

Math 551 - Fall 2018
Real Variables 1
CRN: 81238

Course Location/Time:

Armstrong Hall 203
Mondays, Wednesdays, Fridays 10:30 - 11:20 AM

Webpage:

<https://wiki.math.wvu.edu/mediawiki/index.php/551TsikkouFall2018>

Instructor:

Charis Tsikkou
chtsikkou@mail.wvu.edu
Phone # 304-293-6046

Office Hours:

Armstrong Hall 405
Mondays, Wednesdays 01:30 - 02:30 PM, Fridays 09:30 - 10:30 AM, and by appointment.

Textbook:

Real Analysis (Classic Version), 4th edition by Halsey Royden and Patrick Fitzpatrick.

Alternative Textbooks:

Principles of Mathematical Analysis (3rd edition) by Walter Rudin.

Real Analysis: Measure Theory, Integration, and Hilbert Spaces (1st edition) by Elias M. Stein and Rami Shakarchi.

Real Analysis: Modern Techniques and Their Applications (2nd edition) by Gerald B. Folland.

Purpose of Course:

The objective of this course is to provide a comprehensive introduction to the theory of measure and integration. Time permitting, we will cover a variety of topics, including Lebesgue measure, Lebesgue measurable functions, Lebesgue integration, differentiation and L^p spaces.

Important Dates:

September 3 - Labor Day Recess
October 12 – Fall Break
October 23 - Last day to drop the class

November 19, 21, 23 - Fall Recess
December 5 - Last day to withdraw from the University

Homework:

A problem set will be assigned once every two weeks, and due two weeks later (please see the course schedule for exact dates). Homework will always be collected at the beginning of the class, and late homework will not be accepted. The accuracy of your work will be checked on selected problems.

Reading the textbook is an integral part of learning the course material.

There will be two midterm exams (September 24, November 5) and a final exam (December 13, 02:00 - 04:00 PM). You must plan your travel arrangements around these dates. The only valid excuses for missing an exam are a family-related crisis or a serious health problem. If you cannot attend an exam because of an athletic contest, you must notify me at least two weeks in advance.

Grades:

Exam I (total 25%)
Exam II (total 25%)
One comprehensive final exam (35%)
Homework (total 15%)

A/A- : 90-100%
B-/B/B+: 80-89%
C-/C/C+: 70-79%
D/D+ : 60-69%
F : Below 60%

Academic Standards Policy, Including Academic Dishonesty:

You can review the rules, regulations, and procedures concerning student conduct and discipline at <http://catalog.wvu.edu/undergraduate/coursecredittermsclassification/>

Academic integrity Statement:

The integrity of the classes offered by any academic institution solidifies the foundation of its mission and cannot be sacrificed to expediency, ignorance, or blatant fraud. Therefore, instructors will enforce rigorous standards of academic integrity in all aspects and assignments of their courses. For the detailed policy of West Virginia University regarding the definitions of acts considered to fall under academic dishonesty and possible ensuing sanctions, please see the West Virginia University [Academic Standards Policy](http://catalog.wvu.edu/undergraduate/coursecredittermsclassification/) (<http://catalog.wvu.edu/undergraduate/coursecredittermsclassification/>). Should you have any questions about possibly improper research citations or references, or any other activity that may be interpreted as an attempt at academic dishonesty, please see your instructor before the assignment is due to discuss the matter.

Inclusivity Statement:

The West Virginia University community is committed to creating and fostering a positive learning and working environment based on open communication, mutual respect, and inclusion.

If you are a person with a disability and anticipate needing any type of accommodation in order to participate in your classes, please advise your instructors and make appropriate arrangements with [the Office of Accessibility Services](https://accessibilityservices.wvu.edu/). (https://accessibilityservices.wvu.edu/)

More information is available at the [Division of Diversity, Equity, and Inclusion](https://diversity.wvu.edu/) (https://diversity.wvu.edu/) as well. [adopted 2-11-2013]

Cell Phone Policy:

Cellular phones and other electronic devices (including but not limited to PDAs, iPods, Blackberry) are not to be used in class. All such devices must be turned off before the beginning of the class period and placed out of sight (for example, in a backpack or purse) until the class has concluded.