

Professor: Dr. Chris Black
Office: HEC #268 Des Moines Center
Office Hours: MTTh by arrangement
Email : blackc@cwu.edu. Email is the most reliable way to reach me.

Required Handouts provided by the professor.
Materials: Access to Desmos online graphing calculator.

ABOUT THIS COURSE:

MATH 170 will present an intuitive approach to differential and integral calculus specifically designed for students in the behavioral, managerial, and social sciences.

GOALS FOR COURSE:

Upon successful completion of this course, MATH 170 students will be able to:

- Find and interpret the limit of a function.
 - Discuss the continuity of a function.
 - Differentiate and integrate a variety of common functions.
 - Develop a conceptual understanding of derivatives and integrals and describe each in varying contexts.
 - Use derivatives to describe behavior of curves.
 - Solve optimization problems.
 - Calculate accumulated change using Rieman sums and techniques of integration.
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COURSE EXPECTATIONS:

Being successful in a mathematics class generally requires good study habits, hard work, patience, and proper time management. Each student is expected to attend every class meeting, to read and think about the assigned readings, to complete assignments in a timely manner, and to seek the assistance of the instructor when difficulties are encountered.

GRADING:

Homework:	20%
Partner quizzes:	20%
Tests:	40%
Final Exam:	20%

HOMEWORK:

Daily homework will be assigned in class, based on the content of the day's lesson. Homework problems are divided into three categories based on the three components of mathematical rigor: conceptual understanding (what?), procedural fluency (how?), and mathematical reasoning (why?).

Homework sets can be revised and resubmitted up to 3 times for full credit. Homework submitted after the due date will 'use' one of the allotted rewrites.

PARTNER QUIZZES:

As the content permits, in-class quizzes will be administered to be worked through with a partner. These quizzes will be announced in class, well in advance of the quiz date.

TESTS:

There will be two individual in-class tests that cover the primary concepts of calculus. The first test will focus on differential calculus (derivatives) and the second test will focus on integral calculus (integrals). Tests dates will be announced in class, well in advance of the test date.

FINAL EXAM:

The final exam will take place on Tuesday of finals week from 9:30 - 11:30 am. This comprehensive test will cover all major concepts of the course. Refer to the course outcomes (listed above) for a taste of what the final will cover. The final exam will be divided into two parts to align with the material on the two in-class tests. The percentage on the corresponding part of the final exam will replace the lower of the two test scores, if that works in your favor.

PROFESSIONALISM:

Students in the teacher preparation programs have one foot in the world of students and the other foot in the world of professional teachers. Professionalism includes time management, responsible behavior, attention to detail, engagement, attendance, and treating fellow students and the professor with respect.

HONOR AND RESPECT:

Each of us should consider our placement at this institution to be a privilege. We need to have respect for one another, and for ourselves. In light of these facts, cheating in any form will not be tolerated. You are encouraged to work together on homework problems, however anything you turn in with your name on it should have been written by you alone. In a course where much of your grade is determined by your proof writing, plagiarism is a concern. The word "plagiarize" is defined by Merriam-Webster as "to steal and pass off (the ideas or words of another) as one's own: use (another's production) without crediting the source." This is a very serious offense and jeopardizes your position in a teacher preparation program.

ACCOMMODATION FOR RELIGIOUS OBSERVANCES:

In compliance with RCW 28B.137.010, Central Washington University makes every effort to deal reasonably and fairly with students who, because of religious obligations, have conflicts with scheduled exams, assignments or required attendance. Students must present written notice to their instructor within the first two weeks of class listing the specific dates on which accommodations are required. Contact the Dean of Student Success at (509) 963-1515 for further information.

STATEMENT ON DIVERSITY:

CWU expects every member of the university community to contribute to an inclusive and respectful culture for all in its classrooms, work environments, and at campus events. As a student in this course, you are expected to treat your professors, fellow students, and other people affiliated with your work at CWU with respect, regardless of their sex, race and color, religion and creed, national origin, sexual orientation, gender identify and gender expression, disability and use of assistive devices or a service animal, and veteran or military status.

EXPECTATIONS FOR STUDENT CONDUCT:

Students in this class are expected to interact with students and the professor professionally. Instances of disruptive conduct, obstructive conduct, or harassment (see definitions below from the Washington Administrative Code) will be referred to the Dean of Student Success.

Per WAC 106-125-020, the term “disruptive” or “obstructive” conduct means conduct, not protected by law, that interferes with, impedes, or otherwise unreasonably hinders the normal teaching, learning, research, administrative, or other functions, procedures, services, programs, or activities of the university. The term includes disorderly conduct, breach of the peace, violation of local or university noise policies, lewd or obscene conduct, obstruction of pedestrian or vehicular traffic, tampering with student election processes, or interfering with the orderly conduct of university investigations or disciplinary proceedings, including interfering with or retaliating against any witness, party, or other participant.

The term “harassment” means unwelcome and offensive conduct, including verbal, nonverbal, or physical conduct, that is directed at a person because of such person’s protected status and that is sufficiently serious as to deny or limit the ability of a student to participate in or benefit from the university’s educational program, or that creates an intimidating, hostile, or offensive environment for any campus community member(s). Protected status includes a person’s actual or perceived race, color, national origin, gender, disability, or other status protected by law.