

Instructor : Aaron Montgomery

Class : MTWRF @ 8 am in Samuelson 103

Lab : some W @ 8 am in Samuelson 138

Office Hours : TW @ 9 am, MR @ noon, and by appt. in Samuelson 221E

Email : montgoaa@cwu.edu **Phone** : 963-1906

Text : **Calculus: Multivariable** (3rd ed) by Rogawski & Adams

Web : <http://webwork.math.cwu.edu/~montgomery/189/272/>

Course Outcomes:

Students at the end of this course will be able to...

- compute partial sums
- identify and compute sums of geometric series
- apply various tests of convergence for power series
- determine and manipulate Taylor Polynomials and Taylor Series
- perform algebraic operations on vectors and provide geometric interpretations of these operations
- describe and recognize graphs of multivariable functions
- determine limiting and continuity properties of multivariable functions
- compute partial derivatives, differentials, gradients, and directional derivatives
- find equations of tangent planes
- find extrema
- communicate verbally and in writing one's understanding of mathematical concepts to others

Accommodations

Central Washington University is committed to creating a learning environment that meets the needs of its diverse student body. Students with disabilities should contact Disability Services to discuss a range of options to removing barriers, including accommodations. Disability Services is located in Hogue 126. Call (509) 963-2214 or email ds@cwu.edu for more information.

Graded Coursework:

Homework (120 points): Ten (10) weekly homework assignments will be assigned and are due in my mailbox by 3 pm on the due date. You may submit one (1) homework assignment by email over the course of the quarter. You will need to hand in all other homework assignments as hard-copy at the Math Department mailboxes. Each homework assignment will be worth 15 points, the top 8 scores will count toward your grade.

Exams (150 points): There will be three exams over the quarter, each exam will be worth 50 points. Tentative dates are October 12 (Fri), November 2 (Fri), November 28 (Wed).

Final (80 points): There will be a comprehensive final exam covering all content in the course. It will be worth 80 points and will be during the scheduled time on finals week (I believe this exam is schedule for Friday of finals week).

$\geq 87\%$	B+		$\geq 93\%$	A		$\geq 90\%$	A-
$\geq 77\%$	C+		$\geq 83\%$	B		$\geq 80\%$	B-
$\geq 77\%$	C+		$\geq 73\%$	C		$\geq 70\%$	C-
$\geq 67\%$	D+		$\geq 63\%$	D		$\geq 60\%$	D-