

Information Sheet for Fall Semester, 2017

Math 2413 Calculus I

Instructor: B. D. Daniel

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On campus Office Hours: By appointment

On-line Office Hours: TBA

Text - *Calculus - Early Transcendental Functions*, 6th Edition, by Larson and Edwards

Catalog Description - Functions, limits, derivatives of algebraic, trigonometric, exponential and logarithmic functions, curve sketching, related rates, maximum and minimum problems, definite and indefinite integrals with applications.

Prerequisites - Grade of C or better in MATH 2312 or its equivalent

Exams - There will be 2 major (take-home) exams. The comprehensive final is one of these two. Dates for exams are given in the Semester Schedule. Their average will constitute 100 points.

Final Exam - Final/Exam 2 is December 11-12.

Technology/Access Requirements – You will need a reliable internet connection, access to Blackboard and Webassign, and use of microphone and camera.

Written assignments – Four written assignments will be given throughout the semester. You will have to formulate your response(s) and upload it to Blackboard in pdf. Your written assignments will constitute another 100 points. Dates for all written assignments are given in the Semester Schedule.

Daily Grades - Homework (on Webassign) will be regularly given; the average (Total points scored on homework assignments / Total number of points available on homework assignments) of these will count 100 points.

* All exams, written assignments, and homework will be given using the Webassign system and/or Blackboard. I have prepared a semester schedule for our course. It is very important that you familiarize yourself with important due dates.

Make-up Policy - A student must have a university-approved excuse to make up any missed work. No exceptions.

Course Grade - There are 300 total points available this semester. If you get 90%, you are guaranteed an A, 80% a B, 70% a C, and so on. You should assume that there will be no curve. There is no extra credit available.

Communication - As the course is 100% online, my primary mode of communication is email. I primarily use the address above: dale.daniel@lamar.edu I will closely monitor this account Monday through Friday. I will attempt to reply to all emails to this account within 24 hours.

Grade Reporting - The Written Assignments and major exams have restricted available times (usually 48 hours). All Webassign assignments are available from the beginning of the course. But I will not grade any assignment until after the due date. All grades will be posted in the Grade Center in Blackboard.

Office Hours - I will be holding online office hours – in Blackboard Collaborate – as needed. You can join me and ask questions about homework or anything else about our class. (Of course you can still also just e-mail me at any time.)

Sources for Help:

1. I will try to help you in any reasonable way. Do not hesitate to contact me!
2. If you are on campus, there is a tutoring lab located on the second floor of the Lucas building.
3. The department (Lucas 200) maintains a list of private tutors available for one-on-one or group tutoring.
4. There will be online office hours offered by me and/or a course TA.
5. LU provides free access to the online tutoring service SMARTHINKING, from any internet connection <http://smarthinking.com>.

Your SMARTHINKING login is your My Lamar email address (@lamar.edu). Your SMARTHINKING password is:

YY- 2-digit year of birth

MM- 2-digit month of birth

DD- 2-digit day of birth

“&” (Use the & with no quotations)

Last initial – capital letter

First initial – capital letter

Last 4 digits of your social security number

Example: John Doe Born January 25, 1981 Social Security Number 1234567890

John Doe's Password: 810125&DJ7890

Student Learning Outcomes: Upon completion of the course, students will:

1. Develop solutions for tangent and area problems using the concepts of limits, derivatives, and integrals.
2. Draw graphs of algebraic and transcendental functions considering limits, continuity, and differentiability at a point.
3. Determine whether a function is continuous and/or differentiable at a point using limits.
4. Use differentiation rules to differentiate algebraic and transcendental functions.
5. Identify appropriate calculus concepts and techniques to provide mathematical models of real-world situations and determine solutions to applied problems.
6. Evaluate definite integrals using the Fundamental Theorem of Calculus.

7. Articulate the relationship between derivatives and integrals using the Fundamental Theorem of Calculus.
8. Compute the limit of a function;
9. Interpret various definitions of a derivative including rate of change, slope of tangent line, and velocity;
10. Find first order and higher order derivatives using the quotient rule, product rule, chain rule, and implicit differentiation;
11. Find tangent lines, related rates, linear approximations, and solve optimization problems;
12. Identify intervals of increase, decrease, and concavity for a function;
13. Apply the Mean Value Theorem and L'Hopital's Rule;
14. Compute definite and indefinite integrals, using various methods including the substitution rule;
15. Find volumes of solids of revolutions using rings and shells.

Core Curriculum Outcomes: Upon completion of this course, the student will demonstrate his or her abilities to think critically, communicate quantitative information, and apply mathematical concepts:

1. Critical Thinking: Develop a logical, consistent plan to solve a problem, recognize consequences of the solution, and articulate a reason for choosing solution method.
2. Communication Skills: Use and present quantitative information in connection with an argument or problem solution and explicate it in an effective format.
3. Empirical and Quantitative: Construct and present a detailed problem statement with evidence of relevant contextual factors and possible approaches for solving the problem, then implement a solution and review the results.

Other Important Information for Students:

Lamar University expressly prohibits intimidation and harassment of students, faculty, staff, or applicants. <http://students.lamar.edu/academic-support/code-of-conduct.html>

Drop Policy: Please make note of the three dates indicated in this drop policy. Any drop will be your responsibility; I will not drop a student from the course.

September 13, 2017: (Census Date-Six Drop Rule does not apply) A student may drop or withdraw without consulting with the instructor. The Six Drop Rule does not apply to a drop before 5:00 PM.

September 29, 2017: (Six Drop Rule applies) A student may drop or withdraw from the course without academic penalty and receive a Q, however, the Six Drop Rule applies. The student will consult with the instructor and the Records Office to initiate a drop.

November 3, 2017: (Six Drop Rule applies) Last day to drop or withdraw with academic penalty; the student must be passing the course at the time of the requested drop in order to receive a Q. The drop form, including all required signatures, must arrive in the Records Office by no later than 4:00 PM. No drop is allowed after this date except in extreme extenuating circumstances. Any "late drop" must be approved by the instructor, department chair, college dean, and provost.

Academic Integrity: Students are expected to maintain complete honesty and integrity in their academic experiences both in and out of the classroom. Any student found guilty of dishonesty in any phase of academic work will be subject to disciplinary action. Students are specifically warned against all forms of cheating and plagiarism. The *Lamar University Student Handbook* clearly reads: "Any student found guilty of academic dishonesty in any phase of academic work

will be subjected to disciplinary action. Punishable offenses include, but are not limited to, cheating on an examination or academic work which is to be submitted, plagiarism, collusion, and the abuse of source materials.” One aspect of the *Handbook*’s definition of cheating includes “purchasing or otherwise acquiring and submitting as one’s own work any research paper or other writing assignment prepared by an individual or firm.” Plagiarism is defined as “the appropriation and the unacknowledged incorporation of another’s work or ideas into one’s own and submitted for credit.” Faculty members in the College of arts and Sciences investigate all cases of suspected plagiarism. Any student who is found cheating in this course will receive a course grade of F.
<http://students.lamar.edu/student-handbook.html>

Accommodations through the Disability Resource Center: Lamar University is committed to providing equitable access to learning opportunities for all students. The Disability Resource Center (DRC) is located in the Communications building room 105. Office staff collaborate with students who have disabilities to provide and/or arrange reasonable accommodations. If you have, or think you may have, a disability (e.g., mental health, attentional, learning, chronic health, sensory, or physical), please contact the DRC at [409-880-8347](tel:409-880-8347) or drc@lamar.edu to arrange a confidential appointment with the Director of the DRC to explore possible options regarding equitable access and reasonable accommodations. If you are registered with DRC and have a current letter requesting reasonable accommodations, we encourage you to contact your instructor early in the semester to review how the accommodations will be applied in the course.
<http://www.lamar.edu/disability-resource-center/>

Incomplete Grades: The grade of "I" may be given when any requirement of the course, including the final examination, is not completed. Arrangements to complete deficiencies in a course should be made with the instructor prior to the end of the semester or term. Incomplete work must be finished during the next long semester or the Records Office will change the "I" to the grade of "F." While the extension may be granted by the instructor with the approval of his/her Department Chair and Academic Dean, once the "I" is changed to an "F" it cannot be changed back to an "I." In this case, either a "change of grade" procedure must be initiated or the course must then be repeated if credit is desired. The instructor may record the grade of "F" for a student who is absent from the final examinations and is not passing the course.

Campus Closure: In the event of an announced campus closure in excess of four days due to a hurricane or other disaster, students are expected to login to Lamar University's website's homepage for instructions about continuing courses remotely. <http://lamar.edu>

Emergency Procedures: Many types of emergencies can occur on campus; instructions for severe weather or violence/active shooter, fire, or chemical release can be found at:
<http://www.lamar.edu/about-lu/administration/risk-management/index.html>

Following are procedures for the first two:

Severe Weather:

- Follow the directions of the instructor or emergency personnel.
- Seek shelter in an interior room or hallway on the lowest floor, putting as many walls as possible between you and the outside.
- If you are in a multi-story building, and you cannot get to the lowest floor, pick a hallway in the center of the building.
- Stay in the center of the room, away from exterior walls, windows, and doors.

Violence/Active Shooter:

- **CALL** - 8-3-1-1 from a campus phone (880-8311 from a cell phone). Note: Calling 9-1-1 from either a campus phone or cell phone will contact Beaumont City Police Dispatch rather than University Police.
- **AVOID**- If possible, self-evacuate to a safe area outside the building. Follow directions of police officers.
- **DENY**- Barricade the door with desks, chairs, bookcases or any other items. Move to a place inside the room where you are not visible. Turn off the lights and remain quiet. Remain there until told by police it is safe.
- **DEFEND**- Use chairs, desks, cell phones or whatever is immediately available to distract and/or defend yourself and others from attack.

Course Evaluations: You will have an opportunity to evaluate all aspects of this course in a formal process to be completed online near the end of the term. You will receive an email reminder through your LU account.

While I have made a sincere effort to ensure that this syllabus is correct, changes may be required. I will announce any substantive changes in a Blackboard announcement. If you find an error or omission, please advise me at once so that the other members of the class may be advised.