



NORTHWEST FLORIDA STATE COLLEGE

MAC 2311 Calculus 1, 4 Credit Hours – Spring 2026

In Person – Spring - 2026

Course Name: Calculus I

Course Number: MAC 2311

Section (CRN): 20862

Credit Hours: 4

Instructor Name: Ramses Diaz

Instructor Office Location: (DS - 501) / 217

Instructor Email: diazr3@nwfsc.edu

Catalog Description

This is the first course in a three-course sequence. The course covers the following: limits and continuity, rules of differentiation, chain rule, derivatives of trigonometric, inverse trigonometric, logarithmic, and exponential functions, applications of derivatives to curve sketching, L'Hopital's Rule, indeterminate forms, and maxima/minima problems, mean value theorem, Rolle's theorem, definite and indefinite integrals, Fundamental Theorem of Integral Calculus, area, and applications of integrals.

Student Learning Outcomes

1. The student will evaluate and interpret the meaning of limits and demonstrate an understanding of the concept of continuity.
2. The student will evaluate derivatives of functions.
3. The student will evaluate integrals of functions.
4. The student will use the methods of calculus to locate and define intervals where functions are increasing and decreasing, intervals where functions are concave up or concave down, and to locate extrema.
5. The student will create and apply appropriate mathematical models to solve application problems.
6. The student will identify where key theorems such as the Intermediate Value Theorem, the Mean Value Theorem, the Fundamental Theorems of Calculus I and II apply and apply them.

Prerequisites

Completion of MAC 1140 and MAC 1114 with a grade of "C" or better or equivalent; or appropriate placement score.

Textbook

Calculus, Early Transcendental Functions, 8th ed. By Larson, Edwards.

Calculator Policy

Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended.

Class Attendance

Students who stop attending class or are not able to pass the course due to attendance expectations stated in the syllabus may receive a failing grade, which may impact the receipt of federal aid in subsequent courses. Students traveling for College-approved activities will not be penalized academically but will be responsible for missed work.

Attendance Confirmation

Active participation and academic engagement are expectations of enrollment in this course. Faculty confirm each student's attendance in class after the schedule adjustment period ends. Students who have not attended class or otherwise engaged academically in the course through the submission of an academic assignment or through participation in a curricular activity may be withdrawn from the course for nonattendance.

Students who are withdrawn for nonattendance or nonparticipation early in the course may request to be reinstated in the course by contacting their instructor by email. Reinstatement in the course is at the instructor's discretion during the first three weeks of class and is not guaranteed. Reinstatement requests occurring after this three-week period may be submitted to the instructor for consideration; however, additional administrative approval will be required to grant the reinstatement. If you are withdrawn from a course due to nonattendance and are not granted reinstatement in the course, please contact a Student Success Navigator for assistance.

- A. Students are expected to attend all of their scheduled classes, as attendance is one of the strongest predictors of success.
- B. Because this is a pre-professional program, students are expected to demonstrate the same professionalism in the classroom as is expected in the workplace.
- C. Students are expected to participate regularly in this class.
- D. This class may involve frequent class discussions and group work. Students will neither benefit from these activities nor contribute to the class as a whole if frequently absent. Therefore, 3 absences may result in the penalty of zero points in the participation element of the final course grade. Please note that your instructor may drop students who have 3 consecutive absences.

Classroom Conduct

The instructor would like to welcome all students into an environment that creates a sense of community, pride, courtesy and respect; we are all here to work cooperatively and to learn together. In order to create a smooth and harmonious learning environment, please make every attempt to come to all the class sessions, to come to class on time, and to stay until the end of the class session unless you previously have informed your instructor that you must leave early. There might be a time when you unavoidably arrive late for class, we ask you to please come into the virtual classroom and keep muted your device.

Once the class session has begun, please keep muted all microphones and devices. If you miss a class meeting for any reason, you are responsible for all material discussed, for announcements made in your absence, and for acquiring any materials that may have been distributed in class. You are responsible for contacting the instructor during the instructor's office hours. You are encouraged to ask questions in class either by typing in the Chat Room or by raising the hand, but that is also important that we are all able to stay focused on the class discussion. For this reason, only one person in the class at a time should be speaking. The NWFSC Students' Rights and Responsibilities Handbook describes students' appropriate and inappropriate behaviors, along with their consequences. Additionally, please be aware that cheating, plagiarism, and disruptive behavior are not tolerated and can result in serious consequences such as failure of a course or dismissal from the college. For more information, go to: Student Handbook - Northwest Florida State College - Acalog ACMS™ (nwfsc.edu)

Grading Scheme and Procedures

You will achieve the course objectives through interactive lecture, in class practice problems, class participation, homework assignments, and assessments. The grade for this course will be based on homework, five equally weighted exams, and a Final Exam.

Assessment	Percent of Final Grade
Homework	10%
4 Exams	70%
Final Exam	20%
Total	100%

Average of 90 - 100%	A
Average of 80 – 89.9%	B
Average of 70 – 79.9%	C
Average of 60 – 69.9%	D
Average below 60%	F

$$Grade = 0.7 \cdot \frac{Q1 + Q2 + Q3 + Q4}{7} + 0.2 \cdot Final + 0.1 \cdot Homework$$

Incomplete Grades

At the discretion of the instructor, an incomplete grade (“I”) may be awarded when the student is unable to finish the required work because of unforeseen extenuating circumstances such as illness or TDY assignment. To receive an “I” grade, the student must have successfully completed a significant portion of the required coursework and be able to finish the remaining work without attending class. An “I” grade will automatically convert to a grade of “F” if the student does not complete the remainder of the coursework by the established deadline.

Make-up Work

If a student misses an exam, the final exam grade will be used to replace this grade. For any further missing exams, the grade will be zero. **There will not be any make-ups.**

Instructor Communication

Email is the official communication medium of the College. Please check College email regularly for any class and College notifications. Email will be used at times to make announcements or update assignment due dates. Students should check their email frequently. The Professor's email will be checked every day of the week. Responses will be given within 24 hours. You can also reach your professor through your lecture.

Technical Skills and Specialized Technology

All instructional content and interaction take place over the Internet. In addition to baseline word processing skills and sending/receiving email with attachments, students will be expected to search the Internet and upload/download files. This class will be delivered by remote instruction. To participate in the class remotely, you will need access to a computer with speakers. A smartphone can be used, but you may find it difficult to read and follow the lessons.

In addition, students may need one or more of the following resources:

- Adobe Acrobat Reader
- PowerPoint Viewer
- Windows Media Player
- QuickTime Player
- Adobe Flash Player
- Zoom
- Webcam

Electronic Devices

Electronic devices must not distract from learning. Courtesy to the professor and other students requires that phones be on vibrate or silent mode during class. No student should initiate conversations, including texts, during class activities. Use of electronic communication devices during examinations or other graded activities may constitute grounds for disciplinary action; such devices must be completely out of sight during exams or other assessments. Where emergency or employment situations require access to electronic communication services, arrangements may be made in advance with the instructor.

Put your cell phone away on "silent-mode". Cell phones, smart phones, iPod, and other similar devices are not allowed to be used as calculator during class time and Tests.

This course is in person. Students must provide their own device(s) with which to access and complete this class in person. In addition to baseline word processing skills and sending/receiving email with attachments, students will be expected to search the Internet and upload/download files. If you encounter any technology challenges using course resources in the Learning Management System, email the Center for Innovative Teaching and Learning at online@nwfsc.edu or call 850-729-6464.

Lecture Recordings

Students may, without prior notice, record video or audio of a class lecture for a class in which the student is enrolled for their own personal educational use. A class lecture is defined as a formal or methodical oral presentation as part of a college course intended to present information or teach about a particular subject. Recording class activities other than class lectures is not permitted. Except as detailed in the Catalog, recordings may not be published or shared without the written consent of the faculty member. To read and fully understand your rights and responsibilities when recording, visit the Catalog.

Emergency College Closure

In the event of unusual or extraordinary circumstances, the schedule, requirements, and procedures in this course are subject to change. If the College closes for inclement weather or other emergency, any exams, presentations, or assignments previously scheduled during the closure period will automatically be rescheduled for the first regular class meeting held once the college re-opens. If changes to graded activities are required, students will not be penalized as a result of the adjustments but will be responsible for meeting revised deadlines and course requirements.

Academic Continuity Plan

Northwest Florida State College is dedicated to protecting the health and wellbeing of its students, staff, and faculty. The College is dedicated to working with faculty and students to ensure timely course and program completion during emergencies. In the event of a College closure, the format of this course may be modified to enable completion of the course through other means, including but not limited to online course delivery through online classrooms. Check your RaiderNet College email and LMS classroom online for any updates.

Student Rights, Responsibilities, and Academic Integrity

Students are responsible for adherence to all college policies and procedures, including those related to academic freedom, cheating, classroom conduct, computer/network/email use and other items included in the *Northwest Florida State College Catalog and Student Handbook*. Students should be familiar with the rights and responsibilities detailed in the current *Northwest Florida State College Catalog and Student Handbook*. Plagiarism, cheating, or any other form of academic dishonesty is a serious breach of student responsibilities and may trigger consequences which range from a failing grade to formal disciplinary action. NWFSC prohibits the use of AI tools, such as ChatGPT, to generate text that students represent as their own independent creation.

Student Dispute Resolution

NWFSC aims to deliver high-quality instructional experiences. In the event of a concern regarding a class, students should first attempt to resolve the matter with the instructor. If a resolution cannot be reached following a reasonable effort to resolve the dispute informally, students may seek out additional counsel in Academic Leadership through a formal process by submitting a Formal Grievance/Appeal form. Students seeking to file a Final Grade Grievance must do so within 30 days of the final grade being posted.

Campus Resources

The College is committed to offering quality resources to aid in your success as a student. Review your LMS online classroom for information on these resources such as the library, tutoring, testing, military and veteran services, etc.

Accommodation Resources

To obtain disability-related academic accommodations, students with disabilities must contact the Accommodation Resource Center at arc@nwfsc.edu or call 850-729-6014. Upon request of accommodations, students will be asked to provide medical documentation that supports their disability request. If students are concerned that they may have an undiagnosed, disability-related condition that impacts their academic progress, it is recommended that they see a licensed medical professional for a diagnosis. Please contact the Accommodation Resource Center with any questions or concerns relating to permanent or temporary student disabilities.

Students who have been approved for accommodations through the ARC are encouraged to work with their professor on facilitation. All inquiries and discussions will remain confidential.

Student Counseling Services

Northwest Florida State College has partnered with Bridgeway Center, Inc. to provide mental health resources and counseling services to all actively enrolled students. All actively enrolled students are eligible to receive an initial assessment and up to five therapeutic sessions with a Behavioral Health provider at no cost to the student. A menu of services and resources is available at www.nwfsc.edu/studentcounselingservices. Bridgeway Center Confidential Helpline: (850) 833-7500, Select Option 1 - Open 24 hours/day

Children in the Classroom

Minor children are not permitted in labs, shops, construction/repair sites, classrooms, offices, labs, or other areas where potential hazards exist, unless enrolled in classes or activities scheduled at the site. In an emergency or other compelling situation, students or staff may bring children to class or the workplace on an incidental, individual basis, provided the instructor receives advance approval from the department chair or program director. In such cases, the children must be directly supervised at all times by the parent/adult and must not disrupt or distract the flow of college work, services or instruction. The full [Children on Campus](#) policy statement appears in the College Catalog.

Student Handbook

The complete NWFSC Student Handbook can be found at <https://catalog.nwfsc.edu/>

Welcome to Class

Thank you for choosing NWFSC for your education—and welcome to class!
I will be your instructor this semester and look forward to meeting you!