

**Winter 2010**  
**Math 472**  
**Advanced Analysis**  
**Bouillon 110, 3:00 - 4:30 MW**

**Instructor:** Dr. Jim Bisgard

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**Office Hours:** M-F 12:00 - 1:00, MW 2:00 - 2:50, and by appointment.

**Required Text:** Ross, Kenneth A.; Elementary Analysis: The Theory of Calculus ; Springer-Verlag

**Course Goals:** Math 472 is a continuation of Math 471, and the goals remain the same. Our topics will include:

1. Metric space topology
2. Series
3. Continuity
4. Differentiation

## 1 Grades/Exams/Homework

- Grades

Grades will be calculated using the following weighting system:

Homework: 50%;

Exams: 50% total, broken up as follows: 25% for the mid-term and 25% for the final.

- Homework

You'll get a homework assignment every Monday (except the first week!) which will be due on the Tuesday of the following week. You may use/ask/talk to whatever/whoever you'd like, as long as you say what resources you used. However, you must write your solutions up in **your own words** to hand in. **DO NOT** wait until the day before homework is due to start working on it. There won't be a large number of problems, but they will take some time to do!

- Exams

There will be two exams: a mid-term and a final. They will be take-home exams, and you'll have a week to work on them. In contrast to the homework, I want you to work by yourself on the exams. The mid-term will be handed out on February 10 and due February 18. The Final Exam will be handed out on March 10 and due on March 18.

- Expectation for Homework and Exams

Your homework and exams should be written up neatly and legibly, using complete sentences where appropriate. (For example, I don't expect you to write

$(a + b)^2 = a^2 + 2ab + b^2$  using complete sentences!)

## **2 Legalese/Fine Print**

*Students with disabilities who wish to set up academic adjustments in this class should give me a copy of their “Confirmation of Eligibility for Academic Adjustments” from the Disability Support Services Office as soon as possible so we can discuss how the approved adjustments will be implemented in this class. Students without this form should contact the Disability Support Services Office, Bouillon 205 or [dssrecept@cwu.edu](mailto:dssrecept@cwu.edu) or 963-2171.*