# Tentative Syllabus: Calculus with Review, Autumn 2017

## Course Description:

This is the first of a two semester course sequence. This semester, topics covered will include differential calculus of one real variable, with review. In most traditional calculus courses, many students struggle with important algebra and pre-calculus concepts. Calculus with Review I is a course designed with an emphasis on reviewing these fundamental pre-calculus skills as they apply to calculus. During the course of the semester, many students may wish to take advantage of this integrated approach and join this course. At the end of the course sequence, students will take a comprehensive final exam covering the material from both this semester and next semester. The material from this semester will be revisited throughout the following semester.

## Course Materials:

**Required Text:** Ximera custom online textbook

**Optional Text:** Printed text for "Ximera custom online textbook"

## How to get help in this course:

**INSTRUCTOR INFORMATION (fill in for your specific instructors):**

**Lecturer**:

**Office:**

**Office Hours:**

**Email:**

**TA:**

**Office:**

**Office Hours:**

**Email:**

## MSLC Free Tutoring Hours:

The Mathematics and Statistics Learning Center offers free tutoring services during the semester in <INSERT HERE>. For information about hours, please go to: <link here!>

## Course Prerequisites:

<To be filled in>

## GE Information:

<To be filled in>

## Course Learning Objectives:

This is the first course of a two-semester sequence. Upon successful completion of the two courses, students will be able to:

1. Demonstrate a thorough understanding of calculus concepts both graphically and analytically
2. Demonstrate a conceptual understanding and computational proficiency of single variable differential calculus.
3. To demonstrate relevant applications of mathematical principles by modelling problems arising in a variety of disciplines using calculus and analyzing their solutions.

## Course Structure:

### Lectures:

On Mondays and Wednesdays, you will attend lectures in which fundamental skills are reviewed and new topics in calculus are presented.

### Recitations:

On Tuesdays and Thursdays, you will attend recitation on the previous lesson. This is where you can ask questions about the course material you have learned and attempt exam-level questions.

## Course Management System:

<To be filled in>

# Grades

| Assignment or category | Points |
|---|---|
| **Final Exam** | **200** |
| **Midterms (100 each)** | **300** |
| **Quizzes (10)** | **80 (10 points each, drop 2)** |
| **Comprehensive Quiz** | **30** |
| **Homework (27)** | **50 (up to 4 bonus points)** |
| **Projects (3)** | **40** |
| **Total** | **700** |

## Grading Scale:

| | | | | | |
|---|---|---|---|---|---|
| A | Above 93 | B- | 80-83 | D+ | 67-70 |
| A- | 90-93 | C+ | 77-80 | D | 60-67 |
| B+ | 87-90 | C | 73-77 | E | Below 60 |
| B | 83-87 | C- | 70-73 | | |

This grading scale will not be raised. Individual assignments, including exams, will not be curved, but the final grading scheme could be adjusted at the ***end*** of the semester. Class participation and effort will be important factors in decisions about borderline grades.

## Exams:

Exams will consist of true/false, multiple choice, short answer, and free-response problems. The exams will be common evening exams given outside of regular class time. The location of the exams will be announced one week before each midterm.

| Exam | Date and time | Make-Up |
|---|---|---|
| Midterm 1 | Wednesday, September 27 | Thursday, September 28 |
| Midterm 2 | Wednesday, October 25 | Thursday, October 26 |
| Midterm 3 | Monday, November 20 | Tuesday, November 21 |
| Final Exam | TBD | TBD |

It is your responsibility to check Carmen regularly. Any material posted there should be considered important for quizzes and exams.

## Make-up Policy:

Makeup exam will only be given in extraordinary circumstances. Excuses due to illness should be accompanied by a doctor's note. Students should contact their instructor as soon as possible in the event a makeup is needed and should always contact the instructor before the exam is given. Documentation of the emergency is required in order for make-up exams and quizzes to be considered for credit.

## Calculator Policy:

**Calculators will NOT be permitted during exams and quizzes**. Cell phones and web-enable devices are also prohibited during exams.

## Quizzes:

Quizzes will be given in recitation and are worth 10 points each. Each quiz will cover both conceptual and computational questions! Some quizzes may have a take-home component as well as an in-class component. The date and sections covered for each quiz is listed on the calendar. You may drop your low two quiz scores.

### Comprehensive Quiz:

There will be a comprehensive quiz given at the beginning of Week 4 that will cover the material in the course up to and including the Analytic Limit Laws. This quiz will focus equally on the graphical and analytical problems presented in the first three weeks of the course. Students enrolled in the course within the second week of classes will be required to take this quiz. To aid in preparation for the quiz, there is a comprehensive review of the first 3 weeks of the course available on the course website <Jim will write this and provide solutions>.

Any students who enroll after the third week of the course will complete a separate review assignment based on the comprehensive review worksheet. Students who have enrolled from the beginning will also have the option to use this to replace their comprehensive quiz score.

### Homework:

There are 26 online homework assignments conducted through Ximera. Each assignment will count as 2 points towards the final course grade. There are 52 total points available through the online homework, though your final homework grade will be out of 50 points. Any points earned over the 50 points will count as extra credit towards your final course grade.

Homework will be due every Tuesday and Friday night by 11:59 PM. The breakdown of the content of the homework assignments will be roughly:

1. 60% material covered since the previous assignment.
2. 20% material covered on the previous assignment.
3. 20% material that either reviews fundamental pre-calculus skills, revisits previous topics from the course, or synergizes material learned at various stages of the course.

The homework is designed to promote a continued review and mastery of all course material.

Students who enter the course after the third week will have to make up all previous assignments by the first exam.

### Projects:

There will be three projects that explore the course material more deeply and incorporate technology into the course. You will be allowed (and are thus encouraged) to work in groups on these!

## Other Course Policies

### Technology Problems:

It is inevitable that technology will sometimes malfunction. Students are responsible for beginning assignments early enough to have time to ask for help with technical issues. Although reasonable accommodations for students when there are technical issues, the student will be responsible for documenting errors and seeking help in a timely fashion from both technical support and the instructor as needed. No accommodations will be made for students who do not work actively to resolve their technical problems in a timely fashion.

### Student participation expectations:

You are expected to check Carmen at least **once every 24 hours on weekdays**. You should plan on working on this course every school day. There are frequent deadlines in this course, and students are expected to keep track of all deadlines. Students are expected to work ahead of those deadlines whenever possible to prevent last-minute problems. Students are expected to attend all recitation meetings.

### Academic Misconduct Statement:

It is the responsibility of the Committee on Academic Misconduct to investigate or establish procedures for the investigation of all reported cases of student academic misconduct. The term academic misconduct includes all forms of student academic misconduct wherever committed; illustrated by, but not limited to, cases of plagiarism and dishonest practices in connection with examinations. Instructors shall report all instances of alleged academic misconduct to the committee. For additional information, see http://studentaffairs.osu.edu/resource_csc.asp

## Accommodations for accessibility

### Requesting accommodations

Students with disabilities that have been certified by the Office of Student Life Disability Services will be appropriately accommodated, and should inform the instructor as soon as possible of their needs. The Office of Student Life Disability Services is located at 098 Baker Hall, 113 W. 12th Ave; telephone (614) 292-3307 and VRS (614) 429-1334; Webpage: http://www.ods.osu.edu