**Math 2110Q Syllabus**
**Fall 2015**

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**Office hours:** M,W 3-4 PM, or by appointment. Also, video-chat sessions could be set up using *Skype for Business* on the instructor side and regular *Skype* on the student side. Unfortunately, this will not currently work for Mac users.

**Class time and room:** M,W 1:15 - 2:55 PM in ACD 309

**Text:** *Calculus, 7th Edition* by Stewart.

**Homework:** Homework will be assigned for each lecture. We will use the WebAssign system: `www.webassign.net`. 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.

**Quizzes:** These will be administered most classes and will be related to the material covered during the previous lecture (see the schedule below). No quiz grades will be dropped. There will be no make-up quizzes without receiving permission prior to the start of class.

**Calculators:** The use of calculators will not be permitted on exams or quizzes. Calculators may be used on homework.

**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. Not all of the material in the chapters is covered (see below). Each chapter grade is calculated as follows:

| | | |
|---|---|---|
| **Grading:** | Homework | 5% |
| | Quizzes | 5% |
| | Exam | 90% |

HOWEVER, in case an exam grade is an "A-grade", then the exam grade may be used directly as the corresponding chapter grade. 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:** The final exam is scheduled for Dec. 16 from 1-3 PM in ACD 309.

| Date | Book Sections | Topics | Notes |
|---|---|---|---|
| Aug. 31 | 12.1, 12.2 | 3D coordinates, vectors | |
| Sept. 2 | 12.2, 12.3 | Vectors and dot products | Quiz |
| Sept. 7 | | | Labor Day - no class |
| Sept. 9 | 12.4, 12.5 | Cross products, lines, planes | Quiz |
| Sept. 14 | 12.6, 13.1 | Surfaces, vector functions | Quiz |
| Sept. 16 | 13.2, 13.3 | Derivatives, integrals, arc length, curvature | Quiz |
| Sept. 21 | 13.3, 13.4 | Arc length, curvature, velocity, acceleration | Quiz |
| Sept. 23 | 12.1 - 13.4 | Review for exam 1 | Quiz |
| Sept. 28 | | | **EXAM 1** |
| Sept. 30 | 14.1, 14.2 | Functions, limits and continuity | |
| Oct. 5 | 14.3, 14.4 | Partial derivatives, linear approximations | Quiz |
| Oct. 7 | 14.5, 14.6 | Chain Rule, directional derivatives | Quiz |
| Oct. 12 | 14.7, 14.8 | Maxima and minima, Lagrange multipliers | Quiz |
| Oct. 14 | 14.1 - 14.8 | Review for Exam 2 | Quiz |
| Oct. 19 | | | **EXAM 2** |
| Oct. 21 | 15.1, 15.2 | Double integrals, Fubini's Theorem | |
| Oct. 26 | 15.3, 15.4 | General regions and polar coordinates | Quiz |
| Oct. 28 | 15.5, 15.6 | Applications of double integrals | Quiz |
| Nov. 2 | 15.7, 15.8 | Triple integrals | Quiz |
| Nov. 4 | 15.9, 15.10 | Spherical coordinates, change of variables | Quiz |
| Nov. 9 | Ch. 15 | Review for Exam 3 | Quiz |
| Nov. 11 | | | **EXAM 3** |
| Nov. 16 | 16.1 , 16.2 | Vector fields, line integration | |
| Nov. 18 | 16.3, 16.4 | Line integrals, Green's Theorem | Quiz |
| Nov. 23 | | | Thanksgiving break - no class |
| Nov. 25 | | | Thanksgiving break - no class |
| Nov. 30 | 16.5, 16.6 | Curl, divergence, parametric surfaces | Quiz |
| Dec. 2 | 16.7, 16.8 | Surface integrals, Stoke's Theorem | Quiz |
| Dec. 7 | 16.8, 16.9 | Stoke's and Divergence Theorems | Quiz |
| Dec. 9 | ALL | Review for final exam | Quiz |
| Dec. 14 | | | Finals week - no class |
| Dec. ?? | | | **FINAL EXAM** |