

# Math 1172: Calculus II

## Fall 2025

Section 01: TF 12:30–1:45, W 1:00-1:50 Bannow 341

Section 02: TF 2:00–3:15, W 3:00-3:50 Bannow 341

**Instructor** Chris Staecker

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Phone: x3323

Office: Bannow GR17

Office Hours: TF 10:30-12:30, W 10-1, 2-3 or by appointment

Office hours are in my office or by Zoom: <https://fairfield.zoom.us/j/5514910533>

**Course Website** <http://faculty.fairfield.edu/cstaecker/courses/2025f1172/>



**Textbook** Stewart, *Calculus*, 9<sup>th</sup> edition

**Final Exam** Section 01: Tuesday December 16, 11:30am

Section 02: Friday December 12, 3:00pm

### Course Content

Topics include integration by substitution and by parts; areas between curves; volumes of revolution; inverse functions; logarithms and exponential functions; inverse trigonometric functions; indeterminate forms and L'Hospital's rule; improper integrals; and infinite sequences and series, including convergence tests, absolute and conditional convergence, power series, and Taylor series.

### Homework

Homework is due every Wednesday evening. The homework does not need to be submitted during the class meeting, any time before midnight on the due date is acceptable. Assignments are posted at the class website.

Students will get a grade on each assignment based on completeness and correctness of the answers, with partial credit given for wrong answers.

Late homeworks without excuse will lose 1/3 credit for each calendar day.

## **Mastery-based assessment**

### **This is weird so pay attention!**

Most of your grade is based on *topic mastery*. The course material has been broken down into about 25 different specific objectives to master. Each student's progress on each objective will be tracked in a checklist.

Students demonstrate their mastery of each objective by correctly answering questions on quizzes and in-class exams, each of which is clearly labeled as assessing one specific objective.

There is no penalty if a student answers a question incorrectly, but this objective will remain unmastered. The student can try again to master that objective by correctly answering questions on later in-class exams. Each in-class exam will include questions addressing *all* objectives covered so far, but students only need to answer questions covering objectives that they have not yet mastered.

### **Quizzes & mastery opportunities**

Each Friday, a short quiz will be given at the beginning of class. The quiz will be an opportunity for students to earn mastery points on the new items for that week. Each quiz will consist of one question from each new mastery topic covered in the previous week.

Once every two weeks, students can make an appointment with the professor during office hours to attempt an "old" mastery question.

Students will not use calculators or any other electronic gadgetry during quizzes.

### **Dealbreakers**

The most fundamental topics on the list are marked with stars. These are *dealbreakers*. You cannot pass the course unless you get at least 2 points on each of these.

### **In-class Exams**

There will be 2 in-class exams, completed during regularly scheduled class time on October 17 and December 5. There will also be a final exam at the official date and time (see at the very top). Exam makeups or rescheduling will be permitted only in extreme circumstances. If you simply do not show up to an exam without letting me know ahead of time, you probably will not be allowed to retake it.

The in-class exams are simply another chance to check off mastery items. Items which have already been mastered with full credit can be skipped entirely, and if students are fully up to date in their mastery list, the entire exam can be skipped.

Students will not use calculators or any other electronic gadgetry during exams.

### **Final Exam**

The final exam is cumulative, and will be graded traditionally (not "mastery-based"). You must answer all questions, even the ones that you've already checked off of your list. Questions will be similar to our quiz questions, but with more opportunity for partial credit.

Students will not use calculators or any other electronic gadgetry during the final exam.

### **Online submission**

No assignments or tests will be submitted on paper. All work will be submitted online at Gradescope.com. Students will take phone pictures of their work and submit it to Gradescope.

## Office hours

The Professor regards visits to office hours as part of the instruction for this course. Responsible students in this course are expected to visit the Professor occasionally for help with homework and other class material. Class assignments are meant to stretch the abilities of the students, and the Professor expects even the best students to benefit from individual discussion. Students are encouraged to come in small groups if they don't want to come alone.

## Grading

Your course grade will be inspired by an average, with the lowest homework score dropped.

Mastery	60%
Homework	25%
Final Exam	15%

## Should I show work?

The professor already knows the answers to the problems which are assigned, and so you do not need to tell him the answer. You need to demonstrate that you know how to derive the answer. Credit will not be given for answers which are given with no rationale or work shown, except in some rare cases where the problem is done entirely in your head.

## Attendance

Attendance does not directly figure into your grade, so there is no penalty for missing class. Students who miss class are 100% responsible for making sure all assignments are still completed on schedule. The professor is happy to negotiate in case there are good reasons, but these negotiations must be initiated by the student.

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## Counseling services

Fairfield University provides mental health services to support the academic and personal success and well-being of students. Counseling & Psychological Services offers confidential psychological services to help students manage personal challenges that may interfere with your well-being. Counseling & Psychological Services is free for full-time undergraduate students.

For help, contact Counseling and Psychological Services at (203) 254-4000 ext 2146.