Math 1030Q. Elementary Discrete Mathematics. SECZ82-1198

Schedule: Monday, Wednesday, Friday. 10:10 AM– 11:00 AM

Text: Heart of Mathematics: An invitation to Effective Thinking (4th Edition) – either electronic or hard copy - **with bundled access code (available from UConn bookstore)**
Note: Amazon purchases and used text books may not have a valid access code
Optional:The 5 Elements of Effective Thinking by Edward B. Burger and Michael Starbird

Instructor: Dr. Lauren Bruzzone lauren.bruzzone@uconn.edu

Inclement Weather: altert.uconn.edu or 860-486-3769

Course Description: This course is intended to introduce you to areas of mathematics (and mathematical problems) which are new to you. Employers say that the two things they look for in hiring is communication skills and ciritical analysis. The course will focus on using mathematics as a way to intoduce you to methods for effective thinking and problem solving. Recommended preparation: MATH 1010 or equivalent knowledge of basic algebra.

HuskyCT: Announcements, Homework and General Information can be found at the HuskyCT site [https://lms.uconn.edu. "Math-1030Q Elementary Discrete Mathematics SECZ82-1198"]
Announcements are pushed to your HuskyCT email address. You are responsible for checking that address periodically.

Calendar: You will be provided with the planned calendar. Changes will be noted through an Announcement.

How to Succeed in this course: Math is a participatory sport: you need to try solving problems – not just memorize a rule. **You need to talk to me if you are having difficulties with the course materials, otherwise we cannot address the problem.**

Homework: Homework and the optional Reading Assignment can bei found in the "Course Content" Section of the course website. You will have 7 chances at answering a question. (This should give you an opportunity to correct any format issues with your answer.) If you have still having problems after the 5th attempt, stop and see me before or after class. To keep up with the course, the homework should be completed within a week after the topic is covered in class. ALL homework and the Reading Assignment (if applicable) **must** be completed by noon of the last day of class.

Examinations: There will be two midterm examinations and a final exam. The Calendar provides the planned exam dates. All exams are closed book with **no access to calculators or phones**. You may have notes on one sheet of 8.5" by 11" piece of paper (both sides). See also: Makeup Policy.

Grading:

A	92-100	A-	90-91	B+	88-89	B	83-87	B-	80-82	C+	78-79
C	72-77	C-	70-71	D+	67-69	D	60-66	D-	60-55	F	0-54

If you have any questions about mid-term exam grading, ask within two days of receiving the grade; University policies will determine the deadline for questioning end term grades.

Grading Schema:

	Points/Percent	
Homework:	30	
Mid Term Exams:	40	(20 points each)
Final Exam	25	
Participation	5	
Total	100	

An optional extra credit reading assignment will be available. It is worth 5 points.

Participation: Attendance and participation are **crucial** to your success in this course. Absences will hurt your final grade by reducing the points you receive for the participation and in-class work. If there are special circumstances causing absences, please contact me by email. Excessive or chronic tardiness to class will also be considered when computing the participation portion of your grade. Students with more than three (3) unexcused absences should schedule a meeting with me. Barring biological emergencies, you are expected to stay in your seat during class.

Calculator/Phones: Calculators/Phones will not be allowed on any in-class exams or assignments. Phones should be off (or at least on vibrate) during class. No texting in class.

Individual Conferencing: I will be available for questions in the classroom before and after class. To schedule an appointment, send me an email giving me your availability. I will respond within 24 hours.

Make-Up policy: I review the midterm exams in the next class. As a result, in fairness to everyone, there are generally No make-ups for exams. Only extreme situations with an officially documented excuse will allow you to make up an exam. Where possible, these excuses must be presented before the exam is scheduled or due. For the final exam: rescheduling in the event of conflict or arranging for makeups are totally governed by University policy.

Academic Integrity: Academic dishonesty is considered a serious offense at UConn. Students caught cheating shall be subject to sanctions and other remedies as described in the Student Code (http://commnity.uconn.edu/the-student-code-appendix-a/). It is in your best interest to maintain your academic integrity. In this class, plagiarism (copying from the text or other sources without use of quotation marks and proper citations) and/or cheating will result in a grade of 0 (zero) for the exam or assignment involved. http://community.uconn.edu/academic-misconduct/

Accommodations for Students with Disabilities: Students who need accommodations because of a disability should contact the Center for Students with Disabilities as soon as possible to verify their eligibility for reasonable accommodations. For more information, refer to http://csd.uconn.edu/ and http://policy.uconn.edu/2011/05/24/people-with-disabilities-policy-statement/

Civil Discourse, rights and responsibilities: At UConn, we are afforded an environment that allows for intellectual expression. Challenging issues and ideas may arise but none of these should be expressed in an inappropriate manner either verbally or in writing. One of the goals of a university is to challenge us to think again about what we know (and all that we don't know). This demands that we all share responsibility for creating and maintaining a civil learning environment in our classrooms and in the larger university community. We will be conscious of and accept responsibility for what we say and do, how we act, how our words and actions have consequences and how our words and actions affect others. http://policy.uconn.edu/2015/12/29/policy-against-discrimination-harassment-and-related-interpersonal-violence/

Religious Observance: UConn tries to ensure that reasonable accommodations are made in response to student requests to complete work missed by absence resulting from religious observances or participation in extra-curricular activities that enrich their experience, support their scholarly development, and benefit the university community. Students anticipating such a conflict should inform their instructor in writing within the first three weeks of the semester, and prior to the anticipated absence, and should take the initiative to work out with the instructor a schedule for making up missed work. For conflicts with final examinations, students should contact the Office of the Dean of Students.

DISCLAIMER: the information in this document is subject to change. Any changes or additions will be announced during class and by notice in HuskyCT.

Table 1

		Tentative Schedule				
W1	8/26: 1.1 (1)	Intro (1): Definitions and Terminology				
	8/28: 1.1(2)+1.2	Intro (2), Initial-Value Problems				
	8/30: 1.4	Newton’s Law, Practice				
W2	9/2:	Labor Day				
	9/4: 2.1(1)	Solution Curve, Direction Field, Phase Portrait				
	9/6: 2.2	Separable Equation, Practice				
W3	9/9: 2.1(2)	Quiz, Autonomous Equation				
	9/11: 2.4(1)+2.3(1)	Exact Equation, Linear Equation(formula)				
	9/13:	Practice				
W4	9/16: 2.3(2)	Quiz, Linear Equation(theory)				
	9/18: 2.4(2)+2.5(1)	Make Nonexact DE Exact, Bernoulli DE				
	9/20: 2.5(2)	Homogeneous Equation, Reduction to Separation of Variables, Practice				
W5	9/23: 2.6+9.1	Quiz, Euler’s Method, Error Analysis				
	9/25: 7.1	Definition of Laplace Transform, Review				
	9/27:	EXAM 1				
W6	9/30: 7.2	Inverse Transforms and Transforms of Derivatives				
	10/2: 7.2*+7.3(1)	Partial Fraction Decomposition, Translation on the s-Axis				
	10/4: 7.3(2)	Translation on the t-Axis, Practice				
W7	10/7: 7.4(1)	Quiz, Derivative of a Transform				
	10/9: 7.4(2)+7.6	Transform of Integrals and Periodic Functions, System of DEs				
	10/11:	Practice				
W8	10/14: 3.1	Quiz, Linear Models				
	10/16: 3.2	Nonlinear Models				
	10/18: 3.3	Modeling with System, Practice				
W9	10/21: 4.1(1)	Quiz, Preliminary Theory of Higher Order Linear Equations				
	10/23: 4.1(1)+4.3(1)	Pre. Theo. of Higher Order Linear Eq’s, Complex Number Overview				
	10/25	Review				
W10	10/28:	EXAM 2				
	10/30: 4.3(2)	Homogeneous Linear Equation with Constant Coefficients				
	11/1: 4.2	Reduction of Order, Practice				
W11	11/4: 4.6(1)	Quiz, Variation of Parameter(formula)				
	11/6: 4.4	Undetermined Coefficients – Superposition Approach				
	11/8: 4.6(2)	Variation of Parameters(theory), Practice				
W12	11/11: 4.7	Quiz, Cauchy-Euler Equations				
	11/13: ch5+8.1(1)	Boundary Value Problem, Preliminary Theory of Linear System(1)				
	11/15: 8.1(2)	Preliminary Theory of Linear System(2), Practice				
W13	11/18: B	Quiz, Matrices				
	11/20: 8.2(1)	Homogeneous Linear System (1)				
	11/22: 8.2(2)	Homogeneous Linear System (2)				

		Tentative Schedule				
W14		Thanksgiving Recess				
W15	12/2: 8.2(3)	Homogeneous Linear System(3)				
	12/4	Quiz, Review				
	12/6	Review				
W16		Final Exam: Cumulative				