Math 1030Q: Elementary Discrete Mathematics
Fall 2014

Course Coordinator: Professor Hohn
Lecture: Sec 001: TuTh 11:00am - 12:15pm in PB 36 with Professor Hohn
Sec 002: MWF 10:10am - 11:00am in BPB 131 with Professor Celikbas

Optional textbook: The textbook for this course is optional! The text is *The Heart of Mathematics: An Invitation to Effective Thinking*, Fourth Edition with WileyPLUS by Edward B. Burger and Michael Starbird.

A WileyPLUS access code is required for this course!

- Buying the WileyPLUS access code: You may buy the WileyPLUS access code directly from the publisher which includes access to the e-book version of *The Heart of Mathematics: An Invitation to Elective Thinking*. You will be prompted to buy (or enter) your WileyPLUS access code when you first access your homework through HuskyCT. This code is also available from the UConn Co-op.
- Buying the book bundled with the WileyPLUS access code: You may buy the bundled version of *The Heart of Mathematics: An Invitation to Elective Thinking* at the UConn Co-op which includes the WileyPLUS access code.
- Note: The unbundled version of the book (that is, the book without a WileyPLUS access code) can be obtained in many places, but the cost of buying the unbundled text and the WileyPLUS code separately may be much more than the cost of the bundled version.

Homework: We will be using the WileyPLUS online homework system coupled with HuskyCT for homework in this class. To access your online homework, you must log-in to HuskyCT. Click on Math 1030Q, and you will find a link to your homework on the left. Homework assignments for each section of the text will be assigned on HuskyCT. The due date for each assignment will generally be two or three days after the material is covered in class. You will get two attempts for each question, and after each attempt, you will be told whether your answer is correct or not.
If you are not able to get the correct answer after your initial attempt, I recommend that you seek help from me (maryann.hohn@uconn.edu), the Q-Center, or a tutor. For more information about help, see http://www.math.uconn.edu/ClassHomePages/Math1030/math1030f14/help.html.

A Few Comments Regarding Homework
Genuinely “struggling" with the exercises is an important part of mathematics: do not expect to know immediately how to solve every problem by looking at it. Part of the problem solving process is trying things until you find something that works.

A thorough understanding of how to solve the homework exercises is a good first step in preparing for the exams.
You should make every effort to complete each assigned homework problem. You may seek help during office hours with any exercises you have difficulty solving.

Projects: There will be 5 projects assigned during the semester. To access the projects, see your instructor's homework and projects page.

Quizzes: A quiz will be given each week covering material from the homework assignments and material taught during the previous week. The top 10 quizzes will count toward your Quizzes grade. No calculators or notes will be allowed during quizzes! Students will not be allowed to take makeup quizzes.

Clickers: Clickers will be used in the lectures, and you must register your i>clicker through HuskyCT.
Online Clicker Registration Information:
Log into HuskyCT, and click on the link for Math 1030Q.

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Look for the link that says "i>clicker Registration" and enter the 8 character Remote ID found on the back of your i>clicker.
Note: You only need to register your clicker once, and the class in which you register is irrelevant. Once registered for one class, you are registered for all of your classes.
Warning: The web version of i>clicker (apps for iPhone, Android, etc.) will not work in the classrooms.

Midterm Exams: There will be two midterm exams, tentatively given on Week 6 and Week 11 during class (http://www.math.uconn.edu/ClassHomePages/Math1030/math1030f14/calendar.html).
For specific dates, please the calendar page of your instructor. No calculators or notes will be allowed during these exams! Students will not be allowed to take makeup midterm exams.
Final Examination: The final examination date and time is determined by the university. The confirmed date and time will be announced in class and on the class calendar page at http://www.math.uconn.edu/ClassHomePages/Math1030/math1030f14/calendar.html as soon as it becomes available. No calculators or notes will be allowed during the final examination.

Regrades: Midterm exams will be returned approximately one week after the exam. If you wish to have your exam regraded, you must return it immediately to your instructor. Regrade requests will not be considered once your exam leaves the room. If you do not retrieve your exam during class, you must arrange to pick it up

Grading: Your cumulative average will be based on whichever of the following two weighted averages is better.

Scheme 1	**Weight**
Clickers	5%
Quizzes	5%
Online homework	15%
Exam 1	15%
Exam 2	15%
Final Exam	20%
Projects	25%
Scheme 2	**Weight**
Clickers	5%
Quizzes	5%
Online homework	15%
Best of {Exam 1, Exam 2}	15%
Projects	25%
Final Exam	35%

Your course grade will be determined by your cumulative average at the end of the term and will be based on the following scale:

A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F
93	90	87	83	80	77	73	70	67	63	60	Below 60

Academic Dishonesty: Academic dishonesty is considered a serious offense at UConn. Students caught cheating shall be subject to the sanctions and other remedies described in The Student Code, http://community.uconn.edu/the-student-code-appendix-a/. Proactive strategies for students to minimize academic misconduct can be found at http://community.uconn.edu/proactive-strategies-for-students-to-minimize-academic-misconduct/. It is in your best interest to maintain your academic integrity!

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Additional Course Information:
Prerequisites: Recommended preparation: MATH 1010(101) or equivalent. Not open for credit to students who have passed any MATH course other than MATH 1010, 1011, 1020,1040, 1050, 1060 or 1070.

Catalog Description:
Topics chosen from discrete mathematics. May include counting and probability, sequences, graph theory, deductive reasoning, the axiomatic method and finite geometries, number systems, voting methods, apportionment methods, mathematics of finance, number theory.
Credit Hours: 3 credits

Course Calendar:

This calendar is subject to revision during the term. Section references are only a guide.

Week	Subject
1	Algebra review - Notes
2	Ch. 4.2: Art Gallery Theorem
3	Ch. 10.4: Voting
4	Ch. 2.4: Modular arithmetic
5	Ch. 2.5: RSA encryption
6	Review, Exam 1
7	Ch. 6.1: Graph theory
8	Ch. 6.2: Graph theory
9	Ch. 6.3: Graph theory
10	Ch. 6.4: Graph theory
11	Review, Exam 2
12	Ch. 10.5: Fair division
13	Ch. 7.1, 7.4: Fractals
14	Thanksgiving break
15	Ch. 7.4: Fractals
Study Week	Final