

PHYSICS 127 COURSE INFORMATION

INSTRUCTOR: Prof. Erlend Graf

Office: B-101, Lab A-133

Phone: 632-8173, 632-8069

E-mail: egraf@notes.cc.sunysb.edu

LECTURE: MWF, 11:45 a.m. – 2:45 p.m., in room P-112, Physics.

RECITATION: Conducted as part of the above lecture period.

LABORATORY: Labs will be conducted in rooms A-117 and A-130, room TBA for each lab. Descriptive lab handouts are available on Blackboard in the “Course Documents” folder. Lab notebooks for taking data, plotting graphs and report writing (National Engineering and Science Notebook, #33-610) are available in the bookstore. **There will be no lab meeting on the first day of class.**

TEXT: Giancoli, *Physics for Scientists and Engineers*, 4th ed. (Pearson Prentice Hall)

MAIN TOPICS: The course will cover material presented in Chapters 21 through 31 of the text, plus Chapters 34 and 35. Main topics include electric charges and fields, Gauss’s Law, electric potential, capacitance, electric currents, resistance, DC circuits, magnetic fields, Biot-Savart Law, Ampere’s Law, electromagnetic induction, Faraday’s Law, inductance, electromagnetic oscillations, AC circuits, electromagnetic waves, wave nature of light, interference and diffraction of electromagnetic waves.

HOMEWORK: Assignments will be made each lecture meeting, to be prepared for submission during the following meeting.

EXAMS: Two midterm exams; Friday, July 24 and Friday, August 7. A comprehensive final exam on Wednesday, August 19.

GRADING: The course grade will be based on:

Midterm exams -	25%
Final Exam -	25%
Lab Work -	25%
Recitation -	25%

Note, however, that to pass the course, **a student must have a passing exam average**, no matter what his or her other grades may be.

DISABILITY SUPPORT SERVICES (DSS) STATEMENT:

If you have a physical, psychological, medical or learning disability that may impact your course work, please contact Disability Support Services, ECC (Educational Communications Center) Building, room128, (631) 632-6748. They will determine with you what accommodations, if any, are necessary and appropriate. All information and documentation is confidential.

Students who require assistance during emergency evacuation are encouraged to discuss their needs with their professors and Disability Support Services. For procedures and information go to the following website: <http://www.stonybrook.edu/ehs/fire/disabilities>]

ACADEMIC INTEGRITY STATEMENT:

Each student must pursue his or her academic goals honestly and be personally accountable for all submitted work. Representing another person's work as your own is always wrong. Faculty are required to report any suspected instances of academic dishonesty to the Academic Judiciary. Faculty in the Health Sciences Center (School of Health Technology & Management, Nursing, Social Welfare, Dental Medicine) and School of Medicine are required to follow their school-specific procedures. For more comprehensive information on academic integrity, including categories of academic dishonesty, please refer to the academic judiciary website at <http://www.stonybrook.edu/uaa/academicjudiciary/>

CRITICAL INCIDENT MANAGEMENT:

Stony Brook University expects students to respect the rights, privileges, and property of other people. Faculty are required to report to the Office of Judicial Affairs any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, or inhibits students' ability to learn. Faculty in the HSC Schools and the School of Medicine are required to follow their school-specific procedures.