

## PHYSICS 132 COURSE INFORMATION

**INSTRUCTOR:** Prof. Erlend Graf

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**LECTURE:** MWF, 11:00 – 11:53 a.m. in P-137 Harriman Hall

**RECITATION:** One recitation per week, in your assigned room. Written homework to be turned in every week. Short quizzes to be given on homework.

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

**MAIN TOPICS:** The course will cover material presented in Chapters 21 through 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, geometrical optics, electromagnetic waves, wave nature of light, interference and diffraction of electromagnetic waves.

**HOMEWORK:** Assignments will be made each week, to be prepared for submission during the following week's recitation meeting.

**EXAMS:** Two midterm exams; Friday, October 7 and Friday, November 11, at the usual lecture room and time.  
A comprehensive final exam on Thursday, December 15, 11:15 a.m. – 1:45 p.m., RTBA.

**GRADING:** The course grade will be based on:

Midterm exams - 35%

Final Exam - 35%

Recitation - 30%

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, room 128, (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.