


Portland State University - Department of Physics
Physics 202 General Physics Part II: Electricity, Magnetism & Thermodynamics

SYLLABUS Winter2007

Instructor: Bjoern Seipel
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Office hours: **Tuesday and Thursday from 11.30-12.30 at SB2 314**
Text book: **Giambattista Richardson Richardson - College Physics 2nd edition & ARIS (online course management system)**
Full Text (for PH 201,202,203) ISBN 0073222747
or Volume I ISBN 0073256412 (for PH201 only) & ARIS
Volume II ISBN 0073256420 (both volumes needed for PH202 and PH203) & ARIS
To get access to ARIS use this link <http://www.mhhe.com/grr/> and go to the "super site"
and register
To enroll in General Physics 202 use Student Section Code: 373-33-3AA
Web: <http://www.physics.pdx.edu/~bseipel/>
Class: **Tuesday and Thursday, 4.40pm-6.30pm in SB1 #107**

The course covers the basic concepts of mechanics. **We will cover chapters 16-21 and 13-15 of the textbook**

Lecture Notes

1- Electric Charge, Force and Field	CH16
2- Electric Potential	CH17
3- Electric circuits	CH18
4-Magnetism1	CH19
4-Magnetism2	CH20
5- Alternating current	CH21
6 - Fluid	
7 - Thermodynamics – Temperature and Heat	CH13
8 – Thermodynamics – Phases and Phase Change	CH14
9 – Thermodynamics – The Laws of Thermodynamic – Part1 and Part2	CH15

Homework

The homework is meant to **help the students** apply the concepts from the lecture and to review the covered theory. Homework problems will be assigned but will not be graded. The homework should help the students to **prepare for the exams**. Some of the homework problems might also appear in a slightly changed form in the exams. **The solutions will be on hold in PSU's library.**

All Conceptual Questions and Multiple Choice questions at the end of each chapter.
Suggested Problems (Solutions to the problems are on hold in the library):

Quizzes

Besides the homework additional (online) quizzes will be given occasionally. These quizzes can consist of

both conceptual questions and problems and will be graded. The quizzes count are worth 30% of your final grade.

Exams

The course grade is based on the quizzes (30%) three exams (70%). **The best exam of each student is worth 40%, and the two other are worth 35% (2nd best) and 25% of the total grade.** The exams can have both conceptual questions and problems. The exams are **non-comprehensive**, but exam 2 and 3 **may include** general concepts already covered in previous exam.

Exam1 Tuesday January 30th 2006 **4.40pm-6.30pm**
Exam2 Thursday February 22nd 2006 **4.40pm-6.30pm**
Exam3 Tuesday March 20th 2006 **5.30pm-7.20pm**

Allowed is

One piece of paper is allowed with anything **YOU** want to write on it. **Handwritten** on both sides. Format: Letter 8.5 x 11

[Calculator is required!!](#)

Make-up exams will be only given in case of emergencies or illness (with proof) at the end of the term.

Grading Scale

$\geq 90\%$ **A**, 80%-89% **B**, 70%-79% **C**, 60%-69% **D**, $< 59\%$ **F**

Lowest in the range will be a MINUS, highest will be a PLUS

(E.g. 90% = A- and 89% = B+)

For a low scoring exam a curve might be applied

Tutoring

The Skills Enhancement and Tutoring Center (SETC) provides FREE drop in tutoring in Biology, Chemistry, Chinese, French, German, Spanish, Arabic, Russian, Psychology, Physics, Statistics, and Writing. It is a FREE resource available for PSU students sponsored by Student Services Resource Fees and Student Affairs. The SETC has trained undergraduate and graduate tutors and has flexible drop in tutoring hours. The SETC is located in Smith Memorial Student Union (SMSU) in room 425. More information can be found at www.setc.pdx.edu. (Physics: every day from 11:30 - 12:30)