

## COLLEGE PHYSICS II

**Instructor:** Sylvio May, South Engineering 220A  
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**Description:** Physics 212 is the continuation of Physics 211. It covers electromagnetism, light and optics, and modern physics. The course surveys each topic and develops basic understanding.

*This course has been approved for the General Sciences category in general education. Students should expect to meet the following outcomes as a result of this course:*

*Outcome #5: Students will learn to comprehend concepts and methods of inquiry in science and technology, and their application for society.*

*Outcome #6: Students will learn to integrate knowledge and ideas in a coherent and meaningful manner.*

**Prerequisites:** Physics 211 or consent of instructor

**Meetings:** 2:00-2:50 p.m. Monday, Wednesday, Friday in Ladd 107

**Office hours:** 3:00-4:00 p.m. Tuesdays, 11:00-11:50 a.m. Fridays, or by arrangement

**Textbook:** James S. Walker, *Physics, third edition*, (Pearson, Prentice Hall)

**Homework:** LON-CAPA homework assignments for each textbook chapter.

LON-CAPA is located at <http://www.physics.ndsu.nodak.edu/loncapa/index.htm>; login is FirstnameLastname; initial password is PeopleSoft id. For problems with LON-CAPA contact Jeffrey.Hansen@ndsu.edu.

For each solved problem in LON-CAPA the student is responsible to record the corresponding receipt number.

**Timing:**

Time Period	Topic	Chapters
01/10/06-01/29/06	Electricity	19-21
02/02/06-02/26/06	Magnetism	22-24
03/02/06-04/02/06	Light and Optics	25-28
04/11/06-05/04/06	Modern Physics	29-32

**Grading:** Grading will be based on LON-CAPA homework score (140 pts) and best 3 out of 4 exams (3 x 100 pts). From the actual number of points and the maximal number (440) the percentage will be calculated and used to grade according to: 82% -100% A, 66% - 82% B, 50% - 66% C, 34% - 50% D, 0% - 34% F.

**Exams:** Tentative schedule for the 4 exams:

Exam 1	01/31/07 2 p.m.-2:50 p.m.	Chapt. 19-21	100pts
Exam 2	02/28/07 2 p.m.-2:50 p.m.	Chapt. 22-24	100pts
Exam 3	04/04/07 2 p.m.-2:50 p.m.	Chapt. 25-28	100pts
Exam 4 (Final)	05/08/07 8 a.m.-8:50 a.m.	Chapt. 29-32	100pts

No makeup exams will be scheduled. Only the three best grades of the four exams (including the Final) count towards the final grade.

**Readings:** Students are expected to study the appropriate chapters in the textbook, preferably before the corresponding lectures..

**Coursepack:** *Any students with disabilities or other special needs, who need special accommodations in this course are invited to share these concerns or requests with the instructor as soon as possible.*

*All work in this course must be completed in a manner consistent with NDSU University Senate Policy, Section 335: Code of Academic Responsibility and Conduct: <http://www.ndsu.nodak.edu/policy/335.htm>*

*Student Support Services offers free tutoring to NDSU undergraduates who qualify for the program. Applications available at Ceres 319 or contact Barbara.Welk@ndsu.edu or 701.231.8028.*