

ACE Study Resource – PHYS 2325

Syllabus:

1. Visit the following website: <https://info.tamtu.edu/>
2. Input your course (ex: MATH 1314) into the “Search” box and be sure you are in the current term (ex: Spring 2022).
3. Scroll down until you find your specific course (ex: MATH 1314.201) and professor’s name.
4. Click on “Syllabus,” and you are done!

Textbook:

Moebis, W., S.J. Ling, J. Sanny, et al., 2016, University Physics Volume 1, 1st ed., OpenStax, Rice University. <https://openstax.org/details/books/university-physics-volume-1>

Concepts:

- Units and measurements
- Kinematics
- Energy and Momentum
- Elasticity
- Vectors
- Newton’s Laws
- Fixed-Axis Rotation
- Gravitation

Tips and Strategies:

- Read the syllabus before class to be aware of the topics being discussed.
- Write down important exam dates, quiz dates, and homework deadlines to prepare ahead of time.
- Start homework assignments at least a week in advance and exam preparation with 2 weeks in advance.
- Ask the professor for suggested practice problems for every chapter. These will be helpful reviews for exams and for concrete conceptual understanding.
- Create a personal formula sheet and write down important formulas from homework assignments and lecture problems.

Resources:

- **Khan Academy:** [College Physics](#)

Practice and Application:

Below, there is a practice problem to reinforce your knowledge of key course concepts.

1. Find the **momentum** of a 1.00×10^9 kg asteroid heading towards the Earth at 30.0 km/s. Additionally, find the **ratio** of this momentum to the classical momentum.

Disclaimer:

- Please use this document as a supplemental resource. You must follow class instructions and expectations set by your professor.
 - This guide does not substitute your class.
 - This guide does not cover the entire syllabus or course.