Instructor: Hakima Bessaih, Ross Hall 210, Ext. 6213

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

Office Hours: W 3:00-4:00pm, F 10:00-11:00am and by appointment.

Class time & room: MWF 11:00-11:50 am in CL 121.


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 ℜ^n.
3. Limits and Continuity.
4. Derivatives.
5. Infinite Series and infinite products.
8. Implicit Functions and Extremum Problems.
Grading policy.

- **Final exam:** The final exam will take place on **December 17th 2014 at 10:15am-12:15pm** in CL 121. The final exam counts for **20%** of the final grade.

- **Midterms:** There will be two in class Midterm exams tentatively scheduled for **06-October-2014 and 10-November-2014** at 5:00-6:30pm in RH247. 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 else's 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, or psychological disability and require accommodations, please let me know as soon as possible. You will need to register with, and provide documentation of your disability to, University Disability Support Services (UDSS) in SEO, room 330 Knight Hall, 766-6189, TTY: 766-3073.

- **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://uwadmweb.uwyo.edu/legal/universityregulations.htm

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