

Math 1B: Calculus II

Fall 2017

Instructor: Jody Ryker

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Office Hours: TTh 12:30-1:30

Text: Calculus:Early Transcendentals with Hyperbolic Functions, 8th Ed.–Stewart/Larson

Prerequisites: Math 1A

Student Learning Outcomes

- Analyze the definite integral from a graphical, numerical, analytical, and verbal approach, using correct notation and mathematical precision.
- Formulate and use the Fundamental Theorem of Calculus.
- Apply the definite integral in solving problems in analytical geometry and the sciences.

Topics: Fundamental Theorem of Calculus; antiderivatives; definite integrals; applications of integration including area under the curve, volume of surfaces of revolution, volume of a solid, arc length, surface area of surfaces of revolution; sequences, series including Taylor/Maclaurin series, power series

Grading

Midterm 1	15%
Midterm 2	15%
Final: Cumulative	20%
Project	20%
Quizzes	10%
Homework	10%
Activities/Attendance	10%
A+	97.1%-100%
A	93%-96.9%

A-	90%-92.9%
B+	87.1%-89.9%
B	83%-86.9%
B-	80%-82.9%
C+	77.1-79.9%
C	70%-77%
D	60-69.9%
F	0-59.9%

Groups

During the first class meeting, you will pick a group of 4-5 students to be a part of. You will complete activities with this group. You will also turn in homework with this group (though you still must show that you completed the homework on your own as well).

Make-Up Tests

There will be no make up tests. If an emergency arises and you must miss a test, then you will be asked to provide documentation regarding your emergency and a replacement test score will be calculated by averaging your scores on the other exams.

Homework

Homework will be assigned every week. It will be collected in class the following Wednesday after it is assigned. If the collection day is a holiday, then it will be collected at the next class meeting after that day.

When homework is being collected, you will meet with your group. Together, your group will write down the solutions to the five selected problems. These solutions will be turned in to me. As your group is discussing and writing down these solutions, I will go around to each group and ask to see each individual's assignment to make sure that each of you first completed the assignment on your own.

Each assignment is worth 20 points. 10 points will be awarded for completeness, and 10 points for the correctness of five arbitrarily chosen problems. If you simply put an answer without justification or work, that question will be graded as if it were not answered.

Late homework will not be accepted.

You are expected to turn in every assignment. The homework will prepare you for exams, and some exam questions will be the same or nearly the same as homework questions.

Quizzes

Quizzes will be administered every week or every other week. The problems on the quizzes will be nearly the same as exam questions. Studying your quizzes will be the best way to prepare for exams.

Solutions to the quizzes and a grading rubric will be provided in class. Your quiz will be graded (either by you or by a peer) so that you know how well you did. However, I will not record this score. You receive full credit for quizzes just by taking them. You will receive no credit if you do not take a quiz.

There are no make-up quizzes.

Expectations/Participation

You are expected to attend all class meetings. Participation in this course is very important to achieving understanding of the material. Every class meeting will include an activity, and participating in the activity will affect your grade.

Please do not use a cellphone while in the classroom. If you must take a phone call, please step outside. If you are using your phone or another device, not only are you not participating in class, but you are distracting others around you. If I notice you using a phone or other device instead of working on the class activity, you will be marked as absent.

It is your responsibility to turn in requested activities, sign attendance sheets, and to make sure that I have noted your participation in class. If your name is not on the attendance sheet for a given day, or you did not turn in an activity that was collected (on the day it was collected), you will be marked as not having participated this day. It is entirely your responsibility to make sure your participation record is correct. If at the end of the term you tell me that you were in class on a given day but forgot to sign-in, for example, you will still be marked as not having participated on that day.

Please come to class prepared. Plan on bringing your book, paper, and a pencil to each meeting. You should also read the section to be discussed before each meeting.

Please be respectful to all others in the classroom. If you are inhibiting someone's ability to learn, you will be asked to leave.

Academic Integrity

All written homework assignments, projects, and tests must be completed by you. If you cannot solve a problem, please ask me for help. If you copy a solution from somewhere else, you will receive no credit for that assignment. If you plagiarise or have someone else complete your project summary, you will receive an F in this course and you will be reported to the division dean and dean of students.

Attendance

If you miss one or more class meetings during the first week, you may be dropped from this course.

Calculators

Calculators are not allowed in class or during tests. If you use a calculator during an exam, you will receive 0 points on that exam and you will be reported to the dean of students for cheating.

Contact

The best way to reach me outside of the classroom is through email. I will answer all emails within two business days.

If you are studying for an exam and have questions, please email me several days in advance. If you email me the day of or the day before, I cannot guarantee that I will have time to respond.

Resources

MSTRC: Math tutoring, S43

Private Tutoring: Recommendations available upon request

If you need special accommodations due to a disability, please let me know. You may contact Disability Support Services (864-8753) or Educational Diagnostic Center (864-8839) to request support or accommodations for your disability.