

Towson University
Department of Mathematics
Math 274.004: Calculus II
Spring 2017

Mondays and Wednesdays, 10 – 11:50am in YR 129; Fridays, 11 – 11:50am in YR 103

Vince Guingona

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Office Hours: Mondays and Wednesdays, 2 – 3:30pm

Web Assign: <http://www.webassign.net/>; Key: towson 5829 4605

Blackboard: <https://blackboard.towson.edu/>

Course Description: Differentiation and integration of exponential, logarithmic, and inverse trigonometric functions; techniques of integration and applications; indeterminate forms; improper integrals; sequences and series of numbers; power series.

Prerequisites: Math 273

This University Core course is designed to meet the following four learning goals.

Mathematics Core Learning Outcomes
1. Construct and evaluate logical arguments.
2. Apply and adapt a variety of appropriate strategies to solve mathematical problems.
3. Recognize and apply mathematics in contexts outside of mathematics.
4. Organize and consolidate mathematical thinking through written and oral communication.

Required Text: *Calculus (Early Transcendentals)*, Eight Edition, James Stewart

Course Objectives: In this course, we will learn several integration techniques and will cover various applications of integration. We will study convergences of sequences and series and learn tools to analyze their convergence. We will also cover parameterized equations, polar coordinates, and differential equations.

Evaluation: Your grade in the course will depend on three midterm exams, each worth 15% of your grade, one final exam, worth 30%, web-based homework assignments, worth 10%, and Mathematica labs, worth 15%. This information is summarized below.

Graded Components		Final Grade Cut-Offs			
Exam 1	15%	A	93% - 100%	C+	77% - 79%
Exam 2	15%	A-	90% - 92%	C	70% - 76%
Exam 3	15%	B+	87% - 89%	D+	67% - 69%
Final Exam	30%	B	83% - 86%	D	60% - 66%
Homework	10%	B-	80% - 82%		
Mathematica Labs	15%				
Total	100%				

Exam Dates:

- **Exam 1:** Friday, March 3
- **Exam 2:** Friday, April 7
- **Exam 3:** Friday, May 5
- **Final Exam:** Wednesday, May 17, 8am – 10am

Homework: Homework will be conducted through WebAssign. The class key for WebAssign is: *towson 5829 4605*. We will have two assignments per week, each of which consists of approximately 8 questions. These assignments will be due on Mondays and Wednesdays at 11pm. You may work in groups on your homework, but each student must submit their own assignment through WebAssign.

Mathematica Labs: About one hour per week will usually be devoted to Mathematica labs. These labs will typically be due on Fridays at the start of class. I recommend installing a copy of Mathematica on your personal computers, as you will not be restricted by Stephens Lab hours to complete assignments (note that the copy of Mathematica at Towson is free).

Remarks and/or Policies: Class attendance is expected. If you miss class, it is your responsibility to get the material and homework assignments from other students. No late homework or labs will be accepted. Normally, no make-up tests will be administered. If you cannot make a test, please let me know as soon as possible.

Calculators will not be allowed on exams (questions will be answered “by hand”, showing all of your work). Most of the complicated calculations in this class will be done on the computer.

The use of electronic devices during lecture (e.g., laptops for taking notes) is permitted so long as it is not disruptive to your fellow students.

Academic Integrity: All students are expected to adhere to the Towson University Student Academic Integrity Policy. Cheating in any form is unacceptable and failure to abide by the Student Academic Integrity Policy may result in the grade of F in the course.

Student with Disability Policy: This course is in compliance with Towson University policies for students with disabilities. Students with disabilities are encouraged to register with Disability Support Services (DSS), 7720 York Road, Suite 232, 410-704-2638 (Voice) or 410-704-4423 (TDD). Students who expect that they have a disability but do not have documentation are encouraged to contact DSS at www.towson.edu/dss/ for advice on how to obtain appropriate evaluation. A memo from DSS authorizing your accommodation is needed before any accommodation can be made.

Diversity Statement: In accordance with the Towson University Strategic Plan, the FCSM Diversity Action Plan, and the Department of Mathematics Diversity Action Plan, everyone participating in this course is expected to be respectful of each other without regard to race, class, linguistic background, religion, political beliefs, sex, gender identity or expression, sexual orientation, ethnicity, age, veteran’s status, or physical ability. If you feel these expectations have not been met, please feel free to discuss it with me or with the designated diversity liaison Dr. Elizabeth Goode.

If you have any further questions about the course, please email me or discuss them with me during office hours.

Other Important Dates:

- **Drop without W deadline:** Tuesday, February 7
- **Drop deadline:** Monday, April 10
- **Last day of class:** Monday, May 15
- **Final exam:** Wednesday, May 17, 8am – 10am

Good luck!!