Mathematics 4200 - Mathematical Analysis I.
Fall 2015


URL: http://www.uwyo.edu/bessaih/

Office Hours: MWF 10:00–10:50am and by appointment

Class time & room: MWF 11:00-11:50 am in EN 3104.


Course Description. The course emphasizes rigorous construction of major notions and tools of mathematical analysis such as convergence, differentiation. Success in the course strongly depends on student’s ability to read and understand mathematical statements and proofs.

Prerequisites. Grade of C or better in Mathematics 2210, 2250 and 3205.

Tentative list of topics

1. The real Number System.
2. Basic Topology of \( \mathbb{R}^n \).
3. Limits and Continuity.
4. Derivatives.
5. Sequences and series of functions.

Grading policy.

• Final exam: The final exam will take place on December 18th 2014 at 10:15am-12:15pm in EN 3104. The final exam counts for 20% of the final grade.
• **Midterms:** There will be two in class Midterm exams tentatively scheduled for **09-October-2014** and **11-November-2014**. Each midterm counts for **20%** of the final grade. Make-up tests, for those who miss tests, will only be granted in cases of verifiable illness or the most extreme situation (at my discretion). Please contact me in advance of such a situation.

• **Homeworks:** Homework sets will be assigned approximately every week or other week and will be posted on the course webpage and will be submitted at a specific due date (usually a week later) at the beginning of the lecture. You are encouraged to discuss the homework with other students however, please do not copy anyone’s else work. This might affect your grade. **No late assignments will be accepted.** The homework will count for **40%** of the final grade.

• **Attendance:** I strongly recommend class participation and attendance and consider this activity essential in determining borderline grades.

• **Grading scheme for the final grades:** Grade A: 90-100, Grade B: 80-89, Grade C: 70-79, Grade D: 60-69, Grade F: <60.

• **Disability statement:** If you have a physical, learning, sensory or psychological disability and require accommodations, please let me know as soon as possible. You will need to register with, and possibly provide documentation of your disability to University Disability Support Services (UDSS) in SEO, room 109 Knight Hall. You may also contact UDSS at (307) 766-6189 or udss@uwyo.edu. Visit their website for more information: www.uwyo.edu/udss

• **Academic honesty:** UW Regulation 6-802. The University of Wyoming is built upon a strong foundation of integrity, respect and trust. All members of the university community have a responsibility to be honest and the right to expect honesty from others. Any form of academic dishonesty is unacceptable to our community and will not be tolerated. Teachers and students should report suspected violations of standards of academic honesty to the instructor, department head or dean. Other University regulations can be found at: http://www.uwyo.edu/dos

The information in this syllabus is subject to change as the course proceeds. If there are changes, they will be announced repeatedly in class.