Applied Calculus I
Loyola University Chicago – Math 131.009 – Fall 2012
Course Syllabus & Ground Rules

Course Details
Class Meetings: Mundelein Center, Room 204; Tu/Th 1:00–2:15 p.m.
Office Hours: Loyola Hall, Room 302; Tues. 3:00–5:00 p.m. & Wed. 2:00–4:00 p.m.

FINAL EXAM:
• when: Thursday, December 13, 1:00–3:00 p.m.


Instructor Coordinates
Aaron Lauve
Loyola Hall, Room 302 lauve@math.luc.edu
773.508.3727 www.math.luc.edu/~lauve

Contact
Communication by email is preferred. Include 131 in the subject line. Expect a reply within 48 hours.

Course Web Page(s)
Section-specific material be posted here: www.math.luc.edu/~lauve/courses/131-fa2012/.
See also the department page: www.luc.edu/math/coursepages/math131/.

Important Dates
In-term exam dates are tentative. Scheduled dates will be announced at least a week in advance.

| Exam #1 | September 27 | Fall break | 10/9 |
| Exam #2 | October 30  | Last day to drop with a “W” | November 2 |
| Final Exam | December 13 | Thanksgiving | 11/22 |

Requests to reschedule your final exam will be heard only for extenuating circumstances (e.g., three exams in one day is not deemed burdensome enough) and must be made through your Dean’s office.

Course Catalog & Syllabus
COURSE CATALOG. Math 131 (3 units): An introduction to differential and integral calculus, with an emphasis on applications. This course is intended for students in the life and social sciences, computer science, and business. Topics include: modeling change using functions, including exponential and trigonometric functions; the concept of the derivative; computing the derivative; applications of the derivative to business and life, social, and computer sciences; and an introduction to integration. (This course is not a substitute for Math 161.) Prerequisites: Math 118 or Math Placement Test.

SYLLABUS. Most of Chapters 1–5 in the text.
gauss.math.luc.edu/info/courses/fall/2012/detail/#16-MATH131
Technology

A TI-84 Plus or equivalent graphing calculator is required for this course. I am also likely to use Mathematica during class. I will be happy to help you learn more about any tool that I use in class. Get it for *free* here: myits.luc.edu/mathematica.

Course Components

HOMEWORK. Students will work homework exercises using the online system WileyPLUS, which has the following nice pedagogical features: (i) instant feedback if your solution is incorrect; and (ii) answers and solutions are provided after a number of failed attempts. From https://www.wileyplus.com, follow the “Register” link under “Students” and use http://edugen.wileyplus.com/edugen/class/cls284083/ to register. No grade will be assigned for the homework. The assignments posted there are solely for your benefit. For those late in obtaining codes: WileyPLUS is free (no code needed) until September 10.

QUIZZES. Based partly on homework and aimed at fostering a deeper understanding of the material. These quizzes will be worked in groups at the start of class on most Thursdays, followed by a short class discussion. Only your top 5 scores will be used to compute your final grade. A maximum score on this component of your grade will amount to 6% extra credit.

EXAMS. There will be two cumulative in-term exams. The final exam will be cumulative, and will be treated as two in-term exams. The lowest of your four in-term exams will be dropped, the rest will count as 33⅓% each, for a total of 100%.

Course Grade

Final grades will be assigned as follows (all numbers are in %):

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<tr>
<th>Grade</th>
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<tr>
<td>A</td>
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<td>A-</td>
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<td>B</td>
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<td>B-</td>
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<td>C+</td>
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<td>C</td>
<td>(72)</td>
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<td>(60)</td>
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Getting Help

It may take awhile to adjust to the different style and pace of the course. My first piece of advice is to use your book well: learn the definitions and read the examples’ solutions; do not be satisfied with the WileyPLUS assignments, but instead work the “Review Problems,” “Check Your Understanding,” and “Project” sections at the end of each chapter.

Please, SEEK HELP if you are falling behind. Form study groups, visit the Tutoring Center (www.luc.edu/tutoring/), come to my office hours, meet me outside of my office hours, find online resources (e.g., patrickjmt.com), give me feedback, etc.

Escape Routes

At any time, even after the last date for W-dropping the course, students who are experiencing medical or personal difficulties should not hesitate to consult their advisors or the Student Development Office or their dean. Don’t allow yourself to be overwhelmed by such problems; Loyola has resource persons who may be able to help you (www.luc.edu/wellness  www.luc.edu/bct)

Disability Services

The Americans with Disabilities Act (ADA) is a federal statute that provides comprehensive civil rights protection for persons with disabilities. It requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring accommodation, please contact the SSWD office: in the Sullivan Center, suite 117, phone 773.508.3700, fax 773.508.3810, or online at www.luc.edu/sswd/.
Academic Integrity
The Academic Standards and Regulations web page
www.luc.edu/academics/catalog/undergrad/reg.shtml
outlines the definition and ramifications of cheating at Loyola University (the “Academic Integrity” link) as well as the recourses available to you should you be accused of cheating (the “Academic Grievance Procedure” link). By attending this course, you agree to uphold the high standards of Loyola. If you are found cheating on an exam, you will receive a zero (0) for the exam and the incident will be reported to your academic dean and recorded in your permanent file.

Course Etiquette
Sleeping in class happens and is always forgiven. Reading newspapers or surfing the web is impolite and is a distraction to your instructor; please find a better use for your time. Please set your cell phones to “silent” upon entering class; these are a distraction to everyone. Likewise, talking with your neighbor while I am lecturing is unacceptable.

Finally, and most importantly, respect for others is stressed above all else; please allow me the first chance to answer your fellow students’ questions. I expect everybody to participate in class discussions, but that begins by fostering an environment where we do not hesitate to ask our questions.

Odds and Ends
MAKE-UP QUIZZES/EXAMS. No make-up quizzes will be given. If a real emergency or University-sponsored event arises which prevents you from appearing at a scheduled examination time, you must notify me prior to the next regularly scheduled class (and before the examination if possible). Make-up examinations will be administered only at my discretion. Failure to appear for a make-up at the mutually arranged time, no further opportunities will be extended. Failure to contact me as stated above or inability to sufficiently document the extenuating circumstances of your absence will result in a grade of zero on the examination.

LOYOLA EMAIL. On the occasion that I need to contact students outside of class, this is the only sensible way to proceed. If you would rather not use your @luc.edu email account, ... tough! If you are unable to receive my email messages, please let me know.

MORE MATH. The department maintains a BLOG (blogs.luc.edu/mathstats) and a FACEBOOK page (www.facebook.com/lucmathstats) that will contain interesting math/stats related tidbits throughout the semester. Feel free to join the conversation. (Indeed, if there is a topic that you’d like to see discussed, send an email to webadmin@math.luc.edu and we’ll try to get a post up about it.)

The Tutoring Center
The Center for Tutoring & Academic Excellence (CTAE) offers two varieties of tutoring services for Calculus: free Small Group Tutoring as well as Tutor-Led Study Hall. To learn more or request tutoring services, visit the center online at http://www.luc.edu/tutoring.

SMALL GROUP TUTORING Students will meet weekly with their small tutoring group, which will include other students from the same course, to enhance their exposure to and interaction with course material. These sessions will be guided by a trained peer tutor. These groups are most successful when students join early in the semester. Students can request small group tutoring on the CTAE website after August 20th.

TUTOR-LED STUDY HALL Beginning shortly after the start of the semester, Tutor-Led Study Hall for intro-level classes in our high-demand subjects (accounting, biology, chemistry, economics, mathematics, select nursing classes, physics, and statistics) will be offered several hours a week to provide additional assistance to students with questions that arise between small group and class meetings. Students can find our Tutor-Led Study Hall hours on the CTAE website. Sessions begin on August 27th.