MATH 1020 Calculus 2: Course Activities

Course Learning Objectives: Upon successful completion of the course, students will be able to demonstrate:

- basic symbol manipulation skills pertaining to integration
- the ability to state and explain basic Calculus definitions and theorems
- the ability to describe curves parametrically and apply Calculus concepts and techniques to curves described in this way
- the ability to express curves via polar equations and to solve Calculus problems in the polar coordinate system
- the ability to use convergence tests to analyze the behavior of infinite series
- the ability to represent functions using power series and solve problems using these representations
- the ability to describe lines and planes in space in equation form and solve problems using these representations

Lectures: During the classes on Monday, Wednesday and Thursday, new material will be covered. Emphasis will be placed on development of concepts and on working examples. You are expected to attend lectures, and to experience them free of distractions. Please do not have any electronic devices out that are not being used for class activities. Although the class is large, you are strongly encouraged to ask questions, as there are probably ten people wondering the same thing you are.

Problem-Solving: On Tuesdays or Fridays, you will meet with your recitation instructor for recitation class. In recitation, you may ask any questions you have about the material discussed in lecture and about current assigned homework problems. You are expected to attend recitations, where all exams and quizzes will be returned, and to have worked the current homework problems in advance.

Homework: Every few weeks, a set of homework problems will be given out. While these problems will not be collected, you are expected to attempt all of the current problems prior to your recitation class so you will be prepared for the discussion of those problems, and for recitation quizzes, which will be closely based on the assigned homework.

Quizzes: There will be seven quizzes which will be given during recitation classes. The exact dates and coverage of these quizzes, which will typically last 10-15 minutes, are available on the course webpage. These quizzes will be closely based on assigned homework problems. If you miss a quiz without
a documented excuse you will receive a grade of zero and will not be allowed to make the quiz up.

**Exams:** There will be 3 major exams whose tentative dates are given on the accompanying sheet.