Physics 162 Syllabus: Winter 2007

Instructor: Stanley J. Micklazvina

- Office: Room 142 Willanette Hall
- Demonstration Room: Room 109 Willanette Hall
- Phone: 346-4801 or 346-4757
- Office Hours: 2:00 - 3:00 M,W or by appointment. Call or email
- email: stamm@uoregon.edu
- T.A: Vladamir Tskhveradze vtskhvar@uoregon.edu
  Office: Room 231 Willanette Hall, 346-5086
  Office Hour Tuesday 10:30
- T.A: Anthony Clark aclark@uoregon.edu
  Office: Room 216 Willanette Hall, 346-4770
  Office Hour: ??

Textbook:

Energy Its Use and the Environment Fourth Edition

This course is an introduction to physics principles as they apply to solar and renewable energy and an introduction to direct applications of solar and other alternative energy sources. We will begin by studying energy use, mechanical and thermal energy physics topics, basic electricity, sources of energy, and then focus on applications of direct solar and wind energy conversion systems. We will also look at energy storage and other sources of renewable energy. PHYS 161 and 162 both start by studying basic physics principles before branching into different areas of focus. (PHYS 161 focuses on current popular energy sources and the environmental impact from energy use.)

This is a 4 credit hour course. It includes reading and activity assignments. There are three sources for learning. The lectures use demonstrations to show physics principles and highlight areas from the reading. The homework helps you learn how to juggle numbers and learn to calculate energy usage and savings. The third source is the course homepage with links to information. Active learning is always rewarded in this course.

Course Grading:

1. Homework and Class Lecture Activities Home Lab Exercises 30%

2. 2 Midterm Exams: 20% each

3. Final Exam: 30%

No late homework or reports will be accepted. Late homework will not be accepted due to grading hassles.

The exams will be multiple choice, problem solving and essay.

There is some room for adjustment in the schedule and I will update this site regularly. It is your responsibility to find out what announcements were made and what was discussed in class if you miss a lecture. Please let me know what your interests are and I can try and adjust the course to meet your interest.
Lectures

MWF 9:00–9:50 AM (CRN 24103) or 2:00–2:50 PM (CRN 24102);
100 Willamette Hall
Best use can be made of the text and lectures by reading the text before
coming to lecture. Lecture notes will be available on Blackboard by 8:00 AM
the day of the lecture.

Tutorials

112 Willamette Hall; Tuesdays (9:00 AM lecture) or Thursdays (2:00 PM
lecture)
Tutorials will begin Tuesday, January 16. 10% of your grade will be based
on tutorial attendance as follows: miss none or one = 10%, miss two = 8%,
miss three = 5%, miss four or more = 0%. You may make up for a tutorial
during the same cycle in another session if you have advance permission
from the relevant teaching assistant. A tutorial cannot be made up by
attending a tutorial in the next cycle.

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Instructors

Lectures: Tim Jenkins, Adjunct Assistant Professor of Physics, 346-5649;
tjenkins@darkwing.uoregon.edu
143 Willamette Hall; 11:30 AM–1:00 PM, MWF; or by appointment.

Tutorials: Lawrence (Mick) Davis; ldavis9@uoregon.edu
Nima Dinyari; kdinyari@uoregon.edu
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Text

Blackboard
https://blackboard.uoregon.edu
You should check Blackboard frequently for announcements, course materials, grades, etc. If a class is canceled due to inclement weather or illness it will be announced on Blackboard.