

MATH 5A –MATH ANALYSIS I (#51044)
Courseid: perez33286
Fall 2023

Instructor: Mr. Conrad Perez

Class Time: MWF 9:30 AM – 10:50 AM

Classroom: CCI-200

Office: MSCI-127

Office Hours: MW: 12:00-1:00PM (In-person and Zoom); T: 10:00AM-12:00 PM (In-person and Zoom); TH: 11:00AM-12:00PM (Zoom only); or by appointment

Phone: 638-3641 ext. 3255

E-Mail: conrad.perez@reedleycollege.edu

Textbook (Optional): Calculus Early Transcendentals (Third Edition) by Briggs, Cochran, Gillett, Schulz

Web Access (Required): MyMathLab access code must be purchased

Computer Requirements:

	Operating systems	browsers
Windows	Windows 10	Microsoft Edge
		Firefox 45 or newer Chrome 49 or newer
	Windows 7	Internet Explorer 11
		Firefox 45 or newer Chrome 49 or newer
Mac OS	OS X 10.12	Safari 11 or 12
		Firefox 45 or newer Chrome 49 or newer
	OS X 10.13	Safari 11 or 12
		Firefox 45 or newer Chrome 49 or newer
	OS X 10.14	Safari 12 Firefox 45 or newer Chrome 49 or newer
OS X 10.15	Chrome 49 or newer	
Chrome OS	Chrome OS	Chrome 49 or newer

- Internet Connection: Cable/DSL, T1 or other high-speed connection. You **cannot** use a dial-up modem for the course.
- Adobe Acrobat Reader

Important Dates: Drop Deadline- Fri. October 6, 2023.

Days Off- Mon. Sept 4; Fri. Nov 10; Thur.-Fri. Nov 23-24.

Final Exam- Mon. December 4, 2023 from 9:00AM to 10:50AM

Course Prerequisites: C or better grade in Math 4A and Math 3A, or equivalent.

Course Overview: The course will cover all or parts of chapters 2 - 5. The course objective is to obtain a solid understanding of the following concepts and problems dealing with calculus:

1. Compute the limit of a function at a real number.
2. Determine if a function is continuous at a real number.
3. Find the derivative of a function as a limit.
4. Find the equation of a tangent line to a function.
5. Compute derivatives using differentiation formulas.
6. Use differentiation to solve applications such as related rate problems and optimization problems.
7. Use implicit differentiation.
8. Graph functions using methods of calculus.
9. Evaluate a definite integral as a limit.
10. Evaluate integrals using the Fundamental Theorem of Calculus.
11. Apply integration to find area.

Course Student Learning Outcomes: Student Learning Outcomes are statements about what the discipline faculty hope you will be able to do at the end of the course. This is NOT a guarantee: the ultimate responsibility for whether you will be able to do these things lies with you, the student. In addition, the assessment of Student Learning Outcomes is done by the department in order to evaluate the program as a whole, and not to evaluate individual faculty performance.

SLO1: Evaluate limits using graphical, analytical, and tabular techniques.

SLO2: Calculate and interpret the derivatives of algebraic, trigonometric, and transcendental functions.

SLO3: Translate problems from the physical, life, and social sciences into mathematical models and apply appropriate techniques to solve.

SLO4: Calculate the integrals of algebraic, trigonometric, and transcendental functions.

Attendance: After 6 absences, students may be dropped from the class. Late arrival and leaving class early will be considered as an absence. Any canceled classes will have a note posted on the classroom door.

Behavior: A student may be suspended from the class if he or she engages in a classroom behavior that interferes with the learning environment. Such behavior includes, but is not limited to, disruptive conversations with fellow students, regular tardiness, sleeping, and leaving the classroom during class time. Students are expected to turn off all cell phones and other electronic devices during class time.

Assignments: There will be 4-5 exams worth 100 points apiece. Homework assignments will be worth 5 points apiece and these will be done online at <http://www.pearsonmylabandmastering.com>. A student not registered on the MyMathLab website by the first Friday of the semester will be dropped from the course. A student with 3 consecutive 0s on the homework may be dropped from the course. Quizzes will be worth 1-5 points each. Some homework, quizzes, and/or extra credit may be assigned as group work during the semester. No homework will be accepted after its due date nor any make-up exams given without prior arrangements being made before the homework's due date or before the exam. A student caught cheating will receive an F on the assignment and/or may be dropped from the course.

Grading: The course grade is based upon the points earned from the homework, quizzes, exams, extra credit, and the final. At any time during the course, the grade of a student is determined as follows:

$$\frac{\text{Points Earned}}{\text{Total Points Possible}} \times 100 = \text{grade of the student}$$

The grade will be based upon the following percentages (**NO ROUNDING**):
90-100% A 80-89% B 70-79% C 60-69% D 0-59% F

Note: If you have a verified need for an academic accommodation or materials in alternate media (i.e., Braille, large print, electronic text, etc.) per the Americans with Disabilities Act (ADA) or Section 504 of the Rehabilitation Act, please contact me as soon as possible.