MAC2311 Course Syllabus

Course Name: Calculus I
Course Number: STA2023
Section (CRN): 30004
Credit Hours: 4
Instructor Name: Ramses Diaz
Instructor Office Location: (NV - 500) / 217
Instructor Email: diazr3@nwfsc.edu

Course Curriculum

In this course, students will develop problem solving skills, critical thinking, computational proficiency, and contextual fluency through the study of limits, derivatives, and definite and indefinite integrals of functions of one variable, including algebraic, exponential, logarithmic, and trigonometric functions, and applications. Topics will include limits, continuity, differentiation and rates of change, optimization, curve sketching, and introduction to integration and area.

Broad Goals

The goal of this course is for the student to (1) develop the mathematical maturity required for rigorous scientific coursework and (2) gain the foundational principles needed for success in Calculus II and beyond.

Objectives

Student Learning Outcomes:

• Students will calculate a limit, derivative, or integral using appropriate techniques.

• Students will determine the continuity and differentiability of a function.

• Students will use limits and derivatives to analyze relationships between the equation of a function and its graph.

• Students will apply differentiation techniques to model and solve real world problems.

• Students will use integrals and the Fundamental Theorem of Calculus to analyze the relationship between the integral of a function and the related area.

Expectations of the Instructor and Course

a. Office Hours: I am available 10 hours each week for office hours. I am also available at other times. You can call me at 850 – 123 -4567 Ext. 9876 or email me at smithj3@nwfsc.edu to schedule an appointment. My office hours will be posted on my office door and on Canvas after the semester begins.
Office Hours: I am available 10 hours each week for office hours. I am also available at other times. You can call me at **850-200-4118** or email me at **diazr3@nwfsc.edu** to schedule an appointment. My office hours will be posted on my office door and on Canvas after the semester begins.

b. Email/voicemail response time of the instructor: You can anticipate responses to inquiries and questions within **24-48** hours of receipt except on weekends and holidays. I generally reply to emails **Monday – Thursday from 8:00 a.m. to 4:00 p.m.**

c. Learning Management System Usage Notification: Canvas Resources. are available for students to learn more about using the Canvas learning management system we are using for this course. Since all assignments are submitted through Canvas and/or ALEKS (unless otherwise noted), access to a computer is required for this course. Students have free access to computers at all campuses. Canvas lists minimum computer specifications and supported browsers to ensure compatibility. The Chrome browser is recommended.

d. ALEKS: Engages students with online tools used for formative assessments.
How Student Performance Will be Measured This course uses various summative assessments to measure student performance toward the student learning outcomes listed above. Grading Scale: A (100-90), B (89-80), C (79-70), D (69-60), and F (59-0). A breakdown of the final grade is shown below. 4 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

How Student Performance Will be Measured

This course uses various summative assessments to measure student performance toward the student learning outcomes listed above. Grading Scale: A (100-90), B (89-80), C (79-70), D (69-60), and F (59-0).

A breakdown of the final grade is shown below.

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

$$Grade = 0.7 \cdot \frac{Q1 + Q2 + Q3 + Q4}{4} + 0.20 \cdot Final + 0.1 \cdot Homework$$

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-up.**