MATH 156 Section 14 (Online)
Fall 2020 Syllabus

Instructor: Tony Se
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Office hours: Monday to Thursday 2:15-3:10pm at Zoom, or by appointment

Course Description: Calculus II is a continuation of the first semester calculus course. The course begins with a more in-depth look at integration and applications of integration. It then examines basic and more advanced techniques of integration. Convergence tests for sequences and series are studied in order to look at power series. The course concludes with a study of the algebra, geometry, and calculus of parametric and polar curves.

Lecture and Content Delivery: Lectures are delivered via pre-recorded videos. Students may watch the videos at any time, but are responsible for setting a video viewing schedule that keeps up with the pace of the course. The instructor will provide a suggested schedule for the students to follow.

Online Work and Technology Requirement: We will use the following online resources in this class:
- Ecampus with Lockdown Browser and Respondus Monitor
- Collaborate Ultra
- Zoom
- Webassign
- Crowdmark
- YouTube
- Mix Email

The following resources may be used later in the semester:
- Google Drive
- Google Hangouts

It is the responsibility of the student to make sure that they have the necessary technology for these online resources. A webcam and a computer <u>with reliable, continuous internet access</u> are required for this course. Students must <u>regularly check email and all announcements made on eCampus, including any updates to this syllabus.</u>

All of these resources are free to WVU students except Webassign. Webassign is part of the textbook purchase requirement for this class.

Textbook: *Calculus: Early Transcendentals* 8th edition by James Stewart. Available electronically with WebAssign. You <u>must purchase access to Webassign</u>. You may choose whether to use an electronic version of the textbook or a hard copy.

Time Zone: All deadlines and times given in this class are according to Eastern Time. This is Eastern Daylight Time (UTC-4:00) until November 1. After November 1, this is Eastern Standard Time (UTC-5:00). Websites may or may not automatically change the times to reflect the time zone you are currently in. Please be cognizant of this if you are outside of the Eastern Time Zone.

Online Proctoring: Exams and some quizzes will require use of Lockdown Browser and Respondus Monitor. The ability to take exams in a separate room with no interruptions is required for these tests and quizzes. More details will be provided during the semester.

Zoom: Office hours, review sessions and any live meetings will be held on Zoom. The meeting ID for these will be posted in eCampus.

Google Hangouts: Google Hangouts may be used later in the semester. This is free with your Mix Gmail account. Google Hangouts apps are available on most smartphones and tablets. There are browser apps available by going to http://www.google.com and logging into your Mix Gmail account.

Evaluation: The course grade is based on multiple forms of assessment, distributed as follows:

Homework and Quizzes	30%
Exams	45%
Final Exam	25%

A letter grade of A-F will be assigned based on the percentage of the possible points earned. The scale will be: A 90-100%, B 80-89.9%, C 70-79.9%, D 60-69.9%, F below 60%.

Homework and Quizzes: Homework and quizzes will be assigned frequently. Homework will be submitted on Crowdmark. Students will choose one of several quiz times available each week to take their quizzes. Quizzes will be given via Collaborate Ultra or Zoom. Further homework and quiz arrangements will be posted on eCampus.

Evaluation & Grade Assignment: You must show appropriate work to receive any credit on written assignments. You will be graded on the correctness of your solution and on using appropriate/correct notation. **You must turn in your own work**.

Exams: There will be three exams in this course. Exams are currently scheduled for the following dates:

Exam 1	Thursday, September 17, 7:00-9:00 PM
Exam 2	Thursday, October 8, 7:00-9:00 PM
Exam 3	Thursday, November 12, 7:00-9:00 PM
Final Exam	Monday, December 7, 8:00-10:00 PM

More details about the format and delivery of the exams will be available during the semester. Dates are subject to change. Every effort will be made to give at least one week's notice if a change is necessary.

Math 156 Departmental Committee: If there are any extenuating circumstances that occur during the semester (missed exam, technology issues, etc.), students must write a letter addressed to the Math 156 Committee fully explaining the issue. The letter should include as much information as possible about the circumstances surrounding the situation. Students may provide any documentation they wish to support their explanation of the situation. The timeliness of the letter may be taken into account when the committee makes a decision, so the letter should be submitted as early as possible. The committee will then decide the fairest course of action. Decisions will be made before the end of the semester but are not immediate. Letters and supporting documentation should be emailed to the instructor. Committee decisions will be final.

Important University Policies: A number of other important policies pertinent to this class are available at the following website: https://tlcommons.wvu.edu/syllabus-policies-and-statements. These include:
- Academic Integrity Statement
- Academic Standards Policy, including Academic Dishonesty
- Accessibility Statement
- Adverse Weather Statement
- Appropriate Use of Technology Statement
- Attendance Policy
- Campus Safety Statement
- COVID-19 Syllabus Statement
- Inclusivity Statement
- Incomplete Policy
- Sale of Course Material Statement
- Sexual Misconduct Statement
- Student Evaluation of Instruction Statement

Math 156: Calculus 2
Learning Outcomes

As part of the General Education Foundations (GEF) curriculum, this course incorporates LEAP Learning Outcomes in addition to the specific learning outcomes for this course.

LEAP Essential Learning Outcome 2: Intellectual and Practical Skills: *WVU GEF courses incorporating LEAP Essential Learning Outcome 2 teach at least one intellectual or practical skill relevant for modern life, and explicitly describe to students what it is and where it is applicable.*

In Math 156 course students will:

- Learn how to analyze a problem in order to select an appropriate solution strategy.
- Compare and contrast multiple solution methods to determine accuracy and efficiency.
- Learn how to effectively communicate mathematical ideas and solutions in written form.

Other Math 156 Specific Learning Outcomes

Upon successful completion of this course, students will be able to:

1. Apply techniques of integration to various integral problems.

2. Recognize and calculate the limit of a sequence.

3. Recognize series and apply appropriate convergence tests to solve series problems.

4. Represent functions as power series.

5. Move fluently between Cartesian and Polar coordinate systems and parametric equations.

6. Use integrals to solve application problems involving (but not limited to) area, volume, average value, arc length.