Contact Information
Instructor: James Alexander
Website: http://math.udel.edu/~alex
Email jamesja@udel.edu
Office: Ewing 328
Office Hours: TF, 10:20 AM – 11:50 AM

Meetings
Lectures: MTWRF, 8:00 AM – 10:15 AM, Ewing 209
Labs: TF, 12:00 PM – 1:30 PM, Ewing 207
Exam 1: 1/13/16 (W), 5:00 PM – 7:00 PM, Ewing 209
Exam 2: 1/22/16 (F), 5:00 PM – 7:00 PM, Ewing 209
Final Exam: 2/6/16 (S), Time TBA

Topics Covered
Chapter 4: Applications of Differentiation
4.4 Intermediate Forms and L'Hospital's Rule
4.8 Newton’s Method
Chapter 6: Applications of Integration
6.1: Areas between Curves
6.2: Volumes
6.3: Volumes by Cylindrical Shells
6.5: Average Value of a Function
Chapter 7: Techniques of Integration
7.1: Integration by Parts
7.2: Trigonometric Integrals
7.3: Trigonometric Substitution
7.4: Integration of Rational Functions by Partial Fractions
7.7: Approximate Integration
7.8: Improper Integrals
8.1: Arc Length
Chapter 11: Infinite Sequences and Series
11.1: Sequences
11.2: Series
11.3: The Integral Test and Estimates of Sums
11.4: The Comparison Tests
11.5: Alternating Series
11.6: Absolute Convergence and the Ratio Test
11.8: Power Series
11.9: Representation of Functions as Power Series
10.10: Taylor and Maclaurin Series
10.11: Application of Taylor Polynomials
Chapter 10: Parametric Equations and Polar Coordinates
10.1: Curves Defined by Parametric Equations
10.2: Calculus with Parametric Curves
10.3: Polar Coordinates
10.4: Areas in Polar Coordinates
10.5: Conic Sections

Prerequisites
MATH 241 or an equivalent is a prerequisite for this course.
Textbook
*Calculus: Early Transcendentals, 7th ed.* by James Stewart

**Homework**
Daily homework assignments will be given through Web Assign, and each will be due two days after it is assigned.

**Quizzes**
A short quiz will be given every Wednesday and Friday during the last 30 minutes of class, except when there is an exam.

**Mathematica Labs**
One or two lab assignments will be given during each lab session. They are due by the start of the following lab session.

**Exams**
The use of calculators is not permitted on exams. Exam dates are given above.

**Grade Distribution**
- **Homework:** 10%
- **Mathematica Labs:** 10%
- **Quizzes:** 10%
- **Exam 1:** 20%
- **Exam 2:** 20%
- **Final Exam:** 30%

**Grading Scale and Drop Deadline**
- A ≥ 92%, A− ≥ 88%, B+ ≥ 84%, B ≥ 80%, B− ≥ 77%, C+ ≥ 74%, C ≥ 71%, C− ≥ 68%, D+ ≥ 65%, D ≥ 62%, D− ≥ 59%, F < 59%. There will be no decimal rounding.
- Last day to drop without penalty: 1/7/16

**Absences**
As with every class that I teach, attendance will not be taken. That being said, statistically, those who attend my classes score much higher on my quizzes and exams, and thus wind up with higher grades. I make a strong effort to present the material of the course in a clear and organized way, and to thoroughly answer every question brought up by students during lecture. I really think that it is in your best interest to attend every class (especially considering that there are only about twenty-five of them). However, I will not hold it against you if you do not come, or give you extra points if you do; your final grade will be as computed as explained in the **Grade Distribution** section independent of such things. The most important thing is that you learn the material.

Absences from exams or quizzes due to excused absences, according to University rules, must be given to me in writing during the first week of class or before (for example, by email) whenever possible. So, if you know that you are going to have to miss a quiz or exam due to a religious holiday, an extracurricular activity (sports game, Greek life event, etc.), job interview, or the like, you need to make sure that the excuse is University approved, and get me the proper documentation by the end of the first week of class. This is important: this is university policy, not my policy, and it needs to be recorded on time for me to excuse you. Some absences, of course, cannot be predicted far in advance. If you must miss a quiz or exam due to an excused absence that cannot be foreseen (for example, a medical emergency, death in the family, etc.), you need to have all the correct University-approved documentation. Also, with a course that moves so quickly, I highly suggest you avoid missing quizzes or exams within reason, even if you have a good reason, because it is easy to fall behind on new material if you are studying for older quizzes and exams.

**Students with Disabilities**
Students who wish to use an accommodation must receive approval from the DSS office (see [www.udel.edu/DSS](http://www.udel.edu/DSS)) and must contact me during the first week of class so that arrangements can be made. Attempting to use accommodations which you are not entitled to is a violation of the academic honesty policy.

**Honesty and Integrity**
Academic Dishonesty will not be tolerated. “All students must be honest and forthright in their academic studies. To falsify the results of one’s research, to steal the words or ideas of another, to cheat on an assignment, or to allow or assist another to commit these acts corrupts the educational process. Students are expected to do their own work and neither give nor receive unauthorized assistance. Any violation of this standard must be reported to the Office of Student Conduct.” Please see [http://www.udel.edu/stuguide/15-16/code.html](http://www.udel.edu/stuguide/15-16/code.html) for the entire Code of Conduct.