

Department of Mathematics and Statistics
MAT311 Intermediate Analysis
 Course Outline — Fall, 2014.

Instructor	Classroom	Time	Office	Ext.	E-mail
Dr. Wei Feng	BR 219	TTh 12:30-1:45pm	BR 217	3291	fengw@uncw.edu

Office Hours: 2:00 - 3:30PM, T Th. Additional office hours by appointments.
 Students are always welcome to stop by my office.

1. Text: “Real Analysis, A First Course” by Russell A. Gordon, 2nd Ed.

2. Goals of the course: The Intermediate Analysis gives thorough treatment of the topology of the real line; functions and limits; convergence and uniform convergence; infinite series; continuity, differentiation, and integration of functions of real variables. The goal of the course is to teach students mathematical reasoning and the construction of proofs in the environment of Real Numbers. During this course, students will develop their ability to think deductively, analyze mathematical statements, and apply mathematical ideas to the solution of new problems. The emphasis of this course is on mathematical proofs rather than on computational calculus-type problems. The student learning objectives are:

- Able to provide written explanations of the ideas behind key concepts.
- Able to clearly present and explain solutions to problems in both written and verbal form.
- Able to read and write proofs appropriate at this level.
- Able to work independently or as a team to solve problems.
- Able to apply knowledge to new situations.

3. Grading: 2 major tests — 40%, homework — 20%, classroom presentations — 10%, final exam — 30%.

4. Grading policy: A: 90-100, B: 80-89, C: 70-79, D: 60-69, F: under 60.

If the averaged grade falls just above or below a cut-off, a “-” or “+” grade may be assigned. Factors that may also affect the judgement are the distribution of grades, improvement during the semester, and attendance.

5. Attendance: You are EXPECTED to be present at, to be prepared for, to participate actively in All class meetings. Active class participation and individual assignment completion are the most significant parts of your learning in this course. You are responsible for the material covered in all

class. If you must miss a class, it is your responsibility to get the notes and assignments from the instructor or a classmate before the next class meeting.

6. Make-up policy: Make-up test is only given in case of illness or emergency. Instructor has to be notified on or before test date.

7. Academic Honor Code and Respect Compact: Please refer to Section V in your student handbook and Dean of Students' website about Academic Honor Code for the definition and procedures about academic dishonesty offenses (<http://www.uncw.edu/stuaff/doso/>). The Seahawk Respect Compact expresses the core values essential to an open, respectful learning and working environment (<http://www.uncw.edu/diversity/src.html>).

8. Disabilities: : If you have a disability and need reasonable accommodation in this course, you should inform me of this fact in writing within the first week of class. If you have not already done so, you must register with the Office of Disability Services in Westside Hall (extension 7555) and obtain a copy of your Accommodation Letter. You should then meet with me to make mutually agreeable arrangements based on the recommendations in the Accommodation Letter.

9. Tentative Weekly Schedule:

Week	Dates	Sections
1	8/20-8/22	1.1,
2	8/25-8/29	1.2, 1.3
3	9/1-9/5	Labor Day, 1.3, 1.4
4	9/8-9/12	1.5, 2.1
5	9/15-9/19	2.2, 2.3
6	9/22-9/26	3.1, 3.2, Review
7	9/29-10/3	Test 1, 3.3
8	10/6-10/10	4.1, 4.2
9	10/13-10/17	Fall Break, 4.2
10	10/20-10/24	4.3, 5.1
11	10/27-10/31	5.2, 5.3
12	11/3-11/7	5.3, 5.4
13	11/10-11/14	Review, Test 2
14	11/17-11/21	6.1, 6.2
15	11/24-11/28	6.3, Thanksgiving Vacation
16	12/1-12/4	Presentations, Review for Final Exam
Thursday 12/11	Final Exam 3:00pm-6:00pm	semester ends

10. Important Dates:

August 27, Wednesday Last day for registration/Last day to drop (without a grade) or add a class.

October 8, Monday Last day to withdraw with a W - undergraduate students.