

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

**Instructor:** Dr. Lawton

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

**Office:** Math Building 3113

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

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

**Course Number:** Math 141H, Section 0101  
(4 Credits)

**Lectures:** MF 9-9:50am and W 9-10:50am

**Lecture Location:** MTH 0405

**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. Intended for general honors students only.

**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.

**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). There will also be some discussion of the complex numbers, supplemental material will be provided.

**Format:** Math 141H meets 3 times a week: MF in small lecture/discussion, and W for an extended period. Your attendance is requested each day. During part of the extended period we will at times work in small groups together.

**Homework:** As in Math 140H, homework is submitted (and graded) electronically via the software WebAssign. See the calendar for due dates--generally the assignments are due by midnight on the class period after the lecture occurred. 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.

**NOTE: THERE ARE NO MAKEUPS FOR TESTS** (although arrangements can be made for a university sanctioned absence).

**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 (lowest 50-minute test score will be dropped)	300
Online homework (lowest 3 HW will be dropped)	100
Final examination score	200
Total possible number of points	600

Course grades are expected to be approximately: A: 90%- 100%; B: 80%-89%; etc. The cut-offs may be possibly slightly lower, but this will not be determined until the end of the semester.

**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.