Instructor: Christy Hazel   **Office Hours:** Wednesdays TBA
Email: chazel@uoregon.edu   Thursdays TBA
Office: Fenton 305   & by appointment

Basic information:

- **Class meetings:** 1:00-1:50pm MTWF in Deady 102

- **Class materials:**
    - **Text:** *OpenStax Calculus*, Volumes I and II. The textbooks are available online for free and can be found at <https://openstax.org/subjects/math>.
    - **Calculator:** Calculators will not be permitted on the quizzes or exams. You do not need to purchase a calculator for this course.
    - **iClicker:** Each student is required to have an iClicker by Wednesday of Week 1.

Prerequisites and Expectations: All students enrolled in this course are expected to . . .

- Have taken and passed (with a C− or higher) Math 251. In addition to 251, students should be very comfortable with the material from Math 111 and Math 112 (topics such as exponential, logarithmic, and trigonometric functions, graphing, domain/range, etc.).

- Attend and participate in class meetings.

- Start homework assignments as soon as possible and seek help from the instructor when needed.

Course Goals/Objectives: A successful student in this course should be able to model and solve a wide class of problems that can be answered by calculating an appropriate integral. The steps toward this goal are:

- *Vol. 1, Ch. 4, Sec.10*: Short review of derivatives and practice with antiderivatives.

- *Vol. 2, Ch. 1*: Introduction of definite and indefinite integrals, beginning with Riemann sums and the Fundamental Theorem of Calculus, followed by the integration technique of substitution.

- *Vol. 2, Ch. 2*: Applications of integrals to geometry and physics, including areas of enclosed regions, volumes of solids, average values, centers of mass, centroids, force, and work.

- *Vol. 2, Ch. 3*: Improper integrals and more integration techniques: integration by parts, trigonometric substitution, partial fractions.

- *Vol. 2, Ch. 4*: Introduction to differential equations. This will include modeling, separable equations, exponential growth/decay, and logistics equations.

Grading: Course grades[1] are weighted according to the following scheme.

Homework	20%
iClicker Problems	2%
Quizzes	15%
Midterm Exams (2)	30% (15% each)
Final Exam	33%

Standard grade assignments will be made (e.g. grades in the 80% to 90% range will be B's, those in the 70% to 80% range are C's, etc.) Plus and minus grades will be awarded in the upper and lower 2% of a bracket.[2]

Homework: Your weekly homework assignments will be a combination of online and written assignments. While assignments may vary in point totals, each assignment will be weighted equally.

- **Online Homework:** Online assignments will be through an online system call "WebWork". Your assignments can be found at http://webwork.uoregon.edu. After clicking the link "Math252-23705", you will need to sign in using your Duck ID. WebWork assignments will be due **every Thursday at 11:59pm** beginning **Thursday of Week 1**.

- **Written Homework:** Written homework will be due **every Friday at at the beginning of class** beginning **Friday of Week 1**. I will pass out the new assignment each Friday after the quiz. I will also post a copy of the packet on Canvas in case you need to print another copy.

- **No late work will be accepted.** I do understand issues such as illness, overwork, oversleeping etc. occur, so *your lowest homework assignment will be dropped*. There are a total of 10 weekly assignments, and the best 9 of these will contribute to your final homework grade.

Quizzes: On every Friday, **beginning Friday of Week 1**, when we don't have a midterm, we will have a 20 minute quiz.

- **Material Covered:** The quiz will always be over the material covered on the most recent homework assignment.

- **Permitted materials:** You are allowed to use a writing utensil and an eraser during the quizzes. You will not be permitted a calculator, cell phone, or any other computing device.

- **No make-up quizzes will be offered.** Instead, *your lowest quiz grade will be dropped.* There will be a total of 8 quizzes, and the best 7 of these will contribute to your quiz grade.

---

[1]A student who achieves a D or F on all of the exams may be eligible for a maximum grade of D.

[2]I reserve the right to apply a course adjustment to grades at the end of the term.

iClicker Questions: Throughout each lecture, we will have iClicker questions.

- **Grading:** Each question will be worth two points, and you get full points just for answering the question. If you get the correct answer, you will get one extra credit point. (So possible scores are 0/2 (don't answer), 2/2 (answer incorrectly), and 3/2 (answer correctly).)

- **Dates:** Students must have a registered iClicker by **Wednesday of Week 1**. You can register your iClicker on Canvas. It is your responsibility to bring your iClicker to each lecture and to make sure it has proper battery power.

Midterm and Final Exams: There will two 50-minute, in-class midterm exams. There will be one cumulative, two-hour final exam.

- **Dates/times:** The midterm exams will take place in class on **Friday, January 31** (Week 4) and **Friday, February 21** (Week 7). The final will take place on **Wednesday, March 18** (Week 11) at 2:45pm.

- **Permitted materials:** You are allowed to bring a writing utensil and an eraser to the exams. Scratch paper will be provided. You will not be permitted a calculator, cell phone, or any other computing device.

- **No make-up exams will be offered**. If you have a documented circumstance and plan to miss an exam, you must make arrangements with me as far in advance as possible.

Student Conduct: Violations of the student conduct code results in the incident being included on your student conduct record as well as a failing grade on any coursework related to the violation or simply a failing grade in the course. **The University of Oregon requires all instances of cheating be reported, no matter how small.** Cheating includes, but is not limited to:

- Looking at another student's exam during a test.

- Copying the work of another person (student or otherwise) and submitting it as your own.

- Using any materials except those explicitly approved during a test-taking situation.

- Resubmitting graded work that was altered after being returned.

- Copying answers from the internet and turning them in as your own. This includes copying steps from an integral calculator such as wolframalpha.

For a list of other descriptions of cheating, see the Student Conduct Code.

More about WebWork:

- **Showing Work**: When working on your online assignment, you should have scratch paper available and neatly write out your thought process in solving the problem. While WebWork does not grade you on this process, writing it out carefully will train you in the skills you need. It will help you track down mistakes, and it will help me track down mistakes when you ask for my help. If you ask me a question about a homework problem in office hours, the first thing I will do is ask you to show me your work.

- **Getting Help:** If you have a question about a homework problem, one excellent resource is the "Email instructor" button at the bottom of the WebWork screen. Clicking on that and typing a short message about what you've tried on the problem will help me diagnose the issue you're having.

  - *What not to do*: Don't just send me a vague message such as: "I'm confused", "I don't get this problem", or "It says I'm wrong". On most problems, it is impossible for me to figure out what you did to get the answer you have, and WebWork will only show me the answer that you inputted. My response to such an email will always be: "What ideas do you have for this problem?", or "What steps did you do to get this answer?".

  - *What to do*: Instead, **do** send me a message stating what steps you took to solve the problem. That way, I can email you back and let you know what went wrong and give guidance on how to fix it. The more information you give, the more likely it is that you will receive a quick and helpful response. You are welcome to send me pictures of your work.

  - *Warning*: If you email me after 7pm, it is likely that I will not get back to you until the following morning. Start your homework early to ensure you get the help that you need.

Accessibility: For those of you who are currently registered with Accessible Education Center for a documented disability, please present your paperwork to me during the first week of the term (or earlier) so that we can design a plan for you. Those of you with a disability (or who might) but are not registered with AEC should contact them as soon as possible. It is much more likely that measures can be taken to provide adequate special accommodation if the organization is done through AEC. I have attempted to provide documents that are accessible. Please let me know if you need additional accommodations.

Sexual Violence: I am a student-directed employee. For information about my reporting obligations as an employee, please see Employee Reporting Obligations. Students experiencing any form of prohibited discrimination or harassment, including sex or gender based violence, may seek information on safe.uoregon.edu, respect.uoregon.edu, titleix.uoregon.edu, or aaeo.uoregon.edu or contact the non-confidential Title IX office (541-346-8136), AAEO office (541-346-3123), or Dean of Students offices (541-346-3216), or call the 24-7 hotline 541-346-SAFE for help. I am also a mandatory reporter of child abuse. Please find more information at Mandatory Reporting of Child Abuse and Neglect.

Tentative Weekly Schedule:

KEY: WW=WebWork Assignment Due, WA=Written Assignment Due, Q=Quiz

Week	Sections to cover	Weekly Tasks	Day	Daily Tasks/Assignments Due
1	Vol. 1: 4.10, Vol. 2: 1.1, 1.2	Read syllabus, login to Canvas and WebWork	M	Attend first class meeting
			W	**Must have an iClicker by today**
			R	WW
			F	WA, Q
2	1.3, 1.4, 1.5		R	WW
			F	WA, Q
3	1.5-1.7, 2.1		M	No classes for MLK Jr. Day
			R	WW
			F	WA, Q
4	2.2	Study for Exam 1	R	WW
			F	WA, Exam 1
5	2.3, 2.5, 2.6		R	WW
			F	WA,Q
6	2.6, 2.8, 3.1		R	WW
			F	WA, Q
7	3.2-3.4, 3.7	Study for Exam 2	R	WW
			F	WA, Exam 2
			Su	Last day to drop
8	4.1, 4.2		R	WW
			F	WA, Q
9	4.3, 4.4		R	WW
			F	WA, Q
10	Catch-up	Complete course evaluations	R	WW
			F	WA, Q
11	—		W	**FINAL EXAM at 2:45pm**