

# MATH 1030: Elementary Discrete Mathematics

## Course Syllabus

Summer 2018

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### Contact Information

**Instructor:** Lisa Naples

**Email Address:** lisa.naples@uconn.edu

**Office:** MONT 115

**Office Hours:** Monday 11:30 am-1:00 pm, Thursday 12:30 pm -2:00 pm, and by appointment.

### Course Information

**Class Schedule:** Monday- Friday 8:00-9:40 am

**Class Location:** MCHU109

**Class Textbooks:** *The Heart of Mathematics: An Invitation to Effective Thinking*, 4th ed.

### Discussion Information

**Class Information** Tuesday, Thursday for 50 minutes at assigned time

**Instructor:** Ningwei Jiang

**Class Location:** OAK 110

### Course Overview

MATH 1030 will most likely seem significantly different from the math classes you have taken in high school. This course is not algebra based. Instead, you will be introduced to fields of mathematics that you may not have seen before such as number theory and social choice theory. The goal of this course is to start from the basics in these less familiar fields and build up an understanding together. You will occasionally be asked to perform some computation, but you will also be expected to think independently and in groups about the process behind the computations. In some cases, we will explore multiple solutions to a single problem. You are encouraged to look for alternative techniques for solving problems even when these alternative techniques are not discussed in lecture.

### Grading Policy

Grades for this course will be calculated using the following distribution:

Assignment Category	Percentage of Grade
Quizzes	10% (2% each )
Project	15%
Group Assignments	20% (10% each)
Tests	20% (10% each)
Mid-Term Exam	15%
Final Exam	20%

## Important Dates (tentative)

Quizzes: Friday July 13th, Wednesday July 18th, July 25th, and, August 1st

Group Assignments and Tests: Friday July 20th and Friday August 3rd

Cumulative Midterm Exams: Friday July 27th

Cumulative Final Exam: Thursday August 9th

## Assignment Descriptions

### Homework

Homework problems will be assigned for each unit. Homework will not be collected and does not contribute to your overall grade. However, it is strongly recommended that you complete each problem completely since doing so will allow you to practice recently learned concepts and better prepare for quizzes, tests, and exams.

### Opening Questions

At the beginning of class periods in which there is no scheduled quiz, test, or exam you will be asked to complete 1-2 true/false or multiple choice questions relating to the material taught in the previous class period. Your responses to these questions will be collected and the answers will be discussed. A grade will not be assigned on a daily basis for these assignments. However, your overall score on these opening questions will count as a quiz grade. You must average at least 50% correct by the end of the semester in order to receive full credit for the quiz grade.

### Group Assignments

Group assignments provide an opportunity to explore new topics collaboratively. Assignments will be completed primarily in class. However, groups will be assigned the day before the assignment date, and I may suggest some reading to complete ahead of the assignment date which should help with the completion of the assignment.

### Group Project

You will work on a group project with members of your breakout session throughout the semester. A separate document containing instructions will be provided.

### Tests

Tests cover approximately one week's worth of material and are not cumulative.

## Midterm Exam

The midterm exam is cumulative and covers approximately the first half of the course material.

## Final Exam

The final exam is cumulative and covers all of the course material.

## Exam Resubmission Policy

You will have an opportunity to correct and resubmit **open-ended (not true/false or multiple choice)** test and midterm exam solutions in order to earn back points. For each point lost, you can earn up to 1/2 point back. Resubmitted solutions must be completely correct and submitted within two class period after the exam is initially returned to you in order to earn back points. Additionally, resubmitted solutions must be numbered, neatly written and stapled to the original test or exam. Please note that since there are less time constraints for writing up corrections my expectations for solutions may be higher. While you can discuss potential corrections with classmates, final write-ups should be done in your own words. **Exam resubmission policy does not apply for the final exam since course averages will be sent to the registrar immediately after the completion of final exam grading. The policy also does not apply to quizzes.**

## Class Preparation and Attendance

While attendance does not contribute to your overall grade, my expectation is that you attend class on a regular basis. If you choose to not to attend class for an undocumented reason, it is your responsibility learn the material from the missed class period. Before I answer questions or review material from the date of absence I will require that you demonstrate to me that you have made significant progress in trying to learn the material on your own by, for example, obtaining notes from a classmate or reading a textbook.

As a general rule, assignments will not be accepted after the due date. If you anticipate being unable to complete an assignment by the indicated deadline, please let me know at least 24 hours in advance so that we can discuss whether an extension is appropriate.

## Cell Phone Policy

Please be respectful and keep your cell on silent or vibrate and preferably put away in a bag during class. Cell phone usage is distracting to you and to others around you, and therefore is detrimental to learning. Even having a phone out on your desk can be distracting enough to miss out on important information or to pull your focus away from a problem. If you absolutely must answer a call or text (due to an emergency) please leave the room to do so.

## Academic Honesty

The University of Connecticut has issued the following policy regarding Academic Honesty: *This course expects all students to act in accordance with the Guidelines for Academic Integrity at the University of Connecticut. Because questions of intellectual property are important to the field of this course, we will discuss academic honesty as a topic and not just a policy. If you have questions about academic integrity or intellectual property, you should consult with your instructor. Additionally, consult UConn's guidelines for academic integrity.*

Note that cheating or plagiarizing on an assignment may result in a zero for that assignment and/or failure in the course. If you have any questions regarding a particular assignment, please see me before the deadline.

## **Extra Help**

This course consists of daily lecture sessions as well as breakout sessions every Tuesday and Thursday. Breakout sessions provide a great opportunity to ask questions. It is also recommended you attend evening tutoring sessions (held Monday-Thursday). Tutoring hours give you additional opportunities to ask questions, and perhaps more importantly provide a good environment in which to work through homework problems (collaboration and discussion are strongly encouraged). You may also come to daytime office hours to address any questions or concerns.