

**UNIVERSITY OF MARYLAND**  
Department of Mathematics, College Park  
Calculus II, Spring 2009

**Instructor:** Dr. Lawton

**Email:** [slawton@math.umd.edu](mailto:slawton@math.umd.edu)

**Office:** Math Building 3113

**Course Number:** Math 141, Sections 03xx (4 Credits)

**Lectures:** MWF 1-1:50pm

**Lecture Location:** ARM 0135

**Teaching Assistants:**

- Cynthia Tran ([ctran@math.umd.edu](mailto:ctran@math.umd.edu))--0311 (11-12:20)
- Joel Witten ([jwitten@math.umd.edu](mailto:jwitten@math.umd.edu))--0321 (12:30-1:50)
- Gokhan Civan ([gcivan@math.umd.edu](mailto:gcivan@math.umd.edu))--0331 (2-3:20)
- Christian Sykes ([cmsykes@math.umd.edu](mailto:cmsykes@math.umd.edu))--0312 (11-12:20) & 0322 (12:20-1:50)
- Kijoeng Nam ([kijoeng@math.umd.edu](mailto:kijoeng@math.umd.edu))--0323 (12:30-1:50) & 0332 (2-3:20)

**Office Hours:** Monday & Wednesday & Friday; 2:00-2:55pm

**Website:** <http://www.math.umd.edu/~slawton/141>

**Prerequisites:** A grade of C or better in MATH140 or equivalent; or a grade of B or better in MATH 130 and permission of an undergraduate advisor in the math department. Credit will be granted for only one of the following: MATH131, MATH141 or MATH221.

**Course Description:** Continuation of MATH140, including techniques of integration, improper integrals, applications of integration (such as volumes, work, arc length, moments), inverse functions, exponential and logarithmic functions, sequences and series. There will be an emphasis on student interaction in groups to solve calculus based problems.

**Required Text:** Math 141 comprises Chapters 6-10 of *Calculus*, 6th Edition, by Robert Ellis and Denny Gulick (Thomson Custom Publishing, 2003). The ISBN listed on [Testudo](#) is 978-0-7-5931379-8. The student solutions manual is recommended and a Webassign access code is required, which can be purchased on the web or in the bookstore. The text covers, among other topics, applications of integration (chapter 6), inverse functions (chapter 7), techniques of integration (chapter 8), sequences, series (chapter 9), polar coordinates (chapter 10). The text is written to be read by you. There will also be some discussion of the complex numbers, supplemental material will be provided.

**Format:** Math 141 meets 5 times a week: MWF in large lecture, and TTh in discussion sections (maximum of 21 students) for 80 minutes. Your attendance is required each day. Normally the first 15-20-minute portion of each TTh session is for questions about homework problems; the remainder of the session is devoted to a worksheet prepared especially for that session. You will work in a group of about 4-5 students; the group's task is not only to produce solutions to the worksheet problems but also

to make certain that each group member participates and in the end understands how to solve the problems. Don't be discouraged when you find problems whose solutions do not pop out instantly. Remember that learning takes effort; calculus cannot effectively be learned by just listening to others.

**Homework:** As in Math 140, homework is submitted (and graded) electronically via the software WebAssign (normally) each Tuesday and each Thursday, by 11:00 AM. Other problems from the book are assigned (see below) but generally will not be turned in and graded. Information about WebAssign can be found by going to [www.math.umd.edu/undergraduate/webassign](http://www.math.umd.edu/undergraduate/webassign). Do the initial practice problems to get used to WebAssign. In order to log into WebAssign, go to

<http://www.webassign.net/umd/login.html>

At that point you will need to key in your username, and password. The username and password are exactly what you use to get into the UMD system (as for email, etc.) For generic directions on using WebAssign, go to

<http://www.math.umd.edu/~jow/misc/wadir.pdf>.

**Required Graphing Calculator:** Graphing calculators are an integral part of the course. All sections will require the use of a TI graphics calculator. Instructor will use a TI-83, TI-83+, TI-84, or TI-86 calculator. The preferred types are Texas Instruments calculators (TI-83, TI-84, TI-85, TI-86, and TI-89). We will furnish information about the use of these calculators. NOTE: Neither calculators nor computers are allowed during tests.

**Exams:** There will be 4 50-minute tests; see the schedule below (roughly one after each chapter). The final examination is cumulative, including all material of the course. There may occasionally be quizzes during TTh classes.

**NOTE: THERE ARE NO MAKEUPS FOR TESTS OR QUIZZES.**

**Honor Code:** The UMD Code of Academic Integrity is administered by the Student Honor Council. The Code sets standards for academic integrity. You will be asked to write and sign the following honor pledge on each quiz and exam unless exempted by your instructor: "I pledge on my honor that I have not given or received any unauthorized assistance on this quiz/examination." Note that copying solutions from other sources is plagiarism.

### **Grading:**

ASSIGNMENT	MAXIMUM POINTS
Top three 50-minute test scores	300
Lowest 50-minute test score	50
Online homework and TTh classwork (e.g., worksheets, etc.) (lowest 3 worksheets and lowest 3 HW will be dropped)	150
Final examination score	200
Total possible number of points	700

Course grades are expected to be approximately: A: 90%- 100%; B: 80%-89%; etc. (with cutoffs possibly slightly lower)

**Doing Well:** To do well in this course, it is essential that you come to class, do at least the assigned homework, read the sections of the book that we cover, and ask questions in class. It will additionally be helpful to form study groups. We move quickly in this course, so do not get behind. If you do, please contact me immediately for help.

**Resources:** Students who have a documented learning disability and need special accommodations must turn in the Disability Support Service (DSS) forms to their instructor at the beginning of the session. For further information see <http://www.counseling.umd.edu/DSS>. At <http://www.counseling.umd.edu/LAS> you can find information about getting help with exam preparation, study skills development, and coping with math anxiety.

The math department offers free walk-in tutoring; the schedule will be at:

<http://www.math.umd.edu/undergraduate/resources/tutoring.shtml>.

Also see <http://db.math.umd.edu/testbank> for old exams to practice.