Math 1530 Differential Calculus

Fall 2020 Dual Enrollment Syllabus

# LSU Instructor of Record

Insert name and email address

# Course Website

[www.math.lsu.edu/programs/CollegeReadiness/DualEnrollment](http://www.math.lsu.edu/programs/CollegeReadiness/DualEnrollment)

# Course Eligibility

To be eligible to enroll in Math 1530, a student must earn a score of 76% or greater on the ALEKS Calculus Placement Test. That score must be “fresh” which means it must be less than 6 months old on the first day of class of the semester in which the student enrolls. For details about the placement test, see <https://www.math.lsu.edu/ugrad/ALEKS>.

# Course Design Overview

* High school facilitators will present course content part of the face-to-face time, and students will work individually with facilitator guidance in a lab environment the remaining time.
* Homework, quizzes, tests, and the Final Exam will be completed online using a web-based learning and assessment system called MyMathLab (MML).

# Integrated Learning Core

Integrated learning allows students to make simple connections among ideas and experiences and across disciplines and perspectives. The LSU Integrative Learning Core (ILC) curriculum is designed to develop student abilities to transfer their learning to new situations and demonstrate a sense of self as a learner. A fundamental goal of the ILC is to foster students’ practical and intellectual capacities associated with integrative learning in preparation for high competence and functionality in their post-baccalaureate careers. This course fulfills the Louisiana Board of Regents (BoR) Area of Mathematical/Analytical Reasoning and provides students experience with the ILC proficiency of Quantitative Literacy. The Louisiana Board of Regents Common Course Number for this course is CMAT 2113.

# Required Materials

* **MyMathLab** online accountwhich includes the eText, **Briggs, Cochran *Calculus with Early Transcendentals, 3e***

You will need to install the Wolfram CDF Player on your computer in order to access the ebook. A link is provided in MML.

* **Your LSU email address** which must be used in MyMathLab as your email address
* The **course ID#** for your section of the course which will be given to you by your facilitator
* A **non-graphing scientific calculator**

The **TI30XIIS** (solar) **or the TI30XIIB** (battery) with a two-line display is preferred. Graphing calculators are NOT allowed. Also, calculators with symbolic notation or natural display capabilities, such as the TI-36XPro and any of the TI Multiview series, Casio Natural Display series or ClassWiz series, HP SmartCalc series, and Sharp Writeview series are NOT allowed.

* **Items Needed When Testing Using ProctorU**

If your high school is not able to proctor your tests following LSU testing protocol, you will need to use a third-party testing service. That process will require you to have a computer with a high-speed internet connection, a webcam (internal or external), a microphone (internal or external), headphones or working speakers, a quiet place to test, and a Windows or Apple Operating System. You will be responsible for any fees associated with this service, which are usually $5 - 15 per exam.

# MyMathLab Tips

* It is possible that at some point during the semester you will not be able to access your account in MyMathLab by going to [www.mymathlab.com](http://www.mymathlab.com) and selecting “Sign In” on the upper right side. In this situation, you can try using [www.mathxl.com](http://www.mathxl.com) but be sure to login as a MyMathLab user using the small link in the middle of the right side of the login screen, not as a MathXL user.
* If you need technical assistance with MyMathLab, call student technical support call at 1 844 292 7015. Another option would be to chat with MyMathLab technical support via <https://support.pearson.com/getsupport>.

# Moodle

LSU uses a course management tool called Moodle to give you access to your grades and other important course information. You will also find resources such as information on predicting your final grade and accessing your transcript. Your high school facilitator should help you to access Moodle for the first time. You will be required to complete a final course evaluation survey in Moodle.

# Topics

Topics included in this course are limits and continuity, introduction of the derivative, techniques of differentiation, chain rule, implicit differentiation, differentiation of transcendental and inverse functions, applications of differentiation, concavity, relative extrema, and maximum and minimum values of a function.

# Homework

* You should review your class notes and read the etext before attempting the homework.
* When working your homework assignments, you should save after completing each exercise.
* You can re-work exercises, enter and exit your homework, and get back to it at a later time prior to the due date.
* The work you submit must be your own. Your work must be independently written and entered into MyMathLab. You are prohibited from using any additional online or third party resources to get answers to homework exercises. This is a violation of the Code of Student Conduct.
* If you rely on the learning aids or other help to get an exercise correct, then use the Similar Exercise feature and rework the exercise repeatedly until you can get it correct without any help. This is essential. Many students who become overly dependent on the learning aids or other assistance to get a score of 100% on the homework assignment find that they score much lower on the tests.
* The homework counts as 15% of your course grade. Your two lowest homework assignments will not be used in the course grade calculation (even though those scores show in the Moodle gradebook).
* Graded homework for each section has due dates and will close then, but a copy of each homework assignment (labeled Practice Homework) is open throughout the semester to be used for studying. The Practice Homework does not count toward your course grade.
* An additional practice homework assignment called Practice What You Missed on Test x is created when you submit each test. This does not count toward your course grade, but you should use it to practice what you missed on the test in preparation for the Final Exam.

# Quizzes

* You should master your homework before attempting the quizzes, and you should try to do the quizzes without any help. If you rely on help to get a score of 100% on the quizzes, you will score much lower on the tests.
* You will not get feedback after each exercise answer is entered. You must work through the quiz and submit it before seeing your score. You can review your quiz in Gradebook, and the MyMathLab learning aids will appear for the review.
* Quizzes should be used as preparation for tests. Re-take the quizzes until you can do the work correctly without any assistance from notes, the eText, or the MyMathLab learning aids.
* Each quiz contains questions drawn from pools of exercises having the same or similar learning objectives. It is recommended that you take a quiz at least four times even if you earn a score of 100% before that to ensure that you see a cross-section of the exercises.
* The maximum working time allowed for each attempt of each quiz is 75 minutes. While working on a quiz with time remaining, you can close the browser (rather than choosing Submit) and re-open that same quiz later without any additional elapsed time.
* Each quiz can be attempted up to ten times prior to the due date. Only your highest score for each quiz will be counted in your course grade.
* The quizzes count as 15% of your course grade. Your lowest two quiz grades in Moodle will not be used in the course grade calculation (even though those scores show in the Moodle gradebook).
* You are allowed to consult with other students regarding math concepts but not regarding specific answers to questions.  You may discuss the concepts demonstrated in the quizzes but not share or assist another student in deriving an answer.  Your work must be independently written and entered into MyMathLab.  You are prohibited from using any additional online or third party resources that are not explicitly listed in the syllabus or provided by your teacher.

# Tests and the Final Exam

* The proctored, password-protected tests and the Final Exam are taken using MyMathLab.
* You will not get feedback after each exercise answer is entered. You must work through the test and submit it before seeing your score. You can review your test in Gradebook, and the MyMathLab learning aids will appear for the review.
* After completing all homework and quizzes, you should prepare for tests and the Final Exam by repeatedly practicing until you can get all exercises correct without any assistance from MyMathLab learning aids, notes, or the etext. Practice Tests and a Practice Final Exam are available in MyMathLab for each test and will be open throughout the semester. They do not count toward your course grade, but it is essential that you work the Practice Tests repeatedly until you can do the work without any help.
* Only one attempt is allowed for each test and for the Final Exam.
* The maximum time allowed is 90 minutes for each test and 120 minutes for the Final Exam.
* You are not allowed assistance of any kind on tests or on the Final Exam. This includes notes, formula sheets, or any other type of outside help. While testing, you are not allowed to access other online materials, including your homework, quizzes, and online learning aids in MyMathLab. Remember, academic dishonesty is a violation of the university Code of Student Conduct.
* There will be three tests during the semester and a Final Exam. Your three tests count as 45% of your course grade. The Final Exam counts as 25% of your course grade, with the following exception. Your Final Exam score will be entered in your Moodle gradebook as your Final Exam score and also as a (fictitious) Test 4 score. Then, the lowest of the scores on Tests 1-4 will not be used in the course grade calculation (even though that score shows in the Moodle gradebook). This has the effect of replacing your lowest of the three test scores with the Final Exam score if that Final Exam score is higher. In this situation, your Final Exam score counts as 40% of your course grade, and each of your two highest test grades count as 15% of your course grade.

# Final Grade Calculation for LSU grade\* (posted in Moodle)

| **Weight** | **Category** | **Details** |
| --- | --- | --- |
| 15% | Homework | lowest 2 of 21 homework scores will be excluded |
| 15% | Quizzes | lowest 2 of 10 quiz scores will be excluded |
| 45% | Tests | 3, lowest will be replaced with Final Exam score if higher |
| 25% | Final Exam | cumulative, never excluded |

The Practice Homework, Practice Tests, Practice What You Missed on Test x, and the Practice Final Exam do not count toward the grade in the course. A replaced test grade and dropped homework and quiz grades will always show in the Moodle gradebook but will NOT be used in the Moodle course grade calculation.

\*The high school grade for Calculus may be calculated using different criteria.

# Grading Scale

A+:  98-100%

A:  93-97%

A-:  90-92%

B+:  88-89%

B:  83-87%

B-:  80-82%

C+:  78-79%

C:  73-77%

C-:  70-72%

D+:  68-69%

D:  63-67%

D-:  60-62%

F:  0-59%

Your course grade will be determined by rounding your course average (either up or down) to the nearest whole number using standard rounding procedures.

# Syllabus Changes

The LSU Instructor of Record (IoR) reserves the right to make adaptations to this Syllabus by written notice to the facilitator if the situation regarding the COVID-19 pandemic warrants those changes.