MATH 1071Q
Calculus for Business and Economics
UConn Spring 2015

About the course

This course is an introduction to calculus and applications designed primarily for students majoring in business, economics, or the life and social sciences. We will cover essential concepts of differential and integral calculus.

Textbook

Calculus, Applications and Technology (3rd edition) by Edmond C. Tomastik, bundled with *WebAssign* code.
There are two ways to purchase the text and the WebAssign access code:

1. Get the text and WebAssign access code bundled together at the UConn Co-op.
2. Get the text separately from anywhere, and buy the WebAssign access code when you access your homework through HuskyCT.

We do not recommend using the third option above, because if you buy the WebAssign access code separately then you will have to buy it for 95 dollars for one semester of calculus or 110 dollars for two or three semesters of calculus; by comparison, the cost of the book and WebAssign access code bundled together (from the publisher's website or from the UConn Co-op) is less than 95 dollars. The option to buy the text and WebAssign access code bundled together lets you use that access code for the life of the edition of the textbook.
If you purchase a code for WebAssign from WebAssign, then please note that the code will appear to be for a different book (Finite Mathematics and Applied Calculus - 5e by Waner and Costenoble). The reason this discrepancy exists is because the current Tomastik book is not currently available as an e-book but it was necessary to select some book for access code purposes only.

Calculators

Graphing calculators (TI 82, 83, 84, 84 plus, 85 or 86 recommended). (Models TI-89 and above are not permitted on the exams and quizzes)

Homework and WebAssign

Registration

The homework for Math 1071 is assigned online using the online home work system WebAssign. To access your homework online you must go to Husky CT.

Browsers

Please note that many students have experienced problems using WebAssign with Internet Explorer or Safari. We recommend that you use Firefox or Chrome.

Homework

There will be homework assignments for each section of the text. Each assignment will be made available on several days before the section is covered in class. The due date for each assignment will be set by your instructor and will generally be two or three days after the material is covered in class. **You will get 5 attempts to answer each non-multiple choice question and two attempts for each multiple choice question.** 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 attempts, we recommend that you seek help from your instructor, the Q-Center or another student.

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Quizzes

There will be a quiz on each homework assignment. These quizzes will be timed assignments on WebAssign and will generally be due one day after the corresponding homework assignment.

Number of attempts

Please note that you will (usually) have 5 attempts at each homework question and 2 attempts at each quiz question. Multiple choice questions will allow for fewer attempts.

Grading

Homework	WebAssign	10%
Quizzes	WebAssign	10%
Exam 1 (Friday 6th Mar.)	In-class exam (50 min.)	25%
Exam 2 (Friday 10th Apr.)	In-class exam (50 min.)	25%
Final Exam (TBA)	Common exam, cumulative	30%

Academic integrity

Please be familiar with the university policy on academic integrity. All breaches of this code of conduct will be taken seriously and handled as per university regulations.

Special accommodations

Student Athletes and Students with Disabilities should inform your instructor of your commitments as an athlete, any special needs that you have, etc. within the first three weeks of the semester. You will be expected to bring in a letter from the Athletics Department or the Center for Students with Disabilities.

The University Senate passed a motion on about religious observances which stipulated that 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, as usual, contact the Office of Student Services and Advocacy.

Contact

Any questions or concerns about the course should be sent to either your instructor or the course coordinator Dr. Robert Heffernan.

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Tentative Outline

Calculus: Applications and Technology (3rd edition), by E. Tomastik

Week	Section	Topic
1		**Note:** there will be no classes on Mon. Jan. 19th (Dr. Martin Luther King Jr. Day)
	A1	Exponents and roots
	A2	Polynomials and rational expressions
	A6	Lines
2	1.1	Functions
	1.2	Mathematical models
	1.3	Exponential models
3	1.4	Combinations of functions
	1.5	Logarithms
4	3.1	Limits
	3.2	Rates of change
	3.3	The derivative
5	4.1	Derivatives of powers, exponents and sums
	4.2	Derivatives of products and quotients
	4.3	The chain rule
	4.4	Derivatives of exponential and logarithmic functions
	3.4	Local linearity
7		Review / **Exam 1 (Fri. 6th. Mar)**
8	4.5	Elasticity of demand
	5.1	The first derivative
	5.2	The second derivative
9		**Spring break**
10	5.3	Limits at infinity
	5.4	Additional curve sketching
11	5.5	Absolute extrema
	5.6	Optimisation and modeling
12		Review / **Exam 2 (Fri. 10th Apr.)**
13	6.1	Antiderivatives
	6.2	Substitution
14	6.3	Estimating distance travelled
	6.4	The definite integral
15	6.5	The fundamental theorem of Calculus
	6.6	Area between two curves
		Review
		Final exam