

# Math 1430, Section 03: Calculus II

## Fall 2018 Syllabus

### 1 Course Information

- Location and Time: MWF 12:30–1:50pm, 402 Lee Drain Building
- Professor: Dr. Martin Malandro
- Department: Mathematics and Statistics
- Office: 433 Lee Drain Building
- E-mail (preferred method of contact): malandro@shsu.edu
- Phone number: (936) 294-1580
- Office Hours: Thursday 1:15pm–4:15pm and by appointment.
- Required Materials:
  - Textbook: Calculus: Early Transcendental Functions by Larson and Edwards, 6th ed. Published by Cengage. A used copy is fine.
  - Calculator: TI-83 or better recommended. Calculators with computer algebra systems (such as the TI-89) will NOT be allowed on exams. If you have questions about the legality of your calculator, please see me.

**Catalog Course Description:** Topics include the definite integral and its applications, techniques of integration, improper integrals, Taylor’s formula and infinite series. Prerequisite: C or better in Calculus I (MATH 1420). Credit 4.

**Course Objectives/Learning Outcomes:** A successful student will attain mastery of the following topics. Other topics will also be covered.

- Techniques of integration, including  $u$ -substitution, integration by parts, partial fractions, and trigonometric substitution
- Improper integrals: Identification and evaluation
- Applications of integration, including areas between curves, volumes of revolution, surface areas of revolution, and arc length.
- Infinite sequences and series, definitions and basic properties
- Geometric series: Theory and applications
- Convergence tests for infinite series, including the integral test, ratio test, and root test
- Taylor series: Theory and applications

### 2 Grading Policy

Your grade in the course will be calculated using the following weights:

Homework	20%
Integration quiz	10%
Exams 1, 2, 3	Worst one: 10%, other two: 20% each
Final Exam (cumulative)	20%

Grading Scale:

A	90% or better final average
B	80–89% final average
C	70–79% final average
D	60–69% final average
F	59% or lower final average

**Homework:** I will assign homework on a near-daily basis, and we will hold “homework sessions” in class on a regular basis. Here is how they will go. I will choose problems from the homework and call on students randomly to put solutions to those problems on the board. A proper solution is an unbroken chain of logic leading to the answer, not just the answer itself. Show your work! Your homework score will be determined by your participation when I call on you for these presentations. I will grade all presentations on a 4-point scale.

Bring your completed homework with you to class every day. You will probably find it helpful to bring your book as well. Unless I announce otherwise, when I assign homework I will expect you to have it completed and ready to present the following class session.

**Missed homework policy:** No make-ups for missed homework presentations will be available. If you are sick and unable to attend on a day homework is due you may email me a copy of your homework for grading. EMAIL ONLY. I will not accept physical homework copies. Do not abuse this policy.

Furthermore, in calculating your homework average, I will drop your (1) lowest homework score.

**Exams:** Many exam problems will be similar to homework problems or examples worked in class. The final exam will be cumulative.

If you arrive late to an exam, you may still take the exam in the remaining time as long as nobody has finished the exam yet.

No exam or quiz grades will be dropped, and there will be no do-overs. However, note that your worst exam score (of exams 1, 2, and 3) is weighted at only 10% for your final average, while your other two exam scores are weighted at 20% each.

**Exam make-up policy:** If you miss an exam, you will be expected to show appropriate cause in writing. If you must miss an exam, I expect you to contact me beforehand. If that is impossible, then you must contact me no later than 24 hours after the exam. If you miss an exam and have not contacted me by this time, you forfeit your right to a make-up.

**Academic Honesty Policy:** You may work together on homework assignments and you may consult whatever sources you deem necessary while doing so. The purpose of the homework is to LEARN—specifically, to better your understanding of the underlying concepts and to gain proficiency in using them to solve problems.

Exams, on the other hand, exist for you to DEMONSTRATE what you have learned. They are individual endeavors, where no help is to be given or received. Cheating on an exam includes, but is not limited to, sharing answers or using any form of cheat sheet (note: notes programmed into a calculator count as a cheat sheet). If I catch you cheating on an exam, I will forbid you from attending any further class meetings and assign you a grade of F in the course. You may also be referred to the dean on academic dishonesty charges.

**Extra Credit Policy:** Extra credit will be available in the form of one bonus question per exam. No other extra credit will be available.

**Grade Dispute Policy:** All grade issues need to be brought to my attention within one week of having your grade returned/posted.

**Final Exam Schedule:** Mon Dec 3, 1–3pm

### 3 Classroom Policies

**Attendance Policy:** I expect you to attend every class. If you miss a class, then I expect you to get notes from a classmate. I expect you to arrive to class on time.

**Classroom Rules of Conduct:** Students must refrain from behavior in class that disrupts the learning process. Students are prohibited from using tobacco products in class, making offensive remarks, reading newspapers, sleeping, talking at inappropriate times or about inappropriate things, wearing inappropriate clothing, using cellphones, or engaging in any other form of distraction. Inappropriate behavior in the classroom shall result in a directive to leave class. Students who are especially disruptive also may be reported to the Dean of Students for disciplinary action in accordance with university policy.

Math-related questions in the classroom are encouraged. However, chatter is disruptive to the learning process and will not be tolerated under any circumstances.

**Disabilities policy:** Any student with a disability that affects his/her academic performance should contact the Office of Services for Students with Disabilities in the SHSU Lee Drain Annex (telephone 936-294-3512, TDD 936-294-3786) to request accommodations.

**Use of Telephones and Text Messengers in Class:** Be respectful of those around you and don't use these during class, except in the case of emergency. All messengers must be put away for exams.

### 4 Tentative Schedule

Integration: Area, $u$ -subs, integration by parts	Aug 22–Aug 29
Integration quiz	Friday Aug 31
Integration: Volume, surface area	Aug 31–Sep 13
Exam 1	Friday Sep 14
Arc length, improper integrals, more integration techniques	Sep 15–Oct 11
Exam 2	Friday Oct 12
Sequences and series	Oct 13–Nov 8
Exam 3	Friday Nov 9
Taylor series, further topics	Nov 10–Nov 30
Final Exam	Mon Dec 3, 1–3pm

The date/time of the final exam is set by official SHSU policy. All other dates in this list are tentative and subject to change.

### 5 Additional Information

All information on this syllabus is subject to change. All changes will be announced in class. Further university policies regarding academic dishonesty, student absences on religious holy days, disabilities, and visitors in the classroom which apply to this course may be found at <http://www.shsu.edu/syllabus/>. If there is a conflict between information on this syllabus and official university policy, university policy takes precedence.