



## Physics 102

Spring Semester, 2009-2010

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**Details of the course:**

1. **Text book:** University Physics, by Young and Freedman, 12<sup>th</sup> Edition, Volume 2.

Chapters 21 to 30 (inclusive), with the exception of sections 21.7, 23.5, 24.5, 24.6, 25.6, 26.3, 26.5, 27.7, 27.8, 27.9, 28.8, 29.6, 29.7, 29.8 and 30.6

2. **Assessment:**

There will be two **midterm** examinations (Midterm I and Midterm II) each comprising **20%** and a **final** examination comprising **40%** of the total marks. Besides, there will be **quizzes and homeworks**, together comprising **20%** of the total marks.

3. **Examination format and grading:**

The first midterm examination will consist of 6 problems and 6 multiple-choice conceptual questions, while the second midterm and the final examinations will consist of 8 problems and 8 multiple-choice conceptual questions. For the problems full credit will be awarded *only* to a *complete* solution. Partial credit may be allowed for partially correct answers, but getting the correct value by a wrong method will not deserve any credit. A formula sheet will be provided in all exams. Students wishing to use a formula which does not appear in the provided formula sheet *must* first derive it. The conceptual questions would require merely ticking the best answer.

4. **Quizzes and homeworks:**

- (a) Normally, one quiz from each chapter will be given (time permitting). A quiz will normally consist of two problems and two conceptual type questions, but it may vary.
- (b) Homeworks will be assigned from each chapter and these must be submitted online using the **MasteringPhysics** website (<http://www.masteringphysics.com>) provided by the publishers of the text book. Students should register themselves at this website using the access code which comes with the text book and the MP course ID provided by the instructor. Students should see the instructor and/or his/her teaching assistant, should they encounter any problems in registration.

## 5. End of chapter problems:

Below is a set of selected problems from each chapter. Students are encouraged to solve these problems. Some of these problems can be solved online using **MasteringPhysics** website (<http://www.masteringphysics.com>). A few representative problems will be discussed in lectures and tutorial sessions.

Chapter	End of chapter problems
21	7, 13, 17, 27, 33, 34, 38, 40, 44, 47, 50, 55, 56, 72, 78, 88, 97, 100, 105, 106
22	2, 4, 7, 8, 10, 13, 21, 22, 23, 25, 30, 33, 41
23	1, 2, 5, 7, 8, 9, 10, 15, 18, 21, 28, 32, 35, 37, 40, 42, 53, 60, 68, 74, 81
24	3, 5, 6, 9, 12, 15, 18, 19, 22, 24, 25, 30, 32, 35, 36, 45, 47, 50, 51, 57, 59, 60, 63
25	2, 7, 11, 16, 21, 22, 25, 26, 32, 36, 43, 48, 51, 52, 60, 68, 78, 79
26	4, 6, 7, 11, 13, 14, 17, 20, 21, 22, 24, 28, 38, 40, 41, 42, 43, 44, 46, 47, 48, 59, 61, 62, 65, 72, 82, 84
27	1, 4, 5, 15, 18, 21, 24, 27, 30, 32, 35, 39, 40, 54, 62, 68, 72, 73, 74
28	1, 4, 8, 11, 13, 19, 21, 23, 24, 25, 32, 33, 35, 36, 40, 44, 52, 54, 59, 61, 64, 66, 69, 76
29	1, 4, 5, 6, 9, 15, 16, 19, 20, 21, 22, 25, 28, 31, 33, 34, 35, 36
30	1, 4, 7, 9, 12, 15, 19, 20, 22, 28, 29, 32, 33, 44, 52, 56, 64, 67, 71

## 6. Examination Schedule:

<b>Midterm Examination I</b>	<b>April 7, 2010 (Wednesday) 12:30 PM</b>
<b>Midterm Examination II</b>	<b>May 15, 2010 (Saturday) 12:00 PM</b>
<b>Final Examination</b>	<b>June 8, 2010 (Tuesday) 11:00 AM</b>

## 7. Online Material:

Some material related to the course can be found at

<http://physics.kuniv.edu.kw/phys102> and  
<http://physics.kuniv.edu.kw/~razee/phy102.html>

These sites provide solutions to some of the previous examinations and quizzes as well as a specimen copy of the formula sheet. The sites will be updated after each examination.

## 8. Guidelines to be followed in lecture rooms:

- All mobile phones/pagers must be switched off.
- Food and drinks are not allowed into the lecture rooms.
- Avoid leaving the lecture room in the middle of the lecture. If you do leave, then do not return.
- Attendance will be taken randomly. Poor attendance may lead to appropriate punishments.