

## REAL ANALYSIS 2 TTH 12:30-1:50PM SPRING 2017 STUART 309

- Instructor: Jonathan White
- E-Mail: [jwhite@coe.edu](mailto:jwhite@coe.edu)
- Web Page: [public.coe.edu/~jwhite/](http://public.coe.edu/~jwhite/)
- Office: Stuart 316
- Office Hours: MWF 10:00-10:50pm and by appointment
- Office Phone: 399-8280
- Home Phone: 362-3350 (between 7am and 10pm)
- Text: *Principles of Mathematical Analysis*, Walter Rudin, Chapters 1-8 and 11.
- Participation: Since we will not have exams, full participation in class sessions is essential.
- Presentations: The students will present (almost) all of the course material. We will divide up the material so that 1 to 3 students “adopt” each section, work through it in consultation with each other and me, and then present it in class.
- Problems: Problems will be assigned for each day’s material, usually selected by the students presenting that material, in consultation with me. Those will typically be due either the following class day or the class day after that. When good-faith attempt has been made but fallen short, subsequent attempts will generally be allowed.
- Math Culture: As usual, various activities outside of class will be expected, as detailed on the fourth page of this syllabus.
- Grading: Grades will be based on participation, presentations, assigned problems, and math culture, as detailed on the third page of this syllabus.

This class will pick up where we left off in Real Analysis 1 and cover construction of the reals, generalization of topics from the first semester to general metric spaces, sequences and series, Lebesgue measure & integration, and other assorted topics depending on student interest. The bulk of class material will be presented by students.

**REAL ANALYSIS 2 TTH 12:30-1:50PM SPRING 2017 STUART 309**

**Tentative Schedule**

Tuesday 1/10 General Metric Spaces	Thursday 1/12 Constructing $\mathbb{R}$ (Ch. 1 Appendix)
Tuesday 1/17 Constructing $\mathbb{R}$ (Ch. 1 Appendix)	Thursday 1/21 Constructing $\mathbb{R}$ (Ch. 1 Appendix)
Tuesday 1/24 Constructing $\mathbb{R}$ (Ch. 1 Appendix)	
Spring Break	
Final Exam – 8am on Tuesday 5/2	

Any students with disabilities which might affect their performance in this class should contact me as soon as possible to arrange accommodations.

Coe's faculty has adopted an academic integrity policy. It is your responsibility to understand and follow it.

Diversity, in all its forms, is valuable.

## REAL ANALYSIS 2 TTH 12:30-1:50PM SPRING 2017 STUART 309

Grades will not be point-based, but rather activity-based. Earning a certain grade in this class will require accomplishing a certain number of tasks, rather than performance on selected examinations. The following table specifies the requirements for each grade:

	A	A-	B+	B	B-	C+	C	C-
Participation	29+	28+	27+	26+	25+	24+	23+	22+
Presentations	15+	14+	13+	12+	11+	10+	9+	8+
Problems	All	-2	-4	-6	-8	-10	-12	-14
Math Culture	12+	11+	10+	9+	8+	7+	6+	5+

All requirements for a given grade must be met in order to earn that grade, and except in extraordinary circumstances no grades below C- will be assigned. The notation in the table is, for example, "28+" for attending class at least 28 of the 30 scheduled sessions, and "-2" meaning all but two of the assigned problems were completed successfully.

## REAL ANALYSIS 2 TTH 12:30-1:50PM SPRING 2017 STUART 309

the following policy statements need to be on your syllabi:

? Academic Integrity

o At Coe College, we expect academic integrity of all members of our community. Academic integrity assumes honesty about the nature of one's work in all situations. Such honesty is at the heart of the educational enterprise and is a pre-condition for intellectual growth. Academic dishonesty is the willful attempt to misrepresent one's work, cheat, plagiarize, or impede other students' academic progress. Academic dishonesty interferes with the mission of the College and will be treated with the utmost seriousness as a violation of community standards.

o Please refer to the Coe College Academic Catalog for complete information regarding Academic Integrity: <http://www.coe.edu/academics/dean/academicintegrity>

? FERPA

o Students should be aware of their rights regarding the privacy of their educational records. Detailed information about your rights can be found under the FERPA (Family Educational Rights and Privacy Act of 1974) section in the Academic Catalog and online here:

<http://www.coe.edu/academics/registrar/ferpa>.

o In line with FERPA restrictions, students should be aware that your instructor cannot publicly post grades by student name, institutional student identification number, or social security number without first having obtained students' written permission.

? The Definition of a Course Credit & Expected Workload:

o One course credit at Coe College constitutes 150 hours' worth of student work over the course of the term. This figure includes both the time spent in class and the time spent out of class completing course work. In other words, students are expected to devote a considerable amount of time outside of class to this course. For courses that meet in a standard M-W-F or T-Th slot, students should be expected to work seven hours a week outside of the three hours in class.

? Students with Disabilities:

o Coe College will make reasonable accommodations for persons with documented disabilities. If you have a disability which may have some impact on your work in this course, please contact the Learning Commons' Academic Coach and ADA Coordinator (Kim Pierson, x8844).

o Please note that all arrangements for accommodations must be handled through the Learning Commons. Faculty must give the opportunity of an accommodation to every student in the course or only to those students for which it is determined as a need by the Academic Coach and ADA Coordinator (Kim Pierson, x8844).

? Reporting of Sexual Misconduct

As an instructor, one of my responsibilities is to help create a safe learning environment on our campus. I also have a mandatory reporting responsibility related to my role as a faculty member. It is my goal that you feel able to share information related to your life experiences in classroom discussions, in your written work, and in any one-on-one meetings. I will seek to keep information you share with me private to the greatest extent possible. However, I am required to share information regarding sexual misconduct or students who may be in danger to themselves or to others. Students may speak to someone confidentially by contacting Student Development at 319-399-8843 or Safety and Security at 319-399-8888.