

MIE 100S: DYNAMICS

January – April, 2015

1. Lectures schedule and location

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

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
13th edition in SI units, Pearson, 2013
ISBN 978-981-06-9261-2

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

Textbook chapters	Topic	Lecture hours	Starting date*
Chapter 12 Omit section 12.3	Kinematics of Particles	8 hours	January 5 th
Chapter 13 Omit section 13.7 Chapter 14 Omit 14.4 Chapter 15 Omit sections 15.4, 15.8 and 15.9	Kinetics of Particles	10 hours	January 22
Chapter 16 Omit sections 16.4 and 16.8	Plane Kinematics of Rigid Bodies	5 hours	February 23
Chapter 17 Omit pages 410 & 411 Chapter 18 Chapter 19 Omit section 19.4	Plane Kinetics of Rigid Bodies	9 hours	March 6
Chapter 22 Omit sections 22.2 & 22.5	Vibrations and Time Response	6 hours	March 27

* 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.

14. Tutorial schedule: Tutorials start on **Monday, January 12th, 2015.**

YOU MUST WRITE THE QUIZZES IN YOUR ASSIGNED TUTORIAL SECTION

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

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.