MIE 100S: DYNAMICS
January – April, 2015

1. Lectures schedule and location

<table>
<thead>
<tr>
<th>Section number</th>
<th>Instructor</th>
<th>Lecture rooms</th>
<th>Office hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEC 01</td>
<td>Edmond Young</td>
<td>T 10:00-11:00 (MC252)</td>
<td>T 1:10-2 pm</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:eyoung@mie.utoronto.ca">eyoung@mie.utoronto.ca</a></td>
<td>W 10:00-11:00 (MC252)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MC 313</td>
<td>F 10:00-11:00 (MC252)</td>
<td></td>
</tr>
<tr>
<td>LEC 02</td>
<td>Craig Simmons</td>
<td>T 10:00-11:00 (MC254)</td>
<td>F 12:10-1 pm</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:simmons@mie.utoronto.ca">simmons@mie.utoronto.ca</a></td>
<td>W 10:00-11:00 (MC254)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MC 221</td>
<td>F 10:00-11:00 (MC254)</td>
<td></td>
</tr>
<tr>
<td>LEC 03</td>
<td>Lidan You</td>
<td>M 3:00 – 4:00 (BA1190)</td>
<td>W 1:10-2 pm</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:youliandan@mie.utoronto.ca">youliandan@mie.utoronto.ca</a></td>
<td>W 3:00 – 4:00 (BA1190)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MC 316</td>
<td>F 3:00 – 4:00 (BA1190)</td>
<td></td>
</tr>
<tr>
<td>LEC 04</td>
<td>Anthony Sinclair</td>
<td>M 3:00 – 4:00 (WB 116)</td>
<td>M 1:10 – 2 pm</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:sinclair@mie.utoronto.ca">sinclair@mie.utoronto.ca</a></td>
<td>W 3:00 – 4:00 (SF1101)</td>
<td></td>
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<tr>
<td></td>
<td>MC 415</td>
<td>F 11:00-12:00 (BA1180)</td>
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<tr>
<td>LEC 05</td>
<td>Anthony Sinclair</td>
<td>M 12:00-1:00 (BA1180)</td>
<td>M 1:10 – 2 pm</td>
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<tr>
<td></td>
<td><a href="mailto:sinclair@mie.utoronto.ca">sinclair@mie.utoronto.ca</a></td>
<td>W 12:00-1:00 (BA 1180)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MC 415</td>
<td>F 2:00 - 3:00 (BA1190)</td>
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<tr>
<td>LEC 06</td>
<td>Pierre Sullivan</td>
<td>M 3:00- 4:00 (GB 120)</td>
<td>R 12:10 -1 pm</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:sullivan@mie.utoronto.ca">sullivan@mie.utoronto.ca</a></td>
<td>W 3:00- 4:00 (MC 252)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MC 225</td>
<td>F 3:00- 4:00 (TZ6)</td>
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</tbody>
</table>

2. Final mark distribution - Quizzes and Tests must be written in pen (not pencil):
Final examination (Type D: aid sheet) 60%
5 Quizzes (closed book) 15%
Midterm test - Feb 24 (Type D: aid sheet) 25% Covers chapters 12-15.3

3. Textbook
Engineering Mechanics, Dynamics
R. C. Hibbeler & Kai Beng Yap
Access to the textbook’s web-site, called MasteringEngineering will NOT be required.

4. Calculator
During the exam, test, and quiz, students must use a non-programmable calculator:
Casio FX-991MS or Sharp EL-520X
5. Course outline and approximate timetable

<table>
<thead>
<tr>
<th>Textbook chapters</th>
<th>Topic</th>
<th>Lecture hours</th>
<th>Starting date*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter 12</td>
<td>Ommit section 12.3 Kinematics of Particles</td>
<td>8 hours</td>
<td>January 5th</td>
</tr>
<tr>
<td>Chapter 13</td>
<td>Ommit section 13.7</td>
<td></td>
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<tr>
<td>Chapter 14</td>
<td>Ommit 14.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chapter 15</td>
<td>Ommit sections 15.4, 15.8 and 15.9 Kinetics of Particles</td>
<td>10 hours</td>
<td>January 22</td>
</tr>
<tr>
<td>Chapter 16</td>
<td>Ommit sections 16.4 and 16.8 Plane Kinematics of Rigid Bodies</td>
<td>5 hours</td>
<td>February 23</td>
</tr>
<tr>
<td>Chapter 17</td>
<td>Ommit pages 410 &amp; 411</td>
<td></td>
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</tr>
<tr>
<td>Chapter 18</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chapter 19</td>
<td>Ommit section 19.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chapter 22</td>
<td>Ommit sections 22.2 &amp; 22.5 Vibrations and Time Response</td>
<td>6 hours</td>
<td>March 27</td>
</tr>
</tbody>
</table>

* Actual starting date may vary among the various lecture sections.

6. Midterm test (Type D: You may bring one 8 ½” x 11” aid sheet)
   Tuesday, February 24th: noon to 2:00 pm.
   Room assignments will be announced on Blackboard closer to the date of the midterm.
   The test will cover material in Chapters 12-15.3. Some of the grades will be assigned for a neat/professional presentation, and for getting your name, student number, and tutorial section correct.

7. Final examination (Type D: You may bring one 8 ½” x 11” aid sheet)
   All material listed above in the course outline will be examinable.

8. Assignments
   There will be no graded assignments in this course. However, sample problems and solutions for each textbook chapter will be posted on the portal.

9. Blackboard website
   The course website can be found through the portal at portal.utoronto.ca
   The course website will have available: contact information for your instructor and teaching assistants; some sample problems and their solutions; midterm room assignments; details on the course outline and any announcements made in class. It will also have your midterm and quiz grades listed. Students will be responsible for checking the course website to ensure that midterm and quiz grades have been recorded accurately.

10. E-mail help: For all emails regarding the course, start your subject with “MIE100 - “.
    For all administrative queries, such as missing a quiz, re-marks on your quiz or midterm test: email mie100-admin@mie.utoronto.ca
    For questions regarding technical course material, you can email your tutorial section TA’s (see e-mail addresses on BlackBoard), or see any one of the TA’s or instructors during office hours.
11. Lecture Attendance: You may attend any of the lectures that you wish as listed in the Table on page 1. However, the instructor may need to restrict attendance to students registered for that Section if the lecture room gets too crowded.

12. Tutorial Attendance: Quizzes will be held in several of the tutorials, as described in items 13 & 14. You must write the quiz in your assigned tutorial Section; otherwise you will be marked absent. Students who must miss a quiz for a good reason must go to the first-year office in GB 160 to fill out a petition. You may NOT write a make-up quiz in another tutorial Section. Quiz grades will be normalized among all 10 tutorial sections. You are welcome to visit a tutorial section other than your own to get extra help. But don’t forget to go to your own tutorial section to write the quizzes. Your TA’s will provide you with their email addresses during the tutorials.

13. Tutorials and Quizzes: At every tutorial, an old quiz or midterm or exam question will be distributed and students will have some time to work on it alone. This is intended to give you lots of practice under exam/test-like conditions. After this initial exercise, you will be free to continue working on that problem or posted assignments with your classmates, and the TAs will be there to help. If there is a clarification needed for a large number of students, a TA will give a small presentation. Halfway into the tutorial, all students should have a firm grasp of the exam question and its solution.

There are 5 quizzes this term. The quizzes are closed book – you may not use any notes or textbooks. Pertinent formulas will be given on the quiz sheet, but you will need to know how to use the formulas! Each quiz will be approximately 20 minutes long, and will commence shortly after the start of your tutorial. Each quiz will be focused on material taught in the past 2-3 weeks, but may have a bit of older material. You must write the quiz in your assigned tutorial section, on the dates shown below. If you must miss a quiz for any legitimate reason, a petition and supporting documents must be submitted to the First-Year Office. Do not submit them to your TA or instructor. Some of the quiz grades will be assigned for presenting your work neatly/professionally, and for getting your name, student number, and tutorial section correct.


You must write the quizzes in your assigned tutorial section

<table>
<thead>
<tr>
<th>Section</th>
<th>Time</th>
<th>Room</th>
<th>Quiz Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>TUT 01</td>
<td>W1-3</td>
<td>BA2145</td>
<td>Jan 14, Jan 28, Feb 11, Mar 11, Mar 25</td>
</tr>
<tr>
<td>TUT 02</td>
<td>R4-6</td>
<td>BA1220</td>
<td>Jan 15, Jan 29, Feb 12, Mar 12, Mar 26</td>
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<tr>
<td>TUT 03</td>
<td>M1-3</td>
<td>SF3202</td>
<td>Jan 12, Jan 26, Feb 9, Mar 9, Mar 23</td>
</tr>
<tr>
<td>TUT 04</td>
<td>W9-11</td>
<td>HA401</td>
<td>Jan 14, Jan 28, Feb 11, Mar 11, Mar 25</td>
</tr>
<tr>
<td>TUT 05</td>
<td>W9-11</td>
<td>HA410</td>
<td>Jan 14, Jan 28, Feb 11, Mar 11, Mar 25</td>
</tr>
<tr>
<td>TUT 06</td>
<td>W9-11</td>
<td>SF3202</td>
<td>Jan 14, Jan 28, Feb 11, Mar 11, Mar 25</td>
</tr>
<tr>
<td>TUT 07</td>
<td>R4-6</td>
<td>SF3202</td>
<td>Jan 15, Jan 29, Feb 12, Mar 12, Mar 26</td>
</tr>
<tr>
<td>TUT 08</td>
<td>W1-3</td>
<td>GB412</td>
<td>Jan 14, Jan 28, Feb 11, Mar 11, Mar 25</td>
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<tr>
<td>TUT 09</td>
<td>M1-3</td>
<td>HA410</td>
<td>Jan 12, Jan 26, Feb 9, Mar 9, Mar 23</td>
</tr>
<tr>
<td>TUT 10</td>
<td>W9-11</td>
<td>BA2175</td>
<td>Jan 14, Jan 28, Feb 11, Mar 11, Mar 25</td>
</tr>
</tbody>
</table>

15. Office hours: You can e-mail TA’s or instructors for guidance, although face-to-face assistance is probably a better way to give a pictorial view of a Dynamics problem. You can attend the office hours of any of the instructors, at the times listed on page 1.