Towson University
Department of Mathematics
Math 473.180: Introductory Real Analysis
Fall 2016
Mondays and Wednesdays, 1 – 2:50pm in YR 127

Vince Guingona

Office Location: YR 357   vguingona@towson.edu
Office Hours: Wednesdays and Thursdays, 10 – 11:30am
Blackboard: https://blackboard.towson.edu/

Course Description: An introduction to mathematical analysis. Sequences, series, continuity, differentiation, integration and uniform convergence.

Prerequisites: Math 267 and Math 275

Required Text: *Elementary Real Analysis*, Second Edition, Thompson, Bruckner, Bruckner
http://classicalrealanalysis.info/documents/TBB-AllChapters-Landscape.pdf

Course Objectives: In this class, we will cover the basics of real analysis. This is a "proof based" class, meaning that all assignments will ask you to provide logical arguments to justify mathematical statements; there will be no computation required. We will begin with discussing the real numbers, then study sequences and series, limits, continuous functions, differentiation, and integration.

Evaluation: Your grade in the course will depend on three midterm exams, each worth 20% of your grade, one final exam, worth 30%, and homework assignments, worth 10%. This information is summarized below.

Graded Components	
Exam 1	20%
Exam 2	20%
Exam 3	20%
Final Exam	30%
Homework	10%
Total	100%

Final Grade Cut-Offs

A	93% or higher	C+	77% - 79%
A-	90% - 92%	C	70% - 76%
B+	87% - 89%	D+	67% - 69%
B	83% - 86%	D	60% - 66%
B-	80% - 82%		

Exam Dates:
- **Exam 1:** Thursday, September 29
- **Exam 2:** Thursday, October 27
- **Exam 3:** Thursday, December 1
- **Final Exam:** Friday, December 16, 12:30 – 2:30pm

Homework: We will have weekly homework assignments consisting of problems from both the book and of my own creation. You will have one week to complete these assignments. Working in groups is permitted, but each person must submit her or his own copy.

Remarks and/or Policies: Class attendance is expected. If you miss class, it is your responsibility to get the material and homework assignments from other students. No late

homework will be accepted. Normally, no make-up tests will be administered. If you cannot make a test, please let me know as soon as possible.

Calculators will not be allowed on exams (and they are unnecessary, as exams will be entirely "proof based").

The use of electronic devices during lecture (e.g., laptops for taking notes) is permitted so long as it is not disruptive to your fellow students.

Academic Integrity: All students are expected to adhere to the Towson University Student Academic Integrity Policy. Cheating in any form is unacceptable and failure to abide by the Student Academic Integrity Policy may result in the grade of F in the course.

Student with Disability Policy: This course is in compliance with Towson University policies for students with disabilities. Students with disabilities are encouraged to register with Disability Support Services (DSS), 7720 York Road, Suite 232, 410-704-2638 (Voice) or 410-704-4423 (TDD). Students who expect that they have a disability but do not have documentation are encouraged to contact DSS at www.towson.edu/dss/ for advice on how to obtain appropriate evaluation. A memo from DSS authorizing your accommodation is needed before any accommodation can be made.

Diversity Statement: In accordance with the Towson University Strategic Plan, the FCSM Diversity Action Plan, and the Department of Mathematics Diversity Action Plan, everyone participating in this course is expected to be respectful of each other without regard to race, class, linguistic background, religion, political beliefs, sex, gender identity or expression, sexual orientation, ethnicity, age, veteran's status, or physical ability. If you feel these expectations have not been met, please feel free to discuss it with me or with the designated diversity liaison Dr. Elizabeth Goode.

If you have any further questions about the course, please email me or discuss them with me during office hours.

Other Important Dates:
- **Drop without W deadline:** Wednesday, September 7
- **Drop deadline:** Monday, September 26
- **Last day of class:** Monday, December 12
- **Final exam:** Friday, December 16, 12:30 – 2:30pm

Good luck!!