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Office Hours (held in Math Resource Center – Korman 247):  
Mondays 1:00 – 2:00 pm & 4:00 – 5:00 p.m., Tuesdays 4:00 – 5:00 pm, and by appointment

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Goals and Expectations: Math 123 is a one-quarter course designed to further your study of calculus. In particular we will cover some basic differential equations and discuss in detail the topics of sequences and series.

Prerequisites: You must have taken and passed Math 121 and Math 122 or their equivalents. In particular, you should be familiar with taking limits, derivatives, and integrals of functions. Any questions concerning your readiness for Math 123 should be resolved immediately.

Course Format: There will be four hours of class each week. Three days a week we will have a typical lecture-style class that will be devoted to the presentation of basic course theory. Once a week we will have a recitation-oriented class that will provide an opportunity for further discussion of assigned problems and for short quizzes to check on your mastery of course material.

Attendance: Regular attendance is essential for success in this course. You are responsible for all of the material discussed in class. The quarter system moves very quickly – if you don’t do your work regularly, it is easy to fall behind.

Assigned Problems: A list of assigned problems will be available on the course website. They have been chosen to illustrate the concepts and techniques that you are expected to master. You do not have to hand these problems in; however, they are for your benefit and you are expected to work them all out in detail.

Quizzes: Once a week there will be a 10-15 minute quiz based on assigned problems that were due up to that day. You can score up to 10 points on each quiz. The lowest quiz grade will be dropped. There are no make-up quizzes.

Midterm Exams: There will be 3 exams during the term. These will be common exams given during the 8:00 – 8:50 a.m. class period. The exams will be held on the 4th, 6th, and 8th Wednesdays of the term (October 14, 28, and November 11) in Randell 121. Your University ID is required for all exams. There are no make-up exams.
**Final Exam:** There will be a comprehensive two-hour final exam scheduled during the final exams week at the end of the term.

**Calculators:** Calculators are not allowed for any of the quizzes or exams.

**Course Grades:** At the end of the term you will have six grades that will be used to compute your course average. Note that the final exam will count twice.

- Quiz Average 20%
- Exam 1 20%
- Exam 2 20%
- Exam 3 20%
- Final Exam 20%
- Final Exam 20%

**Your quiz average will not be dropped.** Of the other five grades, the lowest will be dropped, i.e. I will drop the lowest of your exams or, if your final exam is your lowest grade, it will only count once.

Your letter grade will be based on your course average:

- A+ 97 – 100
- A  93 – 96
- A-  90 – 92
- B+ 87 – 89
- B  83 – 86
- B- 80 – 82
- C+ 77 – 79
- C  73 – 76
- C- 70 – 72
- D+ 65 – 69
- D  60 – 64
- F  0 – 59

**Math Resource Center – Korman 247:** Go there! The MRC is staffed by faculty and teaching assistants who can help you with your math courses. The MRC is open Mondays through Thursdays 10:00 a.m. – 7:00 p.m. and Fridays 10:00 a.m. – 4:00 p.m. Students who attend the MRC on a regular basis usually raise their grades by at least one letter grade.

**Academic Honesty:** Cheating and other forms of academic misconduct are serious offenses and are dealt with harshly, e.g. at the very least a 0 on an exam that cannot be dropped. Students are expected to be familiar with the policies of academic conduct outlined in the student handbook.

**Tentative Schedule:**

**Week 1:** Integration Review, First-Order Differential Equations (9.1)
**Week 2:** Modeling (9.3), Second-Order Differential Equations (9.4)
**Week 3:** Sequences (10.1), Monotone Sequences (10.2)
**Week 4:** Columbus Day Holiday, Infinite Series (10.3), **Exam 1**
**Week 5:** Convergence Tests (10.4), The Comparison, Ratio, and Root Tests (10.5)
**Week 6:** Alternating Series, Conditional Convergence (10.6), **Exam 2**
**Week 7:** Maclaurin and Taylor Polynomials (10.7), Power Series (10.8)
**Week 8:** Convergence of Taylor Series (10.9), **Exam 3**
**Week 9:** Differentiating and Integrating Power Series (10.10)
**Week 10:** Catch-up, Thanksgiving Holiday
**Week 11:** Review for Final Exam