Topics Covered: Ch.15 (1-7), Ch.16 (all), Ch.17 (all), Ch. 33(1-2 & 6-9), Ch.34 (all), and CH.35 (all), Ch.36(all), Ch.38 (1-4 & 6), Ch.39 (1-3 & parts of 8)

<table>
<thead>
<tr>
<th>Week</th>
<th>Starting</th>
<th>Chapter</th>
<th># of Lectures</th>
<th>Assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>6 May</td>
<td>15-Oscillations</td>
<td>3</td>
<td>-none-</td>
</tr>
<tr>
<td>2</td>
<td>13 May</td>
<td>15-Oscillations</td>
<td>3</td>
<td>-none-</td>
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<td></td>
<td></td>
<td>16-Waves-I (waves on a string)</td>
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<td>3</td>
<td>20 May</td>
<td>17-Waves-I and II (Sound)</td>
<td>3</td>
<td>#1</td>
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<tr>
<td>4</td>
<td>27 May</td>
<td>17-Waves-II (sound)</td>
<td>3</td>
<td>#2</td>
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<td></td>
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<td>Monday 21 May: Victoria Day Assignment Due Tue May 22\textsuperscript{th} at 6:00 pm</td>
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<tr>
<td>5</td>
<td>3 June</td>
<td>33-Electromagnetic Waves</td>
<td>3</td>
<td>#3</td>
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<tr>
<td></td>
<td></td>
<td>34-Geometrical Optics</td>
<td></td>
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<tr>
<td>7</td>
<td>10 June</td>
<td>34-Geometrical Optics</td>
<td>3</td>
<td>#4</td>
</tr>
<tr>
<td>8</td>
<td>17 June</td>
<td>34-Geometrical Optics</td>
<td>3</td>
<td>#5</td>
</tr>
<tr>
<td>9</td>
<td>24 June</td>
<td>Midterm week no classes</td>
<td>None</td>
<td></td>
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<td>Test Saturday, June 22, 9:30 – 11:30 am</td>
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<tr>
<td>10</td>
<td>1 July</td>
<td>35-Interference</td>
<td>2</td>
<td>#6</td>
</tr>
</tbody>
</table>
11  8 July  35-Interference  3  #7
            36-Diffraction
            Monday July 1: Canada Day
            Assignment Due Tue July 2 at 6:00 pm

11  15 July  36-Diffraction  3  #8

12  22 July  38-Photons & Matter Waves-I  3  #9

13  29 July  39-Photons & Matter Waves-II  1  #10

Lectures end: July 30th

Tutorials, Assignments and Quizzes

Weekly Assignments: Due on Monday of the week shown at 6:00 pm.
The weekly assignment will consist of about 15 problems, 4 of which (these will be bolded on
ACE) are to be handed in (to the boxes outside PHY 145) by 6:00 pm on the Monday of the week
shown. The assignments will be chosen so that the nominal time required to do them will
not exceed 100 minutes. Only one of these will be graded and the set will be returned the next
tutorial session. (note that the above schedule shows the week that each problem set is due; eg.
Assignment 1 is due at 6:00 pm on the Monday of week 3). Solutions must be laid out properly
and all steps shown, answers underlined and diagrams labelled appropriately. Marks will be
deducted for missing name, ID or Tutorial Section number. Solutions will be discussed in
tutorials and posted on the website after the due date.

Each week’s assignment is discussed during the tutorial. Attempt as many assigned questions as
possible before you come to the problem-solving session. It is only through your individual effort
that you will become proficient at solving problems. There are no laboratories associated with
this course.

Tutorials and Quizzes
A two-hour slot is scheduled on your timetable for tutorials. This is essentially a problem-solving
session. A short quiz will be held during the tutorial. Be sure to bring your textbook to each
problem-solving session. Tutorials begin the week of May 13th.

In order to encourage you to do all the assigned problems and not just the bolded ones, the
quiz question will be chosen from the assigned problems as well most of the time.

The quizzes and assignment are synchronized to, ideally, go over the material covered the week
before. Quizzes are due during the tutorial, the associated assignment, discussed during the
tutorial is due the Monday After.

RETURNING MARKED QUIZZES AND ASSIGNMENTS

Graded quizzes and assignments will ideally be returned the next tutorial session. Due to
logistical considerations these will not be handed back personally, but will likely be
placed in the classroom to be picked up. If you want your quizzes to be handed to you
directly please ensure to inform your TA during the first tutorial.
Please note that

1. It is against University rules to pick up someone else’s assignment or quiz
2. Students who do not wish to pick up their assignment in the fashion described above need to inform the grading TA of their preference ahead of time and make acceptable arrangements with the grading TA for their marked quizzes to be picked up individually or by some other means.

Midterm: Saturday, June 22, 9:30 am – 11:30 am
AIDS: a calculator, and a formula sheet provided by your Instructor

Final Exam: To be arranged by the Registrar’s in August - 2.5 hour duration
Marked by hand (tentative)
AIDS: a calculator, and a formula sheet provided by your Instructor

Students will be expected to show work on their examination booklets to support their choice of answer on the computer marked questions on the term test and on the final exam, when applicable.

Grade: Each student will receive the higher of M1 or M2, where
M1= 0.1 P + 0.1 Q + 0.3 T + 0.5 F
M2= 0.1 P + 0.1 Q + 0.1 T + 0.7 F
And P, Q, T, and F are percentage grades for the problem assignments, tutorial quizzes, term test, and final exam, respectively.

"Physics is the fundamental experimental science. Its purpose is to make sense out of the behaviour of the physical universe. In physics, a phenomenon is examined quantitatively through measurements. The relations among the physical quantities observed in experimentation are expressed with precision and economy in the language of mathematics. When a relation summarizes many experiments with a reliability so great that it can be said to reflect universal behaviour in nature, then it is said to be a “laws” of physics. Happily, the laws of physics are few, and the whole variety of physical phenomena is comprehended in a remarkably small number of fundamental laws.”

Academic Integrity:
In order to maintain a culture of academic integrity, members of the University of Waterloo community are expected to promote honesty, trust, fairness, respect and responsibility. [Check http://www.uwaterloo.ca/academicintegrity/ for more information.]

Grievance:
A student who believes that a decision affecting some aspect of his/her university life has been unfair or unreasonable may have grounds for initiating a grievance. Read Policy 70, Student Petitions and Grievances, Section 4, http://www.adm.uwaterloo.ca/infosec/Policies/policy70.htm. When in doubt please be certain to contact the department’s administrative assistant who will provide further assistance.

Discipline:
A student is expected to know what constitutes academic integrity [check http://www.uwaterloo.ca/academicintegrity/] to avoid committing an academic offence,
and to take responsibility for his/her actions. A student who is unsure whether an action constitutes an offence, or who needs help in learning how to avoid offences (e.g., plagiarism, cheating) or about “rules” for group work/collaboration should seek guidance from the course instructor, academic advisor, or the undergraduate Associate Dean. For information on categories of offences and types of penalties, students should refer to Policy 71, Student Discipline, http://www.adm.uwaterloo.ca/infosec/Policies/policy71.htm. For typical penalties check Guidelines for the Assessment of Penalties, http://www.adm.uwaterloo.ca/infosec/guidelines/penaltyguidelines.htm.

Appeals:
A decision made or penalty imposed under Policy 70 (Student Petitions and Grievances) (other than a petition) or Policy 71 (Student Discipline) may be appealed if there is a ground. A student who believes he/she has a ground for an appeal should refer to Policy 72 (Student Appeals) http://www.adm.uwaterloo.ca/infosec/Policies/policy72.htm.

Note for Students with Disabilities:
The Office for Persons with Disabilities (OPD), located in Needles Hall, Room 1132, collaborates with all academic departments to arrange appropriate accommodations for students with disabilities without compromising the academic integrity of the curriculum. If you require academic accommodations to lessen the impact of your disability, please register with the OPD at the beginning of each academic term.

First year engineering website:
Please consult this website for a host of useful information including Counseling, and extra help sessions. http://www.eng.uwaterloo.ca/~year1web/