Course: MA 121: Calculus I   **Office:** Davis Science Center 205

Professor: Nicholas Owad   **Email:** nick.owad@colby.edu

Office Hours: MTW 2:00 - 4:00 and by appointment.

If you are unable to attend these hours, please let me know and we will find a time that does.

Section	Days	Times	Location
A	MTWF	9:00 - 9:50	LOVE 303
C	MTWF	12:00 - 12:50	LOVE 303

Course Description and Prerequisites: Calculus is the result of centuries of intellectual effort to understand and quantify change, such as the position of a moving object or the shape of a curve. Competent users of calculus understand its intellectual structure sufficiently to apply its ideas to a variety of intellectual pursuits. Topics include differential and integral calculus of one variable: limits and continuity; differentiation and its applications, antiderivatives, the definite integral and its applications; exponential, logarithmic, and trigonometric functions. Prerequisite: New first-year students must complete the mathematics placement questionnaire.

Course Learning Outcomes: This course should prepare you to successfully accomplish the following.

- Accurately and efficiently perform the computations of Calculus.
- Modeling the world and solving problems across disciplines.
- Understand the derivative and integral both as theoretical objects and as problem solving tools.
- Provide clear, complete, and correct written solutions to a range of problems.

Course Text: *CALCULUS: SINGLE VARIABLE, 6th edition*, by HUGHES-HALLETT. You are expected to read the sections assigned before coming to class. Any additional written material needed for this class will be provided in class or via Moodle.

Exams: Two major exams and a cumulative final exam will be given. Locations and exact times TBD. The tentative dates for the exam and final are:

- **Exam 1** - Wednesday, March 11 Evening exam
- **Exam 2** - Wednesday, April 15, Evening exam
- **Final Exam** - Saturday, May 16, 6:00 PM - 9:00 PM

Exams: (Continued). Each student is expected to take tests at the scheduled times. Any conflicts, problems or emergencies will be handled on an individual basis. If you must miss an exam it is your responsibility to notify me prior to the exam. I reserve the right to determine what is a valid excuse.

Grading Breakdown:

Exams	400
Final Exam	300
Quizzes	100
Homework	100
Reading Checks	50
Class Participation	50
Total	1000

Quizzes: (Five quizzes, 20 points each) Quizzes will be given in class and usually take no more than 10 minutes. Quizzes will reflect the problems from the homework and serve as a check up for how one is doing in the course. If you find yourself struggling with the quizzes, please come talk to me and get some help.

Homework: (11 homeworks, 10 points each, lowest score dropped) Homework is primarily assigned from your textbook and due on Wednesdays at 3:00 pm in my office, expect for Tuesday, November 26th.

Reading Checks: (17+ reading checks, three points each, unannounced) Reading a mathematical text is a challenging job when one first begins studying math. To encourage you to put in the proper amount of effort required to achieve this, small assignments will be assigned daily. These may be required to be handed in or a small reading check will be given. To succeed, read the section(s) that will be covered in class *before* that class, and work through the assigned problems to prepare for the class.

Resources: If you find yourself having difficulties in any way, I am your first resource. Please come to my office hours or make an appointment to meet with me, preferably via email. Classmates are a valuable study aid also. Homework groups are encouraged. Your class dean and advisers are also there to help you succeed. Please use these resources if you need any help understanding the material, assignments, or to prepare for quizzes and tests.

Note to students with disabilities: At Colby, we value disability as diversity and are eager to learn more about how you learn best. If you have accommodation letters, please set up a time with me to discuss how to best implement those accommodations. If you need to access letters or learn more about accommodations, contact Kate Mcalughlin at kmclaugh@colby.edu

Class Participation: One does not learn math by watching someone else do math. Participation during class is another way to check that everyone is taking an active role in the learning process. Coming to the board and solving a problem in front of the class is the easiest way to fulfill this requirement. But answering questions and asking questions is important as well.

Calculator: Calculators are allowed on quizzes and tests. TI-83, 84, 85 are the most common calculators. No calculators with computer algebra system (CAS) are allowed. Check with me if you are unsure if your calculator is allowed. No cellphones, tablets, or smart-watches are allowed.

Email: Email is the best way to get in touch with me. Proper email etiquette is expected of any students wishing to have their emails read and responded to. There should be a descriptive subject, a salutation, a body, and a closing, using proper grammar. I also reserve the right to not answer emails in the evenings and weekends.