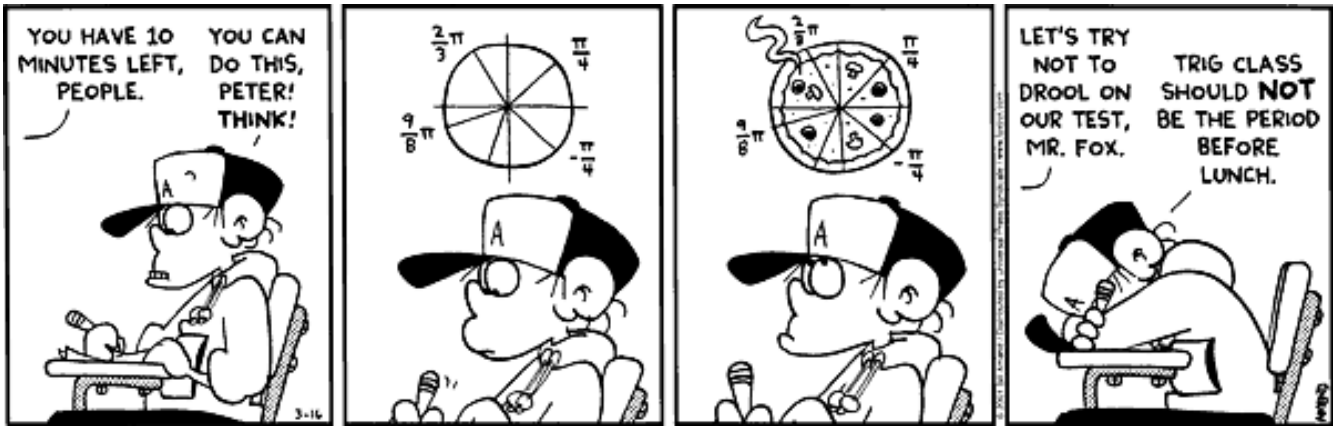
FALL 2016

Oberlin College
College of Liberal Arts and Sciences

MATH 134 Calculus II



Class location: King 321
Class time: 134.01: MTWF: 9:00-9:50 AM
134.02: MTWF: 10:00-10:50 AM

Instructor: Kevin Gerstle
Office: King 202
E-mail: kgerstle@oberlin.edu
Office hours: M: 3:30-4:30pm
T: 11:00am-12:00pm, 1:30-2:30pm
W: 11:00am-12:00pm, 3:30-4:30pm
Th: 9:30-11:30am
and by appointment

Course Description:
Continuation of the study of the calculus of functions of one variable. Topics include logarithmic, exponential, and the inverse trigonometric functions, techniques of integration, polar coordinates, parametric equations, infinite series and applications.

QFR Credit:
This course is a QFR (Quantitative and Formal Reasoning) course. To earn QFR credit, one must pass the course (with at least a D if taken for a grade and C- if taken P/NP).

Prerequisites:
MATH 131-132 or MATH 133

Textbook:
Single Variable Calculus, 8th ed., James Stewart, Cengage Learning, 2016.

While the textbook for this course is technically optional, I *highly* recommend it as a reference source for the class. Copies of the textbook can be checked out from the math office in King 205 for use only within the math office and adjoining math library (King 203).

Blackboard and E-mail:
Class announcements, due dates, and information pertaining to homework, quizzes, and tests will be posted regularly on Blackboard. I expect students to check Blackboard daily.

Students should check their Oberlin e-mail addresses on a daily basis for communications from the instructor. In addition, e-mail should be used to ask questions or schedule appointments outside of the set office hour times. I will respond to e-mails within 24 hours of receipt excepting on weekends.

Calculation of Final Grade:
WeBWorK Homework: 15%
Reflection Homework: 15%
Quizzes: 15%
Midterm 1: 15%
Midterm 2: 15%
Final Exam: 25%

Grading System:
Grades will be assigned based on the following scale:

Letter	A	A-	B+	B	B-	C+	C	C-	D	F	W
Points	4.00	3.67	3.33	3.00	2.67	2.33	2.00	1.67	1.00	0.00	0.0
%	93-100	90-92	87-89	83-86	80-82	77-79	73-76	70-72	60-69	0-59	

Quizzes:
Quizzes will be given weekly and unannounced in lecture. No quizzes will be given during the weeks of in-class exams. The lowest quiz score will be dropped. You may not use any notes during a quiz or discuss the quiz with anyone other than the professor.

Exams:
There will be two midterm exams and a cumulative final exam. The two midterms will each consist of an *in-class exam* and a *take-home exam*. Each take-home exam will be given immediately following the corresponding in-class exam. These two exams will be equally weighted. In-class exams will consist of short questions and computations based on

definitions and known results. Take-home exams will consist of more open-ended questions and challenging computations. The final exam will consist only of an in-class exam.

For the in-class exams, you are not allowed to use any notes or discuss the exam with anyone else but the professor. *You may not use calculators or any electronic devices on in-class* exams. For the take-home exams, you may use your notes and the course textbook but no other written/electronic resources. You may discuss take-home exams only with the professor, and you may use a calculator on take-home exams.

Midterm exams will not be comprehensive; however, earlier material however may be required in order to understand the current material. The final exam *will* be comprehensive.

***For exam, quiz, and reflection homework problems, you are expected to show your work. Answers with no explanation as will not receive any credit.*

**Make-up exams and quizzes will be given only under exceptional circumstances (e.g. illness, religious obligations, certain college activities, or unavoidable circumstances). Please see me as soon as possible if you know you are going to miss a quiz or exam.

Homework:
Homework will be assigned weekly and have two components: WeBWorK homework and Reflection homeworks.

WeBWorK homeworks will consist of online problems through the website WeBWorK. Instructions will be given in class and posted on Blackboard as to how to log in to WeBWorK. WeBWorK questions will consist mainly of computations. I will assign WeBWorK problem sets after each class meeting; these sets will be due in batches once per week. *I highly recommend you work on each problem set within a day of its corresponding class meeting.*

Reflection homeworks will consist of written problems that will be due weekly. Questions on these homeworks will consist of more in-depth problems that test your reasoning and deduction skills rather than simply your ability to carry out calculations.

Reflection homeworks that are not stapled will NOT be accepted. I also expect you to write your name and class section (eg: MATH 134.01) at the top of each homework. Finally, I additionally expect you to write out responses neatly and when possible in complete sentences. If problems on the reflection homework are not written as such, they may not be graded. The lowest reflection homework score will be dropped.

For both WeBWorK homeworks and Reflection homeworks, I encourage you to work with your classmates outside of class time. In my experience, having a small study group that meets regularly can make a big difference in my understanding. However, your write-ups of problems must be your own; it is an Honor Code violation to present someone else's written work as your own.

Participation:
I highly recommend that students make use of opportunities to ask questions in class or present problems at the board when offered. As with all math classes, the more you engage in class, the more you will likely get out of it.

Other Expectations of Student Performance:
I expect that you will behave with respect to the other students in the class and to me. In particular this means turning off (or silencing) your cell phone. You should not be sending text messages or listening to audio devices during class. Those who are disruptive to the class will be asked to leave.

Available Resources:
There are many resources available to help you succeed in this class. I highly encourage you to take advantage of them early and often if you feel you are struggling:

- You are always welcome to come talk to me by coming to my office hours or setting up an appointment.
- Drop-in tutoring is available through the Math Department on Monday-Thursday from 7:30pm-9:30pm in King 237.
- Drop-in tutoring is available through the CLEAR Quantitative Skills center. For more information, please visit http://new.oberlin.edu/office/clear/for-students/drop-in-tutoring/index.dot
- Free tutoring is also available through the Office of Student Academic Services. You are encouraged to contact Kay Knight at x58464 or at her office in Peters 114.

Finally, I encourage you to use your classmates as a resource. In my experience, working with peers is an extremely valuable way to study and learn mathematics.

Disabilities:
The college will make reasonable accommodations for persons with documented disabilities. If you feel you need accommodations, you should notify both the Office of Disability Services located in Peters G-27/G-28 and me of any disability related needs within the first two weeks of class.

Honor Code:
The College requires students sign an Honor Code for all assignments. This pledge states: "I affirm that I have adhered to the Honor Code in this assignment."
I reserve the right to not accept any assignment, quiz, or exam until you have written and signed the Honor Code. For further information, please see the Honor Code at http://new.oberlin.edu/students/policies/honor-system-charter

Course Calendar:

- **Monday, August 29**: First day of classes
- **Monday, September 5**: Labor Day (no class)
- **Thursday, September 8**: Add/drop deadline

- **Wendesday, October 5**: Midterm 1 in-class exam
- **Monday, October 10**: Midterm 1 take-home exam due
- **Wednesday, October 12**: Yom Kippur (no class)
- **Saturday, October 15 - Sunday, October 23**: Fall recess
- **Thursday, October 27**: Midterm grades available on PRESTO
- **Tuesday, November 1**: Last day to declare P/NP or withdraw
- **Friday, November 18**: Midterm 2 in-class exam
- **Wednesday, November 23**: Midterm 2 take-home exam due
- **Friday, December 9**: Last day of classes
- **Wednesday, December 14, 2:00-4:00pm**: Final exam (MATH 134.01)
- **Friday, December 16, 2:00-4:00pm:** Final exam (MATH 134.02)