Math 1071Q — Calculus for Business and Economics (Fall 2018)

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About the course

Welcome! 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 Bookstore.
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 second option above, because if you buy the WebAssign access code separately then it costs MORE than both the textbook and the code together from the bookstore. 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.

You will have **two weeks of free access** to WebAssign which includes an e-book, so you can get started right away in case you need some time to arrange to buy textbook with the access code. (Note: we are aware that there is an issue with availability of books in the UConn Bookstore. We have been told this will be fixed soon.)

Calculators

Graphing calculators: TI 82, 83, 84, 84 plus, 85 or 86 may be used. Models TI-89 and above **(including TI-Nspire)** are not permitted on the exams or quizzes. See this link (from the University of Arizona) for more detailed description of what is and is not allowed (including Casio brand calculators).

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. Homework due dates will be set by individual instructors. **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 or not your answer is correct. 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.
WebAssign Quizzes
There will be a quiz on each homework assignment. These assignments are designed to provide you with extra practice. They do not count towards your grade. You have two attempts at each quiz question.

Worksheets and Quizzes

Worksheets

There is a worksheet that corresponds to each section covered in the textbook. You can access them under the outline tab above. Each worksheet lists the sections objectives, has a few practice problems and has suggested textbook problems. These practice problems are meant to prepare you for the quizzes and exams. Worksheets do not need to be turned in and solutions will be posted. It is recommended that you complete the worksheets before the quizzes each week. If you get stuck, review your class notes and the textbook and/or go to office hours. Once you are confident in your solutions, compare your answers to the posted solutions. Reading solutions as an alternative to doing the problems on your own is NOT a good strategy.

Quizzes

There will be a quiz every Friday on the material covered the previous week. (e.g During Week 2, there will be a quiz on the material covered during Week 1). Quiz questions will be of similar style and difficulty as the worksheet questions. In fact, at least one question each week will be the same as a worksheet question with different numbers. (Note: Exam questions will also be similar style and content as worksheet questions but will generally NOT be the same as worksheet questions. Memorizing worksheet solutions is not the right approach for studying, you must work to understand all the topics in each section.)

Grading

Category	Where	Description	Percentage Toward Grade
Homework	WebAssign	One assignment per topic	10%
Quizzes/ Participation	Quizzes: Fridays in class	Quizzes: Once a week (12 total, lowest 2 dropped), Participation: At your instructor’s discretion	20%
Exam 1 (Oct 1)	50 min, in class	Covers A.1, A.2, A.6, 1.1-1.5, 3.1-3.3	20%
Exam 2 (Nov 12)	50 min, in class	Covers 4.1-4.5, 3.4, 5.1-5.6	20%
Final Exam	2 hours, during final exam week	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 Dean of Students.

Contact

The course coordinator: Professor Katherine Hall(katie.hall@uconn.edu). Or your instructor.

Tentative Outline – Spring 2018

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

Days named "Review" can also be used as catch up days.

Week	Section	Topic	Worksheets	Worksheet Solutions
1				
	A.1	Exponents and Roots	Worksheet A.1 .pdf	Solutions .pdf
	A.2	Polynomials and Rational Functions	Worksheet A.2 .pdf	Solutions .pdf
	A.6	Lines	Worksheet A.6 .pdf	Solutions .pdf
		Quiz 1: A.1		
2	1.1	Functions	Worksheet 1.1 .pdf	Solutions .pdf
	1.2	Mathematical models	Worksheet 1.2 .pdf	Solutions .pdf
		Quiz 2: A.2, A.6		
3	1.3	Exponential Models	Worksheet 1.3 .pdf	Solutions .pdf
	1.4	Combinations of Functions	Worksheet 1.4 .pdf	Solutions .pdf
		Quiz 3: 1.1, 1.2		
4	1.5	Logarithms	Worksheet 1.5 .pdf	Solutions .pdf
	3.1	Limits	Worksheet 3.1 .pdf	Solutions .pdf
		Quiz 4: 1.3 and 1.4		
5	3.2	Rates of Change	Worksheet 3.2 .pdf	Solutions .pdf
	3.3	The Derivative	Worksheet 3.3 .pdf	Solutions .pdf
		Review		
		Quiz 5: 1.5 and 3.1		
6		**Exam 1 (Monday, Oct 1, in class)**		
	4.1	Derivatives of powers, exponents and sums	Worksheet 4.1 .pdf	Solutions .pdf
	4.2	Derivatives of products and quotients	Worksheet 4.2 .pdf	Solutions .pdf
		No Quiz		
7	4.3	Chain rule	Worksheet 4.3 .pdf	Solutions .pdf
	4.4	Derivatives of exponential and logarithmic functions	Worksheet 4.4 .pdf	Solutions .pdf
	3.4	Local Linearity	Worksheet 3.4 .pdf	Solutions .pdf
		Quiz 6: 4.1 and 4.2		
8	4.5	Elasticity of Demand	Worksheet 4.5 .pdf	Solutions .pdf
	5.1	The first derivative	Worksheet 5.1 .pdf	Solutions .pdf
		Quiz 7: 4.3, 4.4 and 3.4		
9	5.2	The second derivative	Worksheet 5.2 .pdf	Solutions .pdf
	5.3	Limits at infinity	Worksheet 5.3 .pdf	Solutions .pdf

		Quiz 8 4.5 and 5.1		
10	5.4	Curve sketching	Worksheet 5.4 .pdf	Solutions .pdf
	5.5	Absolute Extrema	Worksheet 5.5 .pdf	Solutions .pdf
		Quiz 9 5.2 and 5.3		
11	5.6	Optimization and modeling	Worksheet 5.6 .pdf	Solutions .pdf
		Review		
		Quiz 10 5.4 and 5.5		
12		**Exam 2 (Monday, Nov 12, in class)**		
	6.1	Antiderivatives	Worksheet 6.1 .pdf	Solutions .pdf
	6.2	Substitution	Worksheet 6.2 .pdf	Solutions .pdf
		No Quiz		
—				
		Thanksgiving Recess		
13	6.4	The definite integral	Worksheet 6.4 .pdf	Solutions .pdf
	6.5	The fundamental theorem of calculus	Worksheet 6.5 .pdf	Solutions .pdf
		Quiz 11 6.1 and 6.2		
14	6.6	Area between two curves	Worksheet 6.6 .pdf	Solutions .pdf
		Review		
		Quiz 12 6.4, 6.5 and 6.6		
15		**Cumulative Final**	Final Exam Review Packet .pdf Review Packet with space to write .pdf	Solutions .pdf