

PHY127 is part of a three-course sequence in calculus-based, introductory-level physics. PHY127 focuses on electromagnetism and covers electrostatics, electricity and electric circuits, magnetism, electromagnetic induction and electromagnetic oscillations. The emphasis is on **understanding fundamental concepts and developing the mathematical formalism to apply them in the solution of problems in electromagnetism**. The two other courses in the sequence are PHY125 and PHY126, which, together, cover mechanics, fluids, waves, thermodynamics, and optics.

Prerequisite: C or higher: PHY 125 or 131 or 141

Corequisite: MAT 126, 132, 142, 171 or AMS 161 or level 7 or higher on math placement exam.

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Textbook Physics for Scientists & Engineers, 5th edition
 Douglas C. Giancoli, Pearson Prentice Hall
 PHY127 will cover chapters 21 to 31, both included.
 Students will need to have access to the Pearson's Mastering platform, which will be used for weekly homework assignments. The Study Access Code students bought for PHY125 will normally be valid for PHY127, depending on the date and conditions of purchase. In some cases, it may be necessary for students to buy a new code.

Lectures Tuesday and Thursday from 8 am to 9:20 am Engineering 145
 First day of class: January 24
 Last day of class: May 5

Recitations Rec. 01: Mon. 9:15 am – 10:10 am Rec. 02: Wed. 9:15 am – 10:10 am
 Rec. 03: Mon. 10:30 am – 11:25 am Rec. 04: Mon. 11:45 am – 12:40 pm
 Rec. 05: Wed. 11:45 am – 12:40 pm
 Start the week of January 31.

Office Hours Mondays (10:30 am to 11:30 am) and Thursdays (10:00 am to 12:00 noon)

Homework Weekly assignments from Pearson's website MasteringPhysics.com,
 due on Mondays at 11:59 pm

Evaluations Weekly quizzes during Recitations
 Two mid-term exams (around February 24 and April 7)
 Final exam (May 17)

Blackboard Used for course announcements, distribution of lecture material, and weekly homework assignments (via Blackboard-linked Pearson's Mastering)

Grades **Numerical grade**
10% Homework; 15% Quizzes
40% Midterm Exams (20% each); 35% Final Exam
5% Dynamic Study Modules (extra credit)

There is **No Curve Grading** in this course

Letter grade

$100 \geq A \geq 90$ $89 \geq A^- \geq 85$
 $84 \geq B^+ \geq 80$ $79 \geq B \geq 75$ $74 \geq B^- \geq 70$
 $69 \geq C^+ \geq 65$ $64 \geq C \geq 55$ $54 \geq C^- \geq 50$
 $49 \geq D \geq 45$ $44 \geq F \geq 0$

Study Tips (Adapted from Giancoli, p. xx)
Before class, read textbook sections to be covered in class; get familiar with vocabulary and notation. Do extra-credit Dynamic Study Module.
Attend all classes, both lectures and recitations. Watch recorded sessions if you couldn't come to class or would like to review some of the material.
After class, read textbook material covered in class, paying attention to main concepts, details and worked-out examples. Do homework problems corresponding to material covered that day in class.

Student Accessibility Support Center

If you have a physical, psychological, medical, or learning disability that may impact your ability to carry out assigned course work, please contact the Student Accessibility Support Center, Stony Brook Union Suite 107, (631)632- 6748, or at sacs@stonybrook.edu. They will determine with you what accommodations, if any, are necessary and appropriate. All information and documentation is confidential.

Academic Integrity

Each student must pursue his or her academic goals honestly and is personally accountable for all submitted work. Representing another person's work as your own is wrong. Faculty are required to report any suspected instances of academic dishonesty to the Academic Judiciary. For more comprehensive information on academic integrity, including categories of academic dishonesty, please refer to the academic integrity website at http://www.stonybrook.edu/commcms/academic_integrity/index.html .

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 University Community Standards any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, or inhibits students' ability to learn. Further information about most academic matters can be found in the Undergraduate Bulletin, the Undergraduate Class Schedule, and the Faculty-Employee Handbook.

Religious Observances

The academic calendar has no religious holidays. See the List of Religious and Other Holidays and other relevant links at http://www.stonybrook.edu/commcms/provost/faculty/handbook/employment/list_of_religious_and_university_holidays#view-s2022

Students will be expected to notify the lecture- and/or recitation-instructor(s) by email, in advance, of their intention to be absent for any religious observance during the Spring 2022 semester. They can discuss with their instructor(s) before then how they will be able to secure the work covered.