Math 2110Q Syllabus
Fall 2019

Instructor: Jeffrey Connors
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Office: ACD 114C
Office hours: M,W 3:15-4:15 PM or Tuesdays 2-3 PM formally, but I have an open door policy, meaning just drop by any time. If I am too busy, we will find a better time.

Class time and room: M,W 1:25 - 3:05 PM in ACD 106

Text: *Calculus, 8th Edition* by Stewart. UConn has a "custom bundle" with WebAssign access for the homework (see below).

Class notes: Slides will be available online to download freely, well in advance of the scheduled lectures. Class time should not be spent transcribing the slide contents into your personal notes. Please take in-class notes in a way that does not require everyone to always wait for you to catch up! This frees-up time at the end of class to try your hand at the worksheet problems.

Homework: We will use the WebAssign system: `www.webassign.net`. There is a link to the homework through the HuskyCT site for this course (see `huskyct.uconn.edu`). Homework will be assigned for each lecture, as a way of organizing the assignments. However, homeworks are intended to help prepare you for specific exams. All homework pertaining to a certain exam is due at the start of that exam. Late homework therefore fails to achieve the purpose of helping to prepare you for the exam, and is not accepted under any circumstances.

Worksheets: These will be administered most classes and will be related to the material covered during the previous lecture. They may be worked individually or in groups, and are open-book, but there is a time limit and they are collected for credit. No worksheet grades will be dropped. There will be no make-ups without receiving permission **before class**.

Calculators: The use of calculators will not be permitted on exams. Calculators may be used on homework and worksheets.

Grading policy: The course grade consists of four equally-weighted parts:
$CG = 0.25 * (A + B + C + D)$ where A, B, C and D are the "chapter grades". Essentially, grade A corresponds to the book chapters 12 and 13. Grades B, C and D correspond to book chapters 14, 15 and 16, respectively. Each chapter grade is independently calculated as the maximum result from the following two schemes:

Grading scheme 1:	Homework	20%	**Grading scheme 2:**	Homework	0%
	Worksheets	5%		Worksheets	0%
	Exam	75%		Exam	100%

The exam for the fourth chapter grade is the "final exam", but this is treated no differently from the other exams, aside from being scheduled as described below. Make-up exams will only be available with permission granted prior to the start of the exam. There must be extenuating circumstances to receive permission for a make-up exam.

Final exam: I will update this information when it becomes available.

Date	Book Sections	Topics	Notes
Aug. 26	12.1, 12.2	3D coordinates, vectors	
Aug. 28	12.2, 12.3	Vectors and dot products	Worksheet
Sept. 2			Labor Day - no class
Sept. 4	12.4, 12.5	Cross products, lines, planes	Worksheet
Sept. 9	12.6, 13.1	Surfaces, vector functions	Worksheet
Sept. 11	13.2, 13.3	Derivatives, integrals, arc length, curvature	Worksheet
Sept. 16	13.3, 13.4	Arc length, curvature, velocity, acceleration	Worksheet
Sept. 18	12.1 - 13.4	Review for Exam 1	Worksheet
Sept. 23			**EXAM 1**
Sept. 25	14.1, 14.2	Functions, limits and continuity	
Sept. 30	14.3, 14.4	Partial derivatives, linear approximations	Worksheet
Oct. 2	14.5, 14.6	Chain Rule, directional derivatives	Worksheet
Oct. 7	14.7, 14.8	Maxima and minima, Lagrange multipliers	Worksheet
Oct. 9	14.1 - 14.8	Review for Exam 2	Worksheet
Oct. 14			**EXAM 2**
Oct. 16	15.1, 15.2	Double integrals, Fubini's Theorem	
Oct. 21	15.3, 15.4	General regions and polar coordinates	Worksheet
Oct. 23	15.5, 15.6	Applications of double integrals	Worksheet
Oct. 28	15.7, 15.8	Triple integrals	Worksheet
Oct. 30	15.9, 15.10	Spherical coordinates, change of variables	Worksheet
Nov. 4	Ch. 15	Review for Exam 3	Worksheet
Nov. 6			**EXAM 3**
Nov. 11	16.1 , 16.2	Vector fields, line integration	
Nov. 13	16.3, 16.4	Line integrals, Green's Theorem	Worksheet
Nov. 18	16.5, 16.6	Curl, divergence, parametric surfaces	Worksheet
Nov. 20	16.7, 16.8	Surface integrals, Stoke's Theorem	Worksheet
Nov. 25			Thanksgiving break - no class
Nov. 27			Thanksgiving break - no class
Dec. 2	16.8, 16.9	Stoke's and Divergence Theorems	Worksheet
Dec. 4	ALL	Review for final exam	Worksheet
Dec. ???			**FINAL EXAM**