

## MATH 242 — CALCULUS II

**Instructor:** Kenny Corea kcorea@hawaii.edu

**Office Hours:** MTWR 3-4p Keller 402E

**Lectures:**

Section	Meeting Time	Location
11-12	TR 1:30-2:45p	Keller 303
13	MWF 9:30-10:20a	Keller 404

**Recitation:**

Section	TA	Recitation		Office Hours	
		Time	Location	Time	Location
11	Arturo Jaime	F 8:30-9:20a	Keller 402	TBD	TBD
12	Arturo Jaime	F 9:30-10:20a	Keller 401	TBD	TBD
13	Saroj Niraula	R 12-12:50p	Keller 403	TBD	TBD

You may attend any TA's office hours, but I encourage you to attend your TA's office hours if possible.

**Course description:** Integration techniques and applications, series and approximations, differential equations.

**Book:** *Calculus*, 8th Edition, by Stewart.

**Calculators:** No.

**Prerequisites:** A grade of C or better in Math 241 or Math 251A, or a grade of B or better in Math 215.

**Course management:** All course announcements, homework assignments, solutions to quizzes/worksheets, etc. will be available on our course webpage:

[https://math.hawaii.edu/~kcorea/courses/spring\\_2024/242/](https://math.hawaii.edu/~kcorea/courses/spring_2024/242/)

**Grades:** Your grade is broken down as follows:

Homework	15%
Worksheets	15%
Quizzes	15%
Exams	45% (3x15%)
Final	25%

Your lowest 15% score out of the first four categories will be dropped. And, the standard letter grade scale will be used.

**Homework:** Written homework will be assigned weekly, and due at the beginning of each week during lecture. No electronic submissions will be accepted. All assignments will be weighed equally.

**Recitations** You will meet weekly with your TA for a discussion hour. Each recitation you will take a 10 minute quiz. The topic of each quiz will be posted on the webpage. Also, you will work on a worksheet that is due at the end of the period. Worksheets and quizzes will be provided for you, you do not need to print them. All quizzes and worksheets are weighed equally.

**Exams:** Attendance is compulsory. There will be four exams, three midterm exams and a final. All exams are cumulative.

Exam	Section 13	Section 11-12
1	Friday 2/9	Thursday 2/8
2	Friday 3/8	Thursday 3/7
3	Friday 4/12	Thursday 4/11

The final for all sections will be Wednesday 5/8 12-2 pm location TBD.

**Make-up Policy:** In general, quizzes, worksheets, and homework assignments **cannot** be turned in late or taken late. Some exceptions exist, these will be left at the discretion of your TA. Examinations **can** be made up with a valid excuse.

**Academic integrity:** Cheating, plagiarism, and academic dishonesty will not be tolerated. You are highly encouraged to work together on your homework, however the work you submit must be your own.

**KOKUA:** I am happy to work with you and the KOKUA Program (Office for Students with Disabilities), if you need course accommodations. For more information visit their webpage <https://hawaii.edu/kokua/>.

**Tentative Schedule:** We will cover chapters 6, 7, 9, and 11 of the Stewart text. The following is a rough timeline of what we are covering each week.

Week	Topic
1	Inverse Functions, Logarithms
2	Exponentials, <i>MLK Jr. Day</i>
3	Inverse Trigonometric Functions
4	Indeterminate Forms and L'Hôpital's Rule, Integration by Parts
5	Trigonometric Integrals, Trigonometric Substitution, <b>Exam 1</b>
6	Partial Fractions, Approximate Integration
7	Improper Integrals, <i>President's Day</i>
8	Sequences and Series
9	Integral Test, Comparison Test, <b>Exam 2</b>
10	Alternating Series
11	<i>Spring Break</i>
12	Ratio and Root Test, <i>Kuhio Day, Good Friday</i>
13	Power Series and Representations
14	Taylor and Maclaurin Series, Applications. <b>Exam 3</b>
15	Separable, First-Order Linear
16	Euler's Method, Direction Fields, Modeling
17	Exponential growth
18	<b>Finals Week</b>