

**Instructor:** James Tipton   **Time:** MWF 3:00pm-3:50pm  
**Office:** Math 107   **Classroom:** Math 305  
**Office Hours:** TBA   **E-Mail:** james.tipton@mso.umt.edu  
**Phone:** 406 243-2083

**Textbook:** Understanding Analysis, 2nd Edition, Stephen Abbott. Find it online or at the UM bookstore.

**Course Descripton:** Rigorous development of single-variable calculus with formal proof. Functions, sequences, limits, continuity, differentiation, and integration.

**Prerequisites:** M 307 with a minimum grade of C-

**Homework:** Assigned and collected weekly. Please feel free to collaborate with your peers when solving problems, however you must write up your final solution in your own words. Students are encouraged to write up their final solutions using L<sup>A</sup>T<sub>E</sub>X, the gold standard for anyone serious about mathematical typesetting.

**Late Policy:** Late homework is accepted if it is turned in within a week of the due date, but there will be a 20% deduction from your final score. **No homework will be accepted a week after its due date.**

**Additional Homework Policies:** Corrections to homework may be submitted under the following provisions:

- 1) Corrections must be submitted within 1 week of the original due date.
- 2) I will only consider exercises for which 7.5 or less points have been earned.
- 3) If you have already looked at the homework solutions, you forfeit the privilege to submit corrections.
- 4) Each graded correction will earn at most 80% of the points available for the exercise.
- 5) The highest score for each exercise will be kept.
- 6) Only one submission per assignment is allowed.

**Exams:** There will be one midterm exam and one final exam. The final exam will be cumulative.

- Midterm - Tentatively scheduled for October 7th
- Final - Scheduled for December 14th, 1:10pm - 3:10pm

**Grading:** The weights used to determine the final grade are 50% for homework, 20% for the midterm, and 30% for the final.

**Important dates:** There will be no class on the following dates

- Sep. 5, Labor Day
- Nov. 8, Election Day
- Nov. 11, Veterans Day
- Nov. 23, Student Travel Day
- Nov. 24-25, Thanksgiving Break

**Course Coverage:**

- The Real Numbers: 1.2 - 1.5
- Sequences and Series: 2.2 - 2.7
- Basic Topology of  $\mathbb{R}$ : 3.2 - 3.3
- Functional Limits and Continuity: 4.2 - 4.5
- The Derivative: 5.2 - 5.3
- Sequences and Series of Functions: 6.2 - 6.6
- The Riemann Integral: 7.2 - 7.5

**Academic Honesty:** All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University.

**Student Conduct Code:** All students need to be familiar with the Student Conduct Code. You can find it in the “A to Z Index” on the UM home page.

**Disability Support:** The University of Montana assures equal access to instruction through collaboration between students with disabilities, instructors, and Disability Services for Students (DSS). If you think you may have a disability adversely affecting your academic performance, and you have not already registered with DSS, please contact DSS in Lommasson 154. I will work with you and DSS to provide an appropriate accommodation.