TAM 212: Introductory Dynamics

Instructor: John Sanders (jsandr2@illinois.edu)
Teaching Assistant: Conrad Smith (smith72@illinois.edu)
Time/Location: MWF 1:00PM-2:50PM, MEB 135
Start of Term: Monday, June 13, 2016
End of Term: Thursday, August 4, 2016
Website: http://courses.engr.illinois.edu/tam212/
Office Hours: MWF 3:00PM-4:00PM, MEB 353 (or by appt)

Required Text: Online reference material located on the course website

Recommended Texts: For additional guidance, students are highly encouraged to consult the following texts, which are available on reserve at Grainger Engineering Library:


Lectures/Group Worksheets: Attendance at lecture is not strictly required. However, during any given lecture, students may be assigned a written worksheet exercise, to be completed in fixed groups (groups will be assigned via email the first week of class). Each student must submit a completed worksheet at the end of the lecture to receive credit, but only one randomly-chosen worksheet will be scored from each group, and every student in that group will receive that score.

Canceled Lectures: Lecture is canceled on Monday, July 4, in observance of Independence Day.

Homework: Homework will be assigned periodically throughout the semester. There will be two kinds of homework: (i) written homework assignments, and (ii) online assignments through PrairieLearn (https://prairielearn.engr.illinois.edu/). Each assignment will be announced in class.

Group Project: An open-ended group project, designed to give students experience working in teams and applying engineering concepts to real-world problems, will be assigned during the first week of class. The groups will be the same as for the group worksheets. More details to follow.

Exams: There will be one midterm exam and one final exam for this class. Both exams will be paper-based. Students are allowed one calculator and one double-sided 8.5″ × 11″ page of personally-prepared (hand-written or typeset) notes for each exam. The following items are NOT allowed during exams: books, notebooks, personal computers, phones. Use of such items during an exam will result in a zero grade for that exam.

<table>
<thead>
<tr>
<th>Midterm Exam</th>
<th>Friday, July 15</th>
<th>1:00PM-2:50PM</th>
<th>TL 103</th>
</tr>
</thead>
<tbody>
<tr>
<td>Final Exam</td>
<td>Friday, August 5</td>
<td>10:30AM-12:30PM</td>
<td>TBD</td>
</tr>
</tbody>
</table>

Final Grade Calculation: The total score for the course is computed with the following weights:

- Group Worksheets: 10%
- Written Homework: 20%
- Midterm Exam: 15%
- Group Project: 20%
- PrairieLearn Homework: 10%
- Final Exam: 25%
**Final Letter Grades:** The total score $s$ corresponds to final grades as follows. The instructor reserves the right to adjust these values in the students’ favor.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Score Range</th>
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<th>Score Range</th>
<th>Grade</th>
<th>Score Range</th>
<th>Grade</th>
<th>Score Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>$97% \leq s &lt; 97%$</td>
<td>A</td>
<td>$93% \leq s &lt; 97%$</td>
<td>A-</td>
<td>$90% \leq s &lt; 93%$</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B+</td>
<td>$87% \leq s &lt; 90%$</td>
<td>B</td>
<td>$83% \leq s &lt; 87%$</td>
<td>B-</td>
<td>$80% \leq s &lt; 83%$</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C+</td>
<td>$77% \leq s &lt; 80%$</td>
<td>C</td>
<td>$73% \leq s &lt; 77%$</td>
<td>C-</td>
<td>$70% \leq s &lt; 73%$</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D+</td>
<td>$67% \leq s &lt; 70%$</td>
<td>D</td>
<td>$63% \leq s &lt; 67%$</td>
<td>D-</td>
<td>$60% \leq s &lt; 63%$</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>$s &lt; 60%$</td>
<td>F</td>
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</tbody>
</table>

**Bonus Bucks:** The instructor may, at his discretion, award students “Bonus Bucks” for exemplary participation during lecture. Students may redeem each Bonus Buck they have accumulated for +1% on any assignment of their choice, including exams, up to a limit of +5% on any one assignment. Bonus Bucks must be redeemed upon submission of the corresponding assignment (they cannot be applied to past assignments).

**Absences:**

1. Excuses from assessments will only be given in the following circumstances:
   a. Illness.
   b. Personal crisis (e.g., car accident, required court appearance, death of a close relative).
   c. Required attendance at an official UIUC activity (e.g., varsity athletics, band concert).

2. In cases (a) or (b), an official excuse letter is required from a physician or the Dean on Duty, respectively. The letter must be submitted to the instructor within 2 weeks of the due date of the missed assessment, but no later than reading day. In cases of extended or unusual illness, late submission of excuse documentation will be considered.

3. In case (c) an official letter from the designated university official must be submitted to the instructor at least one week prior to the due date of the missed assessment.

4. If you will not be able to take an exam due to illness or any other reason, you must inform your instructor by email at the earliest possible opportunity. For non-emergency absences this notification must be at least one week in advance.

5. Notwithstanding the above, at your instructor’s discretion you may be required to make up any excused work or attend substitute instruction or assessment.

**CARE:** The Center for Academic Resources in Engineering (CARE) provides extra help and tutoring for TAM 212 (http://publish.illinois.edu/engineering-care/).

**Special Accommodations:** To obtain disability-related academic adjustments or accommodations, contact Disability Resources and Educational Services (DRES, http://disability.illinois.edu).

**Academic Integrity, Harassment, and Discrimination:** Academic integrity infractions, harassment, and discrimination of any kind will not be tolerated. See Article 1, Part 4 of the Student Code and the Campus Conduct Policy. Please report any concerns immediately to your instructor.