**PHYSICS 125 COURSE SYLLABUS, FALL, 2025**

**LECTURE/RECITATION** (R02)**:** Prof. Erlend Graf email: Erlend.Graf@stonybrook.edu

**RECITATION** (R01)**:** Prof. Emilio Mendez email: Emilio.Mendez@stonybrook.edu

**LECTURE:** MWF 8:25 – 9:20 a.m, Melville Library, room E4320.

**RECITATION:** Once per week, day, time and room as listed in the University course

schedule. **Recitations begin during the week of Sept 1.**

**TEXT:** Giancoli, *Physics for Scientists and Engineers*, **4th Ed**. (Pearson

Prentice Hall)

**MAIN TOPICS:** The course will covermaterial presented in Chapters 1 through 12 of the text. Main topics include units, error analysis, vectors, kinematics, dynamics, Newton’s laws and their applications, circular motion, gravitation and planetary motion, work, potential and kinetic energy, power, momentum and collisions, conservation laws, rotational kinematics and dynamics, equilibrium of rigid bodies.

**HOMEWORK:** Assignments will be made each week, to be prepared and submitted during the recitation class of the following week. Homework will be reviewed in recitation, and there may be a weekly quiz in recitation.

**EXAMS:** Two midterm exams; Friday, Oct 17 and Friday, Nov 21, at the usual lecture time and place.

A comprehensive final exam on Wed, Dec 17, 8:15 –10:45 a.m.. Room TBA.

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

Midterm Exams – 33 1/3 %

Final Exam – 33 1/3 %

Recitation – 33 1/3 %

**Student Accessibility Support Center Statement**

If you have a physical, psychological, medical, or learning disability that may impact your course work, please contact the Student Accessibility Support Center, 128 ECC Building, (631) 632-6748, or via e-mail at:  **sasc@stonybrook.edu**. They will determine with you what accommodations are necessary and appropriate. All information and documentation is confidential.

**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 is 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/commcms/academic\_integrity/index.html](https://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. Faculty in the HSC Schools and the School of Medicine are required to follow their school-specific procedures. Further information about most academic matters can be found in the Undergraduate Bulletin, the Undergraduate Class Schedule, and the Faculty-Employee Handbook.