

Calculus at Holy Cross Fall 2018

Advisory Information

Do you need calculus?

- We recommend taking calculus at Holy Cross only if you are planning to pursue health professions or a major or minor that requires calculus (see below). **If you are only interested in fulfilling a common area requirement, we recommend taking a math course other than calculus, such as Topics in Math (MATH 110) or Statistical Reasoning (MATH 120).**
- Mathematics, economics, physics, and chemistry majors must complete both Calculus 1 and Calculus 2.
- Accounting, biology, and computer science majors must complete Calculus 1.
- Student interested in health professions must complete Calculus 1 and a course in statistics. Students majoring in biology, economics, accounting, psychology, sociology or anthropology should take the statistics course offered by their department. For health professions students in other majors, Math 220 is the appropriate statistics course. Therefore we recommend waiting until you have decided on a major to take statistics.

Which course should I take?

The expected background knowledge for success in Calculus 1 is a solid understanding of algebra and pre-calculus. Success in Calculus 2 requires an understanding of material from Calculus 1 (limits, derivatives and their applications).

- If you did not take calculus in high school and either did not take pre-calculus, or took pre-calculus but struggled, you should consider taking Calculus with Fundamentals (MATH 133). This course is designed for students who need more support as they transition to college-level mathematics. It covers the same material as MATH 135/136, but meets 5 hours per week instead of 3 hours per week. Contact the department chair, Professor Levandosky, for permission.
- If you did well in pre-calculus in high school, or took calculus in high school but don't feel ready to go straight into Calculus 2, then you should take Calculus 1 (MATH 135).
- If you took calculus in high school, did well in it, and feel confident about your understanding of limits, derivatives, and their interpretations and applications, then you may choose to skip Calculus 1 and enroll in Calculus 2 (MATH 136).
- If you earned a 4 or 5 on an AP Calculus exam, you have credit for Calculus 1 and/or Calculus 2:
 - If you earned a score of 4 or 5 on the AP Calculus AB exam (or a 4 or 5 on the AB portion of the BC exam), you have earned credit for Calculus 1 and you can start in Calculus 2 if you need both courses. We strongly recommend starting in Calculus 2 if you have AP credit to do so. You can switch later if it turns out to be too advanced for you.

- If you earned a score of 4 or 5 on the AP Calculus BC exam, you have earned credit for Calculus 2. If you are interested in continuing in mathematics, we recommend taking either Multivariable Calculus (MATH 241) or Algebraic Structures (MATH 243). We recommend MATH 243 for students considering a major in mathematics.

Enrollment

- During enrollment period you will be able to switch calculus sections on STAR. We may be adding seats to some sections during the enrollment period, so if you are not able to get into your desired section right away, keep checking for availability on STAR. If you do not have a seat in a course by August 15, please contact Professor Levandosky, the chair of the Mathematics and Computer Science department, for assistance.
- Add/Drop period ends on September 5. We will however, provided seats are available, allow you to switch from Calculus 2 to Calculus 1, or vice versa, until September 12, if you find that you are struggling in Calculus 2 or that you want to skip Calculus 1.

Textbook and Online Homework Information

- All sections of MATH 133, MATH 134, MATH 135 and MATH 136 will be using *Calculus: Early Transcendentals*, Third Edition, by Jon Rogawski and Colin Adams.
- We will be using WebAssign for online homework assignments. Your instructor may also assign additional written homework to be handed in separately.
- The Holy Cross bookstore will sell the textbook bundled with a WebAssign access code for \$117.50. The access code includes both homework and eBook access for the life of the edition.
- At the beginning of the semester, your calculus instructor will give you a Class Key that will allow you to enroll on WebAssign. You will then be asked to enter your WebAssign access code, or purchase one if you don't already have one.
- If you have already purchased a copy of the textbook elsewhere and need WebAssign access, or don't want a hard copy of the textbook and just want the eBook with WebAssign access, here are additional purchasing options:
 - Single-term access to WebAssign homework only (no eBook): \$51.99
Select this if you already have a hard copy of the text and need homework access for only one semester.
 - Single-term access to homework and eBook: \$87.99
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