Western Connecticut State University

MAT 110 (Great Ideas in Mathematics)
Fall 2017

Course Outline

Instructor: Robert Dolan
Office Hours: Office hours will be held before class by appointment.
Email: robert.dolan@uconn.edu
Course Webpage: http://robert-dolan.grad.uconn.edu/teaching/mat-110-wcsu/

Course Description: This is a survey course designed to acquaint the student with mathematical ideas not normally encountered at the precollege level. The course conveys something about the nature of mathematics - its methods, uses and roles in society - through an elementary treatment of topics such as rubber-sheet geometry, number theory, astronomy, modular arithmetic or art.
Prerequisite: C in MAT 100 or MAT 100P or appropriate test score.   General Education: Quantative Reasoning

Text: Excursions in Modern Mathematics, by Peter Tannenbaum, 8th Edition.

Policies & Resources:
1. **Attendance**: You should attend all class meetings. Some material covered in class may not be in the text book and many assignments will be started in class. You are responsible for completing any work you miss on your own time.
2. **Make-Up/Late Policy:** In fairness to everyone, there are generally **no** make-ups and **no** extensions for any form of evaluation/assessment. Only extreme situations with an officially documented excuse will allow you to make up an evaluation/assessment. Whenever possible, these excuses must be presented before the evaluation/assessment is due or is supposed to take place in class.
3. **Academic Integrity:** Academic dishonesty is considered a serious offense at WCSU. The university requires all members of the community to adhere to the policy of Academic Honesty found in the Student Handbook, the College Catalogue, and on the College website. Students caught cheating shall be subject to the sanctions and other remedies described in the WCSU Academic Honesty Policy (https://www.wcsu.edu/facultystaff/handbook/forms/honesty-policy.pdf).
4. **Accommodations for Students with Disabilities:** Accommodations will be made for students with disabilities. If you have a disability and would like to request accommodations, please visit AccessAbility Services (http://www.wcsu.edu/accessability). If your request is granted then they will email me an accommodation letter, with a copy to you.

Grading:

Assignments	40%
Midterm Exam	20%
Final Exam	20%
Final Project	20%

Grade	Percentage	Grade	Percentage
A	93-100	C	73-76
A-	90-92	C-	70-72
B+	87-89	D+	67-69
B	83-86	D	63-66
B-	80-82	D-	60-62
C+	77-79	F	59 & below

- **Homework:** Homework will be assigned each week and collected the following week. All assignments and due dates will be announced in class and posted on the course website under the "homework" tab. Please feel free to ask questions before or at the beginning of class. You should turn in neat and organized solutions with full explanations. Answers without explanations are worth no credit.

- **Exams:** There will be two in-class exams. There will not be any makeup exams given. If there is an emergency and you must miss an exam, you will be responsible for notifying your instructor ahead of time or you will not get credit for that exam. Below are the dates:
    - **Midterm Exam:** October 16, 2017
    - **Final Exam:** December 4, 2017

- **Projects:** You will be assigned a final project. You will be able to choose from a list of several projects based on material covered during the course. Below is the due date:
    - **Final Project:** December 11, 2017
    - Chapter 10: Financial Mathematics

Tentative Outline

Week	Material Covered
1	Chapter 1: The Mathematics of Elections
2,3	Chapter 6: The Mathematics of Touring
4	Chapter 9: Population Growth Models
5	Chapter 9: Population Growth Models/Review
6	**Midterm Exam**
7,8	Chapter 10: Financial Mathematics
9,10	Chapter 13: Fibonacci Numbers and Golden Ratio
11	Probability and Gambling
12	Probability and Gambling/Review
13	**Final Exam**