

MATH 2144: Calculus I, Section 001

Instructor: Rosaura Uscanga
Email: rosaura.uscanga@okstate.edu
Office: MSCS 421
Phone Office: 405-744-7338

Class Meeting: MTWR 9:00-10:40AM, CLB 208
Office Hours: MW 12:00-1:00PM in MLSC or by appointment
D2L(Online Classroom): <http://oc.okstate.edu>

Prerequisites: A score of 70 or above on the ALEKS placement exam, or a grade of C or better in either Trigonometry or Precalculus.

Course Objectives: Calculus is the study of functions that relate two varying quantities and the rules that govern the rates at which one of these quantities changes or accumulates as the other changes. Our aim in this course is for students to master the skills of differentiation and basic integration, to understand the underlying concepts, and to be able to use these techniques to solve problems in science and engineering.

Required Materials: (1) Textbook: *Calculus: Early Transcendentals*, 2nd edition, by Jon Rogawski, and (2) Online homework system WebAssign (<http://www.webassign.net/login.html>).

- For Section 001 use WebAssign Class Key: **okstate 3714 9935**.

Expectations and Study Tips: All students are expected to participate and be involved in class, asking and answering questions. During class, cell phones must be turned off and out of sight and must be set to silent operation. You may not make calls, receive calls, send or receive text messages, or take photographs during class. You may not use your phone as a calculator. To learn Calculus, you must strive to understand the purpose and justifications behind the techniques we study, and you must practice the computational techniques until you become proficient. The University expects that you should devote two hours outside of class for every hour in class, so expect to spend *16 hours of study time* in addition to your 8 hours in class each week during the summer session. The following activities will help you and assist your development of calculational skill and conceptual understanding.

- Prepare for class by reading each section in the textbook before class and referring to it afterwards. Take notes on your reading and highlight main points.
- Participate fully in class by taking notes, asking questions, and answering questions posed by your instructor.
- Practice writing out full and complete solutions to the homework exercises, exam review questions, and other assigned problems. You should download each assignment from WebAssign, work out the solutions to the problems in a notebook, and save the solutions for future reference. Then enter the solutions into WebAssign when finished. Trying to “beat” WebAssign by guessing the solutions or taking other shortcuts only hurts your ability to develop the skills and understanding that you need.
- Create a sense of support and a community of learners by forming a study group with classmates.
- Commit fully to doing what it takes to be successful. Don’t fall behind. Start all work well before the due date to allow time to get help if needed. Ask questions and seek help when you need it from members of your study group and other classmates, from your instructor, and from the tutors at the MLSC.

Attendance: Attendance is not required but is extremely highly recommended. Being present and participating in class contribute substantially to your success. There is a 20 point attendance bonus worth 2% of your grade. You will earn the full bonus if you miss 2 or fewer classes, 10 points if you miss 3 classes, and no attendance bonus if you miss 4 or more classes.

Missing Work Policy: I will offer reasonable accommodation in the event that you miss a major assessment activity for a valid and documented reason, assuming documentation is provided in advance

unless absolutely impossible. For a quiz or exam, you need to tell me as soon as you know there is a conflict and will be ineligible for a make-up if you do not. Taking a vacation, even if you already paid for it, is *not a valid justification for excused absence*.

Overlapping Courses: If you have enrolled in a course with a meeting time overlapping with Calculus I, it is your responsibility to obtain missed lecture notes. Unless arrangements are made with me in advance, I will make *zero exceptions* for absences and missing assessment activities due to an overlapping course.

The Mathematics Learning Success Center (MLSC): The MLSC is on the fifth floor of the Edmon Low Library, and is a great resource. The MSLC has tutors who work with students from Calculus I and help you with your question. Hours for Calculus I tutoring:

- Monday through Friday from 12:00 PM until 5:00 PM

Grades: Your grade in this course will be determined by one of two Schemes, whichever produces the higher grade.

	Scheme A	Scheme B
Precalculus Quiz	3%	3%
Differentiation Gateway	5%	5%
WebAssign Online Homework	10%	10%
In-class Quizzes and Assignments	12%	12%
Hour Exams (3)	15% each	10% each
Final Exam	25%	40%

An overall score of 90% guarantees an A for the course, 80% a B, 70% a C, and 60% a D. These cutoffs may be curved slightly if circumstances warrant.

Pre-Calculus Quiz: The Precalculus Quiz will contain 10 questions worth 3 points each, with no partial credit on any question. This quiz tests basic College Algebra and Trigonometry Concepts that you are expected to have mastered prior to entering Calculus I. The Pre-Calculus Quiz is scheduled for **Thursday, June 11th** during class.

WebAssign: All homework will be done online using WebAssign's online homework system. You are encouraged to work together and it is good practice to keep a notebook as you work through WebAssign problems or print out the assignments. This will help when it comes time to study for exams.

Differentiation Gateway: This is designed to ensure that you master the skills of differentiation. The Differentiation Gateway Quiz will contain 7 differentiation problems worth 7 points each and one 1 point question. No partial credit will be earned on any question. The differentiation Gateway is scheduled for **Tuesday, June 30th** during class. Retests on the Differentiation Gateway outside of class will be possible for students who wish to improve their score. Dates and times will be announced.

Exams: There will be three Hour Exams which will take place in class, and a comprehensive Final Exam for this course:

Exam 1	Wednesday, June 24
Exam 2	Wednesday, July 8
Exam 3	Wednesday, July 22
Final Exam	Thursday, July 30

For the exams you are allowed a *calculator* (described below).

Calculators: In this class we allow a graphing calculator to be used on exams as long as it does not have a computer algebra system (CAS), QWERTY keyboard, internet capability, or a camera. For exams we allow a TI-83 and TI-84 calculator, but *TI-89 or Nspire calculators are not permitted*. If you own another type of calculator, please let me know so that I can determine if it is allowable. If you do not own an allowable calculator, you may borrow one from the Math Department (in MSCS 401) without charge. Some quizzes may not allow calculator usage at all.

Academic Integrity: Oklahoma State University is committed to the maintenance of the highest standards of integrity and ethical conduct of its members. This level of ethical behavior and integrity will be maintained in this course. Participating in a behavior that violates academic integrity will

result in your being sanctioned. These behaviors include, but are not limited to unauthorized collaboration or plagiarism; unauthorized advance access to examinations, cheating on examinations, or helping another person cheat; altering or destroying the work of others or fraudulently altering academic records. Violations may subject you to disciplinary action including the following: receiving a failing grade on an assignment, examination or course, receiving a notation of a violation of academic integrity on your transcript (F!), and being suspended from the University. Carefully read the OSU policy at academicintegrity.okstate.edu.

Drop Dates: The last day to drop a class with

- a full refund and with no grade is **Wednesday, June 10th**
- a 50% refund of required tuition and fees and a grade of W is **Friday, June 12th**
- no refund and a grade of W is **Friday, July 17th**
- no refund and a grade of W or F is **Friday, July 24th**

Special Accomodations: If you think you have a qualified disability and need special accommodations, you should notify me as soon as possible and request verification of eligibility for accommodations from the Office of Student Disability Services. For more information, read the OSU Summer 2015 syllabus attachment.

Syllabus Attachment: Please read the OSU syllabus attachment on the web from the page: <http://academicaffairs.okstate.edu/faculty-a-staff> follow the link under Syllabus Attachment for Summer 2015. This has a lot of important information, including instructions about disability accommodations. Please contact me privately during the first week of the course if you need accommodations as the result of a disability.

Any changes to this syllabus will be announced in class, emailed, and posted on D2L.

Class Calendar: Here is a rough calendar of the dates on which each section of the text will be covered. This schedule is tentative and may be adjusted as the semester progresses.

	Mon	Tues	Weds	Thurs
Wk 1	Intro, 1.1–1.4	1.5–1.6	2.1–2.2	2.2–2.3, Precal Q
Wk 2	2.4	2.5–2.6	2.7–2.8	3.1–3.2
Wk 3	3.3–3.4	3.5, Review	Exam 1 , 3.6–3.7	3.8–3.9
Wk 4	3.10–3.11	4.1, Diff Gtw	4.2	4.3–4.4
Wk 5	4.5	4.6, Review	Exam 2 , 4.6	4.7
Wk 6	4.7, 4.9	5.1	5.2–5.3	5.4–5.5
Wk 7	5.6–5.7	5.8, Review	Exam 3 , 6.1	5.8, 6.1, 6.2
Wk 8	6.2, 6.3	6.3, 6.4	Review	Final Exam