Choosing the right physics course for your first semester

Are you thinking of majoring in one of the sciences? If so, then you will very likely take introductory physics while you are at Trinity. The Physics Department offers two levels of introductory physics, and it’s important that you choose the right set of courses to go with your interests and with your major. *In particular it is important that students considering majoring in physics or engineering take Physics-141 in the fall semester of their first year.*

**Who should take Phys-101?**
Physics-101: *Principles of Physics I* is the first of a two-semester algebra-based physics sequence most often taken by students who major in biology, environmental science, or who intend to become a health professional. Majoring in any of the other sciences? Then you should *not* take Phys-101. If Phys-101 is appropriate for you and you are also strong in math, you might want to consider taking Phys-141 instead. Phys-101 is offered every fall, and it is not necessary that you take this course in your first year.

**Who should take Phys-141?**
Physics-141: *Physics I – Mechanics* is a calculus-based physics course required for students majoring in physics, engineering, chemistry, and biochemistry. It is the first in a set of three foundational physics courses that provide a framework for all of the physical sciences, and are prerequisites for other courses both in physics and in engineering. Phys-141 is a collaborative, inquiry-based class with an integrated lab. If you’re taking this class you can expect to spend most of your time thinking, explaining, discussing, and doing, rather than taking notes. *If you are considering majoring in either physics or engineering then you should take Phys-141 in the fall semester of your first year.* If you are planning to be a chemistry or biochemistry major, taking Phys-141 in the first semester will open up opportunities for you to take relevant upper-level physics courses later on.

**What about calculus?**
As an incoming student you will be placed into the appropriate math level based on your score on the online Trinity math placement exam. If you have not yet taken the placement exam then you will be able to do so over orientation.

*Math-131: Calculus I is a co-requisite for Phys-141.* This means that in order to take Phys-141 you must either
- be placed into Math-131 and take it in the same semester as Phys-141,
- be placed out of Math-131 into a higher level of calculus (such as Math-132, 142, or 231), or
- have received credit for a calculus AP exam that exempts you from Math-131

If you have been placed into the Math-125 calculus section then you will **not** be able to take Phys-141 this semester. If you have not yet taken the math placement exam then you may be able to enroll in Phys-141 on a provisional basis, but must meet one of the requirements above by the start of classes in order to remain enrolled.

**What about AP physics credit?**
If you earned a grade of 4 or 5 on the *AP-C Mechanics* exam then you will be granted course credit for Phys-141 and may take Physics II in the spring. However you may choose to enroll in Phys-141 anyway, and forgo AP credit. If you are especially well prepared in physics and are also exempt from both of the first two semesters of calculus as well, then you may request permission to take Physics III this fall, followed by Physics II in the spring.

**Contact us**
If you have *any* questions about introductory physics, other physics courses, physics placement, or the physics major, please don’t hesitate to get in touch with a department member.

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