

MATH 311-01 Introduction to Higher Mathematics Fall 2016

Prerequisites: MATH 205 or ENGR 101

Instructor: Dr. Robert Powers
NS 225
852-6103 or rcpowe01@louisville.edu

Class Meetings: MWF 10:00 to 10:50 in NS 212F

Office Hours: ~~TBA~~ MW 1:00 to 2:00

Text: Mathematical Proofs: A Transition to Advanced Mathematics,
Third Edition, by Chartrand, Polimeni, and Zhang, Pearson
2013.

Material: Chapters 1-10 and if time permits part of Chapter 12.

Course Description: Introduction to abstract mathematics with particular attention to developing proof-reading and proof-writing skills. The basics of set theory, functions, relations, number systems, countability, sequences and their convergence, and the complex plane.

Grading:	Homework & Quizzes	200
	Exams	200
	Final	200

Grades for this course will be based upon total points earned from homeworks, quizzes, two in class exams, and the final exam. A letter grade will be assigned according to the following scale: 97% will guarantee an A+, 93% an A, 90% an A-, 87% B+, 83% B, 80% B-, 77% C+, 73% C, 70% C-, 67% D+, 63% D, 60% D-, below 60% merits an F.

Homework: I will assign homework on a regular basis. Only some problems from each homework assignment will be graded. It is important that you spend time on all the problems and that you write your solutions neatly, carefully, and legibly. Late homework will only be accepted in extreme circumstances.

Make-up work: Make-up exams and quizzes will be given only in the case of a pre-arranged medical procedure, university sanctioned event, or documented emergency. Typically, a make-up exam will be given through University Testing Services (852-6606).

Important Dates for Fall 2016:

Classes start	Aug. 22 (Mon)
Last day of registration	Aug 22 (Mon)
Last day to drop/add	Aug. 26 (Fri)
Labor Day holiday	Sept. 5 (Mon)
Last day to apply for degree	Sept. 14 (Wed)
Mid-term break	Oct. 3-4 (Mon-Tues)
Last day to withdraw	Oct. 24 (Mon)
Thanksgiving break	Nov. 23-27 (Wed–Sun)
Last day of classes	Dec. 6 (Tues)
Reading day	Dec. 7 (Wed)
Final examinations	Dec. 8-14 (Thur–Wed)

Final Exam: **Wednesday, December 14, 8:00-10:30**

Title IX/Clery Act Notification

Sexual misconduct (including sexual harassment, sexual assault, and any other nonconsensual behavior of a sexual nature) and sex discrimination violate University policies. Students experiencing such behavior may obtain **confidential** support from the PEACC Program (852-2663), Counseling Center (852-6585), and Campus Health Services (852-6479). To report sexual misconduct or sex discrimination, contact the Dean of Students (852-5787) or University of Louisville Police (852-6111).

Disclosure to **University faculty or instructors** of sexual misconduct, domestic violence, dating violence, or sex discrimination occurring on campus, in a University-sponsored program, or involving a campus visitor or University student or employee (whether current or former) is **not confidential** under Title IX. Faculty and instructors must forward such reports, including names and circumstances, to the University's Title IX officer.

For more information, see the Sexual Misconduct Resource Guide:
<http://louisville.edu/hr/employeerelations/sexual-misconduct-brochure>