

# Calculus II

## Math 1552

### Information

1. Time: TWTF 9:30 AM – 10:20 AM 0115 RES COLL ONE N
2. Textbook: Calculus, Early Transcendentals, 8<sup>th</sup> Edition by James Stewart  
Chapter 7: 7.1–7.5, 7.7 7.8  
Chapter 11: all  
Chapter 10: 10.1–10.5  
Chapter 12: all  
Chapter 13: all  
Chapter 14: 14.3
3. Instructor: Fang-Ting Tu  
Office: 246 Lockett Hall  
Email: [tu@math.lsu.edu](mailto:tu@math.lsu.edu), [ftu@lsu.edu](mailto:ftu@lsu.edu)  
Office Hours: TTF 12:00–12:50 PM. (RES COLL ONE N 111)  
Email me first to make sure that I can meet with you at other times.
4. Free on-campus Tutoring:  
<http://students.lsu.edu/academicsuccess/studying/peer/tutoring>
5. Supplemental Instruction:  
Mondays and Tuesdays 4-7.30 p.m, Thursdays 4-7 p.m

The University is committed to making reasonable efforts to assist individuals with disabilities in their efforts to avail themselves of services and programs offered by the University. To this end, Louisiana State University will provide reasonable accommodations for persons with documented qualifying disabilities. If you have a disability and feel you need accommodations in this course, you must present a letter to me from Disability Services in 115 Johnston Hall, indicating the existence of a disability and the suggested accommodations.

# Grading policy

1. Homework: 12 points

We will be using WebAssign to do online homework. A WebAssign access code is included with your textbook, or you can purchase access directly from the WebAssign website without buying a book at all. The key for our class is **Isu 1009 7390**

2. Pop-Quizzes: 14 points (7\*2 points)

These will be opened-book 5-10 min quizzes. Your highest 7 quizzes will be kept. **No make-up quizzes.**

3. Exams: 60 points (3\*20 points)

These will be closed-book 50 min tests. **NO books or notes are permitted.** Your highest 3 tests will be kept.

4. Final Exam: 25 points (May 2<sup>nd</sup> 10 am-12 pm.)

This will be a closed-book 2 hour test. **NO books or notes are permitted.**

Total: 111 points **No make-up exams will be given unless a compelling documented excuse is presented. If you have any questions about your scores, contact me before I post the final grade.**

**Important: Absolutely no score adjustment**

<b>A+</b>	97+
<b>A</b>	93-97
<b>A-</b>	90-93
<b>B+</b>	87-89.999999
<b>B</b>	83-87
<b>B-</b>	80-83
<b>C+</b>	77-79.999999
<b>C</b>	73-77
<b>C-</b>	70-73
<b>D+</b>	67-69.9999
<b>D</b>	63-67
<b>D-</b>	60-63
<b>F</b>	0-59.99999

# Course Description

This course is a four (4) hour second calculus course designed for math, science and engineering majors and certain other technical majors. It satisfies four hours of the General Education Analytical Reasoning requirement because it includes the following area learning objective: “LSU graduates will employ scientific and mathematical models in the resolution of laboratory and real-world problems.” As a 4-credit course, students are expected to have eight hours of coursework outside of class per week, for a minimum time commitment of 12 hours per week.

## Calculators and Collaboration

You can use any technology available to help with homework and online quizzes, and you may collaborate with others while doing them. However, on in-class quizzes and exams you may only use a scientific calculator that does not do graphs or symbolic manipulation, such as solving equations and symbolically calculating derivatives and integrals. Also, work on in-class exams must be your own work with no assistance from anyone else. During an exam, attempts to look at other students’ exams and the use of crib sheets or formula sheets will be considered to be a violation of the LSU Code of Student Conduct and will be reported to the Dean of Student’s Office.

## Topics Covered

1. Techniques of integration, numerical integration, improper integration
2. Parametric curves and polar coordinates; areas and lengths determined by parametric and polar curves
3. Infinite sequences and series, convergence tests, power series and Taylor series
4. Vectors in two and three dimensions; lines and planes in space
5. Analytic geometry of conic sections and quadric surfaces
6. Calculus of vector-valued functions; arclength, curvature and motion in space
7. Calculation of partial derivatives

For more details, please visit the website

<https://www.math.lsu.edu/courses/1552>