

Professor: Charles Cusack**Office:** VanderWerf 217B**Email:** cusack@hope.edu**Class time/Location:**

Section 01	Section 02
MWF @ 8:30-9:20 am in SCICTR 1128	MWF @ 9:30-10:20 am in SCICTR 1128
T @ 8:00-9:20 am in SCICTR 1000	T @ 9:30-10:50 am in SCICTR 1000

Attendance: is expected, and it is your responsibility to determine what you missed if you skip class. Quizzes/tests may not be made up unless you have permission ahead of time.

Course website: <https://courses202308.hope.edu/course/view.php?id=1840>

Textbook: *APEX Calculus Online:* <https://opentext.uleth.ca/apex-standard/apex-calculus.html>

Office Hours: In my office on MWF 1:00-1:50pm, or by appointment. If my official office hours do not work for you, please send me an email with *several of your available times* and I will send a Google Calendar invitation, or you can send me a Google Calendar invitation for a time that works for you (but look at [my calendar](#) first to make sure it works for me).

Additional Help: Besides seeking help from me or your classmates, help for this course is available from the Academic Success Center. They run the *Math Lab* several evenings a week and provide *tutors*. For more details, go to <https://hope.edu/offices/academic-success-center/>.

Course Coverage: According to the course catalog, "Topics covered include techniques of integration, applications of the integration, sequences, infinite series, power series, introduction to differential equations, and polar coordinates." This corresponds to Chapters 6, 7, parts of 8 and 9, and 10 (plus 4.5) in the textbook. We will start by exploring various *techniques of integration* (6). We will then move to a completely different topic: *sequences and series* (10, 4.5). We will then explore *applications of integration* (7). We will end the course by discussing *differential equations* (8) and *polar coordinates* (9.4-9.5).

Program Learning Outcomes:

- Introduced to Proficiency in Algebra
- Introduced to Proficiency in Analysis
- Reinforce Proficiency in Mathematical Modeling
- Introduced to Mathematical Writing
- Introduced to Problem Solving and Critical Thinking

General Education Learning Outcomes (Anchor Plan): N/A (not a gen-ed course)

Assignments and Grading: Grades will be based on the chart to the right. Assignments in each category will be equally weighted. The final grade will be determined according to the following scale (with grades rounded down at .49 and up at .5):

A (93-100), A- (90-92), B+ (87-89), B (83-86), B- (80-82), C+ (77-79), C (73-76), C- (70-72), D+ (67-69), D (63-66), D- (60-62), F (0-59).

Category	Percent
Semester Exams (3)	30%
Final Exam	20%
WebWork	20%
Quizzes	20%
Writing Assignments	10%

All **exams** and **quizzes** must be taken when they are scheduled unless you have obtained permission from me ahead of time. See the schedule for the tentative dates of all quizzes and exams. Since solutions to **WebWork** assignments are posted immediately after the deadlines, you will not be able to get extensions on these, so please pay attention to the deadlines and make sure you complete them on time. More details about the **writing assignment(s)** will be provided later.

Colloquium Attendance: You are required to attend at least ONE approved math/stats events outside of class. Approved events will include colloquium talks sponsored by the Department of Mathematics and Statistics. You can also fulfill the requirement by participating in approved math/stats competitions and conferences. For colloquium talks you will complete and turn in an attendance card at the end of the event. Any student who does not complete this requirement before the end of the semester will receive a 1/3 of a letter final grade reduction. For example, a final grade of A- will be reduced to B+, a final grade of C will be reduced to a C-, if this requirement is not met. Events will be scheduled at a variety of times.

How to succeed:

- *Before* each class period, you should
 1. **Read** the assigned section(s) of the textbook. As you are doing so, you should watch the **videos** that are embedded in the textbook. Notice that you can change the speed of the playback—I often watch them at 1.5x speed to save some time.
 2. Take the **WebWork Reading Quiz** (if there is one). These are due before class. You get unlimited attempts and your grade is the highest grade you receive. Answers are available immediately after these quizzes, so if you forget to take one you will not be able to make it up.
 3. Prepare a **list of questions** you have about the material.
 4. If there is a quiz or test during the next class, study for it.
- *During* class, you should be there! In other words, attend every class. When in class, do not be afraid to ask questions. We will spend the bulk of our time working out examples. The key is to *actively participate* during class.
- *After* class, do the **WebWork** assignment (these are graded) and the *suggested exercises* from the textbook (these are not graded, but answers are available in the book). Most of the problems on the **quizzes** will be based directly on the suggested exercises (i.e. the problems will be taken directly from the suggested exercises, or will be slight modifications of suggested exercises).

College mandated stuff that is on every syllabus:

Read it here: <https://cusack.hope.edu/Teaching/?page=collegePolicies>