

### GENERAL COURSE INFORMATION

**Course Lecturer:** Professor P.K.Aravind ([paravind@wpi.edu](mailto:paravind@wpi.edu)), OH212B, X-5559.

**Course Coordinator:** Professor T.H.Keil ([thkeil@wpi.edu](mailto:thkeil@wpi.edu)), OH105, X-5419.

All questions concerning registration, exam scheduling, absence from classes, and other organizational matters should be addressed to Prof.Keil.

**Conference Instructor:** Each of you has one. He/she will provide you with their contact information at the first conference meeting.

**Lab Coordinator:** Frederick L.Hutson ([flh@wpi.edu](mailto:flh@wpi.edu)), OH217, X-5527.

**Text:** UNIVERSITY PHYSICS with MODERN PHYSICS with MASTERING PHYSICS (12<sup>th</sup> Edition) by H.D.Young and R.A.Freedman, (Addison-Wesley, 2007). (The same text that was used in PH 1110).

**Course coverage:** Selections from Chs.21-29, as explained in Study Guides 1-4.

**Objectives:** The specific objectives you are expected to master are collected together under a link of this name on the Course Webpage. Both the Study Guides and the Calendar will refer to these objectives, so make sure you are familiar with them!

#### Course Webpage:

All information about the course, including this document, can be found on the course webpage at:

<http://www.wpi.edu/Academics/Depts/Physics/Courses/ph1120b08/ph1120b08.html> You can get to this webpage by following the link “Physics Courses Online” on the PH Department homepage.

#### Course organization:

- The course is divided into four parts, each with a **Study Guide** and an **Exam**. Each Study Guide will spell out the material to be covered in one part of the course and each exam will test you on the material in the Study Guide leading up to it. However you should bear in mind that the material in the four study guides is thematically linked, and that the later material builds upon what came before it.
- You are required to do **Homework** regularly and submit it for grading. Homework Assignments can be found towards the end of each Study Guide. There are two types Homework: Mastering Physics assignments (submitted online), due the day of each lecture, except when an Exam is scheduled and Summary Homeworks (submitted in conference), one for each Study Guide.
- There is a **Laboratory** that is part of this course. You must do all the labs and submit all the required lab reports in order to pass the course. **Labs will begin on Thursday, Oct 30.**

**Examinations** are scheduled during regular class hours as follows:

	Date	Secs.1-7,15	Secs.8-14
EXAM 1	Friday, Nov 7	10:00 – 10:50 am	1:00 – 1:50 pm
EXAM 2	Friday, Nov 21	10:00 – 10:50 am	1:00 – 1:50 pm
EXAM 3	Friday, Dec 5	10:00 – 10:50 am	1:00 – 1:50 pm
EXAM 4	Wednesday, Dec 17	10:00 – 10:50 am	1:00 – 1:50 pm

You will be told your exam room before each exam. Occasionally, students may need to miss a scheduled exam. If you notify the course advisor, Prof.Keil, at least twenty-four hours before the exam, there will be no penalty. Without this advance notice, the penalty will be 10% of the exam grade. The penalty will be waived only in exceptional circumstances.

**Grade:** Your course grade will be determined as follows:

Exams (65%) – averaged over 4 exams

Mastering Physics Homework (10%)

Summary Homeworks (5%)

Conference Grade (10%) – to be determined by conference instructor

Lab (10%) – determined by all the lab work you do

**Homework** *Mastering Physics* assignments, to be completed on the web, must be filed by Midnight on the due day. Detailed instructions for doing the *Mastering Physics* assignments can be found in the homework section of Study Guide 1. The four Summary Homeworks will be distributed later and also posted on the course website. The place/date for submission of each of them will be indicated along with them.

**Solutions** to all homework problems will also be posted on the website after the homework due date.

**Study Guides** are your most detailed source of information about the course, outside of lecture. Make sure you understand each of the objectives spelt out in the study guides, and test your understanding by solving as many of the assigned problems as you can. Don't get discouraged if you can't solve some problems, or find yourself getting confused about concepts you thought you understood quite well – that happens to even the best students. Take advantage of your conference instructors and the lecturer in overcoming these difficulties.

**Labs** begin Thursday, Oct 30. The lab schedule will be posted on the door of both the labs rooms, OH208 and OH211, and also on the course webpage. Please look up the schedule to determine the date, time and place of your labs. You should also read the **GROUND RULES** for the labs, which are posted on the lab doors as well as on the course webpage. **Ignorance of these rules cannot be used as an excuse.**

## Helpful tips

- As mentioned earlier, solutions to all homework and practice problems are posted on the course webpage (after the due dates). Study the solutions carefully, as that is one excellent way of preparing for the exams.
- The **Math And Science Help** program (**MASH**) has proven to be an extremely valuable resource for many students. The MASH schedule will be posted on the course webpage and also on the door of the Physics Lounge (OH118).
- The **Physics Clinic/Helpdesk** operates during the day in Olin 118. Physics graduate students will be available to answer your questions and provide assistance. Hours of operation will be posted on the door of Olin 118.
- **Other students** in the class can be an excellent source of help. We encourage you to study and work together in small groups. You should, however, write up the solutions to your homework problems on your own. You should be aware of WPI's policies on Academic Integrity and adhere to them.
- Take advantage of the various links on the course website to enhance your understanding of the course material or to learn more about the history and current applications of the subject.
- Feedback about the course, and how we can improve it, can be given to the course lecturer or course coordinator at any time. These suggestions do not have to wait till the end of term!