

Math 1131

Calculus I

Instructor: Ben Salisbury

Contact Information

Office	MSB 419A
Office Hours	Monday through Wednesday 2:30-3:30 or by appointment
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Meeting Times: Monday 12:00-12:50 in GEN 425 and Tuesday/Thursday 9:30-10:45 in MSB 403

Text: *Calculus, Early Transcendentals, Volume I* by James Stewart (6th Edition), with *WebAssign* code.

A note about the text: You can buy Volume 1 of the Stewart text at the UConn Co-op, online directly from the publisher (with a discount), and many other places. CAUTION: Make sure you get *WebAssign* codes bundled with the text as they cost about \$25 each semester when purchased separately. Volume 1 of Stewart is used only for Math 1131. You will need to purchase Volume 2 for Math 1132 and the multivariable volume for Math 2110. We chose the single volumes as the recommended text since we were able to have *WebAssign* codes (for one semester) bundled with each single semester text. However, you are able to purchase combined versions (a complete single-variable version for Math 1131-1132 or one large, heavy book for 1131-1132-2110) but make sure you get two or three semesters of *WebAssign* codes bundled with them. When bundled with the text, the first *WebAssign* code is free and additional semesters of *WebAssign* codes when bundled with the text cost \$10 each after the first.

The publisher has set up a special web page, <http://uconnmath.tlcservicesites.com>, for UConn students to purchase a text online with the *WebAssign* codes bundled. You can get Volume 1 plus *WebAssign* for about \$65. You can also purchase the combined Volumes I and II with *WebAssign* at a discount.

Calculator: A graphing calculator will be needed for this course (TI-82, 83, 85 or 86 are recommended).

Homework and WebAssign: You will need a login ID and password from your instructor plus a *WebAssign* code to register online. A link to *WebAssign* can be found on the class web page. Change your password immediately by going to "My Options". You can get help using *WebAssign* from your instructor or at the Q-Center. There will be homework assignments for each section of the text. Each assignment will be made available on WebAssign several days before the section is covered in class. The DUE DATE for each assignment will be

set by your instructor and will generally be a couple of days after the material is covered in class. You will get 5 attempts to answer each question. After each attempt you will be told whether your answer is correct or not. Full solutions will be available on *WebAssign* after the due date. If you are not able to get the correct answer after two or three attempts, we recommend that you seek help from your instructor, the Q-Center, a tutor, or another student.

The due date and specific HW assignments will be posted on the course webpage.

Grading:

Homework	<i>WebAssign</i>	20%
Quizzes	Thursdays	5%
Exam 1	Common evening exam	20%
Exam 2	Common evening exam	20%
Final Exam	Common	35%
Gateway Exam	Differentiation	0% (see note)

- The **evening exams** will be held in **CLAS 110** from 6-8pm on **October 14** and **November 18**. The dates and times are listed in PeopleSoft, but not the rooms. Common make up exams will be held from 8-10pm on the same days as the exams. Permission from your instructor is required. The final exam is tentatively scheduled for December 9 at 10:30am.
- The **Gateway Exam** will be available in the Mathematics MacLab (MSB 203) on *WebAssign* beginning around October 21. There will be an open period from October 21 through November 15 during which the gateway exam may be repeated (as often as needed) in the MacLab. Practice versions of the gateway exam may be taken online from *WebAssign*. These practice versions are from the same test bank as the actual exams and will be graded online.
 - **Failure to pass the Gateway Exam will lower the course grade by one full letter grade.**
 - Calculators are NOT allowed.
 - It is a pass/fail exam.
 - Exam on *WebAssign* in MacLab MSB 203 through November 15.

Course Outline			
1	8/25	1.1	Four Ways to Represent a Function
		1.2	Mathematical Models
		1.3	New Functions From Old Functions
		1.4	Graphing Calculators
		1.5	Exponential Functions
2	9/1	No Class	Labor Day
			1.6
			2.1
		2.2	Limits
3	9/8	2.3	Limit Laws
		2.4	Definition of a Limit
		2.5	Continuity
4	9/15	2.6	Limits at Infinity
		2.7	Derivatives and Rates of Change
		2.8	Derivative of a Function
5	9/22	3.1	Derivatives of Polynomials & Exponential Functions
		3.2	Product and Quotient Rules
		3.3	Derivatives of Trigonometric Functions
6	9/29	3.4	The Chain Rule
		3.5	Implicit Differentiation
		3.6	Derivatives of Logarithmic Functions
	10/6	3.7	Rates of Change in the Natural and Social Sciences
7		3.8	Exponential Growth and Decay
			Review for Exam I
8	10/13		Review for Exam I
	10/14		Exam I, 6-8 PM
		3.9	Related Rates
		3.10	Linear Approximations and Differentials
9	10/20	4.1	Maximum and Minimum Values
		4.2	Mean Value Theorem
		4.3	How Derivatives Affect the Shape of a Graph
10	10/27	4.4	L'Hôpital's Rule
		4.5	Summary of Curve Sketching
		4.6	Graphing with Calculus and Calculators
11	11/3	4.7	Optimization Problems
		4.9	Antiderivatives
		5.1	Areas and Distance
12	11/10	5.2	The Definite Integral
		5.3	Fundamental Theorem
			Review for Exam 2
13	11/17		Review for Exam 2
	11/18		Exam 2, 6-8 PM
		5.4	Indefinite Integrals and the Net Change Theorem
	11/24	No Class	Thanksgiving
14	12/1	5.5	The Substitution Rule
			Review for final exam

Course Policy on Academic Integrity¹: A fundamental tenet of all educational institutions is academic honesty; academic work depends upon respect for and acknowledgement of the research and ideas of others. Misrepresenting someone else's work as one's own is a serious offense in any academic setting and it will not be condoned.

Academic misconduct includes, but is not limited to, providing or receiving assistance in a manner not authorized by the instructor in the creation of work to be submitted for academic evaluation (e.g., papers, projects, and examinations); any attempt to influence improperly (e.g., bribery, threats) any member of the faculty, staff, or administration of the University in any matter pertaining to academics or research; presenting, as one's own, the ideas or words of another for academic evaluation; doing unauthorized academic work for which another person will receive credit or be evaluated; and presenting the same or substantially the same papers or projects in two or more courses without the explicit permission of the instructors involved.

A student who knowingly assists another student in committing an act of academic misconduct shall be equally accountable for the violation, and shall be subject to the sanctions and other remedies described in The Student Code (vm.uconn.edu/dosa8/cod2.html).

Q-Center: Free tutoring services can be found at the Q-Center, located either in the Homer Babbidge Library's Learning Resources Center, 1st (Umbrella) floor or in the Sunroom in Northwest Dining Hall. The Q Center is now also maintaining a list of private tutors for math and other Q courses on the website <http://qcenter.uconn.edu/private.htm>.

Students with Disabilities: Please inform your instructor as soon as possible of any special needs that you may have. You will be expected to bring in a letter from the Center for Students with Disabilities.

¹Copied from The Student Conduct Code.