

**Winter 2008**  
**Math 472**  
**Advanced Analysis**  
**Bouillon 215, 1:00 - 1:50 MWF**

**Instructor:** Dr. Jim Bisgard

**Office:** Bouillon 118

**Phone:** 963-2823

**E-mail:** bisgardj@cwu.edu

**Office Hours:** M-Th 10:00 - 10:50 and by appointment.

**Course Goals:** Math 472 is a continuation of Math 471, and so the goal is very much the same: investigate the structure of calculus and continue working on your proof-writing skills. In terms of sections of the book, we will finish the chapter on series, and get to Chapter 7. This means our list of topics will include:

1. Series
2. Topology of the line
3. Continuity
4. Differentiation

**Required Text:** Krantz, Steven G.; Real Analysis and Foundations 2<sup>nd</sup> ed.; CRC Press

## 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 week, and you will have a week to work on it. With the exception of the first assignment, I'll hand homework out on Wednesday. As a good rule of thumb, you should read your assignment the day it's handed out and familiarize yourself with the questions. Then, on Thursday, try and work on the problems. That way, if you have any questions about what is being asked, you can ask during class on Friday. Instead of presentations on Friday, we'll take the first half of class to answer homework questions.

You may use/ask/talk to whatever/whoever you'd like, as long as you say what resources you used. In addition, write your solutions up in **your own words** to hand in. As for due dates, you do not have to hand in all of the problems on the due date. However, you **must** hand three or more problems in on the due date, and the rest must be handed in on the following class day. If you hand in nothing on the due date, you will receive half-credit for whatever you hand in on the following class day. You will receive no credit for problems handed in after the following class day.

### 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 6 and due on February 13, and the Final Exam will be handed out on March 5 and due on March 13.

## **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 Important Dates**

January 9 - Last Day for Add/Drop

February 13 - mid-term exam due

February 15 - uncontested withdrawal deadline

March 13 - final exam due

## **3 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 [dssreceipt@cwu.edu](mailto:dssreceipt@cwu.edu) or 963-2171.*