

COLLEGE PHYSICS II

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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), Chapters 19-32

Homework: 10 LON-CAPA homework problems for each of the 14 textbook chapters, each worth 1 point (maximal score $10 \times 14 = 140$ pts).

LON-CAPA is located at <http://www.physics.ndsu.nodak.edu/loncapa/index.htm>; login is first part of NDSU email address (usually Firstname.Lastname); 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
01/09/08-01/28/08	Electricity	19-21
02/01/08-02/25/08	Magnetism	22-24
02/29/08-04/07/08	Light and Optics	25-28
04/11/08-05/02/08	Modern Physics	29-32

Grading:

Grading will be based on LON-CAPA homework score (max. 140 pts) and best 3 out of 4 exams (max. 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: 83% -100% A, 67% - 83% B, 52% - 67% C, 38% - 52% D, 0% - 38% F.

Exams: Tentative schedule for the 4 exams:

Exam 1	01/30/08 2 p.m.-2:50 p.m. Chapt. 19-21	100pts
Exam 2	02/27/08 2 p.m.-2:50 p.m. Chapt. 22-24	100pts
Exam 3	04/09/08 2 p.m.-2:50 p.m. Chapt. 25-28	100pts
Exam 4 (Final)	05/08/08 1 p.m.-1:50 p.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.