Course Syllabus

Edit

Class Location and Time

MATH 2413.002

MWF 9:05am-10:20am

RBN 4025

Textbook

Essential Calculus: Early Transcendentals, 2nd Edition, by Stewart,

ISBN-13: 978-1-133-11228-0

Chapters 1 – 5

Course Description

A study of functions, limits, continuity, differentiation of algebraic and trigonometric functions, applications of the derivative, definite and indefinite integrals with applications.

Prerequisites: Satisfactory math score on SAT, ACT or THEA and "C" or better in MATH 1316, or passing score on departmental trigonometry test, or "C" or better in MATH 2312.

Student Learning Objectives

Upon completion of this course the students should be able to:

- **Discuss the solution to the tangent and area problems involving the calculus concepts of limits, derivatives and integrals.**

- **Use graphs of algebraic and transcendental functions to determine limits, continuity, and differentiability at a point.**

- **Determine whether a function is continuous and/or differentiable at a point using limits.**

- **Apply differentiation rules to differentiate algebraic and transcendental functions.**

- **Choose appropriate calculus concepts and techniques to provide mathematical models of real-world situations and determine solutions to applied problems.**

- **Compute definite integrals using the Fundamental Theorem of Calculus.**

- **Recognize and discuss the relationship between derivatives and integrals using the Fundamental Theorem of Calculus.**

Calculator Policy

No calculators will be allowed during this class.

Homework

The astute student will notice that the homework is weighted the same as an exam. In math, the only successful way to study is to practice. As such, I believe homework to be vital enough that I've given it the same weight as each of the exams. Do your homework.

Homework will be due at the beginning of class. Please note that there will be homework due every class day except exam days. Late homework will not be accepted. I will be dropping your lowest homework grade at the end of the semester.

Quizzes

Weekly (hopefully) quizzes will comprise problems similar to homework. This means that if you keep up with your homework, you should do very well on your quizzes. There will be NO makeup quizzes. If you miss a quiz for any unexcused reason (including illness), you will not be allowed to make that up. I will be dropping your lowest quiz grade at the end of the semester.

Grading Scheme

The grading scheme for this course will be no more harsh than

90-100 A

80- less than 90 B

70- less than 80 C

60- less than 70 D

less than 60 F

There will be no extra credit given for any reason. Do not plead for extra credit at the end of the semester.

Exams

There will be 3 midterm exams and a final exam in this class. The dates for the exams are on Canvas. All exams will be in class.

Exam Dates

Exam 1 - Fri, Feb. 3

Exam 2 - Fri, Mar. 10

Exam 3 - Fri, Apr. 21

Final Exam - Mon, Apr. 24, 8:00am-10:00am

Cell Phones and Technology

Cell phone usage is not allowed during class and phones must remain on silent. You may use an iPad or tablet to take notes, however if it becomes a distraction, I reserve the right to ask you to put it away. If you need to take a call during class, please leave the room before answering in order to be respectful to your fellow classmates. During exams, phones must be stowed away in a backpack or purse. If I see a phone during an exam, you will be given a zero immediately and will be unable to continue the exam.

Classroom Behavior

No offensive language in the classroom (this includes inappropriate jokes or comments). Be respectful to one another. Unruly behavior - such as conversations during lecture - are grounds for being dismissed from class. Basically, don't be a distraction to the people around you.

Course Summary:

Date	Details	Due
Fri Jan 13, 2023	**Assignment [Section 1.1](#)**	**due by 9:05am**
Wed Jan 18, 2023	**Assignment [Quiz 1](#)**	**due by 9:05am**
	Assignment [Section 1.2](#)	**due by 9:05am**

Date	Details	Due
Fri Jan 20, 2023	Assignment [Section 1.3](#)	due by 9:05pm
Mon Jan 23, 2023	Assignment [Section 1.4](#)	due by 9:05am
Wed Jan 25, 2023	Assignment [Quiz 2](#)	due by 9:05am
Fri Jan 27, 2023	Assignment [Section 1.5](#)	due by 9:05am
Wed Feb 1, 2023	Assignment [Quiz 3](#)	due by 9:05am
Mon Feb 6, 2023	Assignment [Section 1.6](#)	due by 9:05am
Wed Feb 8, 2023	Assignment [Section 2.1](#)	due by 9:05am
Fri Feb 10, 2023	Assignment [Exam 1](#)	due by 9:05am
Wed Feb 15, 2023	Assignment [Section 2.2](#)	due by 9:05am
Wed Feb 22, 2023	Assignment [Section 2.3](#)	due by 9:05am
	Assignment [Section 2.4](#)	due by 9:05am

Date	Details	Due
Fri Feb 24, 2023	Assignment **Section 2.5**	due by 9:05am
Mon Feb 27, 2023	Assignment **Section 2.6**	due by 9:05am
Wed Mar 1, 2023	Assignment **Quiz 5**	due by 9:05am
	Assignment **Section 2.7**	due by 9:05am
Fri Mar 3, 2023	Assignment **Section 3.1**	due by 9:05am
	Assignment **Section 3.2**	due by 9:05am
Mon Mar 6, 2023	Assignment **Section 3.3**	due by 9:05am
Wed Mar 8, 2023	Assignment **Section 3.4**	due by 9:05am
Fri Mar 10, 2023	Assignment **Exam 2**	due by 9:05am
Wed Mar 22, 2023	Assignment **Section 3.5**	due by 9:05am
Fri Mar 24, 2023	Assignment **Section 3.7**	due by 9:05am

Date	Details	Due
Mon Mar 27, 2023	Assignment **[Section 4.1](#)**	**due by 9:05am**
	Assignment **[Section 4.2](#)**	**due by 9:05am**
Wed Mar 29, 2023	Assignment **[Quiz 6](#)**	**due by 9:05am**
	Assignment **[Section 4.3](#)**	**due by 9:05am**
Fri Mar 31, 2023	Assignment **[Section 4.5](#)**	**due by 9:05am**
Mon Apr 3, 2023	Assignment **[Section 4.7](#)**	**due by 9:05am**
Fri Apr 7, 2023	Assignment **[Section 5.1](#)**	**due by 9:05am**
Mon Apr 10, 2023	Assignment **[Section 5.2](#)**	**due by 9:05am**
Fri Apr 14, 2023	Assignment **[Section 5.3](#)**	**due by 9:05am**
Mon Apr 17, 2023	Assignment **[Section 5.4](#)**	**due by 9:05am**
	Assignment **[Section 5.5](#)**	**due by 11:59pm**

Date	Details	Due
Fri Apr 21, 2023	**Assignment [Exam 3](#)**	**due by 9:05am**
Mon Apr 24, 2023	**Assignment [Final Exam](#)**	**due by 8am**
	Assignment [Quiz 4](#)	
	Assignment [Quiz 7](#)	