Math 141 **Syllabus** **Fall 2018**

The Instructor

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Introduction

- The class meets in Bagby 111 MWF at 8:30 and Thursday at 12:30.
- The text for the course is Calculus of a Single Variable, 10th ed., by Ron Larson and Bruce H. Edwards.
- The web page for this course is at

  `http://people.hsc.edu/faculty-staff/robbk/Math141`

  Homework assignments and lecture notes will be posted on this web page, not on Canvas.

Prerequisites

- Satisfactory grades in
  - Algebra II
  - Trigonometry
  - Analytic Geometry and/or Pre-calculus
  - A score of 70 or better on the ALEKS placement test.

Grading

Homework will be assigned daily. During the first two weeks, it will be collected and graded every day. Thereafter, it will not be collected. There will be weekly quizzes, three tests, and a final exam. In the final average, these will have the following weights:

Category	Weight
Homework avg	10%
Quiz average	25%
Test average	50%
Final exam	15%

Homework

It is critically important to keep up with the homework. As you do the homework, make an effort to memorize the formulas and the procedures. It is much easier and more effective to memorize a little at a time than a lot at once. What you learn on one homework assignment will be reinforced on later homework assignments.

When doing the homework, make full use of the available resources:

- The textbook
- Your calculator
- The computer
- Fellow students
- Math tutors (in B 111, 8:00 - 11:00, Sun - Thu)
- The instructor

I strongly recommend that you do the homework as soon as possible after class, perhaps during the following period, while the day's lesson is still fresh. I am generally available until 4:30 pm each day. The tutors are generally available in Bagby 111 from 8:00 pm until 11:00 pm, Sunday through Thursday. (The tutors may leave early if there are no students there.) Do not wait until all of your helpers are off duty to begin your assignments.

More importantly, do not put off doing the homework until the night before the quiz. You will not be able to learn that much material in one night and you will not have time to develop your problem-solving skills to a proficient level. Most importantly of all, do not put off doing the homework until the day before a test. By then it is far too late to learn it. If you do not do the homework on a regular basis, then your final grade will be significantly lower than it would have been.

While we are coving the review material, I will collect and grade the homework every day (8 assignments).

At the beginning of each class meeting, except for the days on which the weekly quiz is given (see below), I will spend up to 10 minutes working one or two homework problems in detail from previous assignments. You may request a problem that you would like to see worked. Of course, outside of class, I will help you with as many problems as I can.

Quizzes

While we are covering review material (2 weeks), there will be daily quizzes. The class will begin by briefly going over the homework, followed by a 5-minute quiz. The quiz question will be taken verbatim from the previous night's homework. After we have finished the review material, there will a quiz every Wednesday. Each weekly quiz will be given during the first 10 minutes of class. It will consist of one or more questions taken *verbatim* from the previous week's homework assignments. To receive full credit for a solution, *you must show your work*.

Each daily quiz will carry half the weight of a weekly quiz.

After the first 2 weeks, there will be weekly quizzes, beginning on September 12. Each weekly quiz will be given during the first 10 minutes sof class. Each will contain one or more homework problems taken *verbatim* from the previous week's homework assignments (not the switch from daily to weekly).

Tests

You should make every conceivable effort to be present and prepared for an hour test. If you do not feel that you are prepared, you must take the test anyway. The only valid excuses for missing a test are serious illnesses and unavoidable emergencies which can be verified. If you foresee that you must miss a test, then you should make arrangements, before the absence, to take the test. If you miss a test for a reason that is less than compelling, you will not be allowed to take the test later. If you miss a test, it is essential that you contact me and make arrangements at the earliest possible moment. Failure to follow this policy will invalidate any excuse. The test schedule is as follows:

Test	Date
#1	Fri, Sep 21
#2	Fri, Oct 19
#3	Fri, Nov 16

To receive full credit for a solution, *you must show your work*.

Policy for Making Up Quizzes and Tests

You will be permitted to make up a test or quiz only if it was missed for a valid reason (see Attendance Policy below). Simply not feeling well is not a sufficient

excuse. Make-up quizzes will be given at 4:00 pm of the following class day. Make-up tests will be given at 4:00 pm of the following Monday. Only under extreme circumstances will they be rescheduled.

For quizzes, you will have the option of dropping your two lowest quiz grades *instead of taking any make-up quizzes*. Once you take a make-up quiz, then no quiz grades will be dropped. There is no such option for tests.

Final exam

The final exam will be cumulative. It will be given on Thursday, December 13, from 9:00 a.m. to 12:00 pm in Bagby 111. Everyone must take it and it will not be rescheduled.

Calculators

Any calculator is permitted in this course, including graphing calculators and programmable calculators. However, on tests, you must always show your work, not just the answer, to receive full credit. Therefore, always be able to work the problems without a calculator.

Attendance Policy

Read the Class Attendance policy in the Academic Catalogue. Attendance will be checked at the beginning of each class. If you arrive late, you will be counted absent. If that happens and you would like to be marked present, see me after class and I will mark you "late," not "absent." Otherwise, late arrivals and absences will all count as absences. Each late arrival counts as half an absence. When assigning final grades, attendance (including late arrivals) will be taken into account.

The only valid excuses for missing class are

- An illness which includes confirmation from the Health Center or a doctor
- An approved college activity
- A true emergency
- Any absence excused by the Dean of Students

At the end of the semester, I will take into account your attendance record.

Absences	Action
0 - 2	Grade bonus (1 "part" of a grade)
3 - 5	Neutral (no change in grade)
6 - 8	Grade penalty (1 "part" of a grade)
> 8	Withdrawal

A warning letter will be sent out after the 8th absence.

The last day to drop a course without a grade of WF is Oct 26.

Classroom Etiquette

- During a lecture, you are free to ask questions. It is polite to raise your hand first and wait to be called on.
- You should not talk to other students while I am talking.
- While working assigned problems in class, you are free to talk to other students provided you are talking about the assigned problems.
- *Do not make a habit of leaving the room during the class.* If necessary, use the bathroom before coming to class. If you are thirsty, get a drink before class.
- Do not use a cell phone or any other electronic device except a calculator during class.
- If you use a laptop, use it only for things that are relevant to the lecture. No email, no Facebook, etc.

The Course Content

This course includes the following topics.

- Two weeks of algebra and trigonometry review
- Determining the limiting value of a function (not the same thing as the value of the function)
- Determining the rate of change of a function and its rate of acceleration
- Applications of rates of change and acceleration
- Finding the area under a curve.

The functions that we work with are polynomials, rational functions, power functions, and trigonometric functions (sine and cosine only).