**PHY126 SYLLABUS, FALL,2025**

**LECTURE/**

**RECITATION:** Prof. Erlend Graf

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**RECITATION:** Prof. Vladimir Goldman

(R02, R03, R04) email: [Vladimir.Goldman@stonybrook.edu](mailto:Vladimir.Goldman@stonybrook.edu)

**LECTURE:** TuTh, 8:00 – 9:20 a.m., room 143, Engineering

**RECITATION:** Weekly, in your assigned recitation section.

**No recitations during the first week of classes.**

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

Prentice Hall)

**MAIN TOPICS:** The course will covermaterial presented in Chapters 12 through 20

of the text, plus Chapters 32-34. Main topics include static equilibri-

um, elasticity of materials, properties of fluids, oscillations and wave

motion, temperature, heat, thermal properties of solids, liquids and gases,

first and second laws of thermodynamics, heat engines, geometrical

optics, lenses, optical instruments and the wave nature of light.

**HOMEWORK:** Assignments will be made each week, to be submitted and discussed the following week in recitation.

**EXAMS:** Two midterm exams; Thursday, Oct 23 and Thursday, Nov 20.

A comprehensive final exam on Thursday, Dec 18, 8:15 a.m.-10:45

a.m., details 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.