Math 1910 Calculus Section 01 Spring 2022

Course overview

Course Number and Name: Math 1910

Credit Hours: 4

Instructor Name & Title: Dr. Brad Fox

Instructor Title: Associate Professor

Department: Mathematics and Statistics

Email Address: foxb@apsu.edu

Class Time/Location: CX 310, MTWR 8:00am-8:55am, F SLA Lab 8:00am-8:55am

Office: MMCS 109, 931-221-1274, Zoom ID 378-599-9763

Office Hours: MMCS 109; **M:** 10:15– 11:15am, **T:** 2:00-4:00pm, **W:** 1:30 – 3:30pm, **R:** 9:00 – 10:00am; Other times by appointment

Final Exam: Mon 5/2 8:00-10:00am or Thurs 5/5 10:30am-12:30pm

Course Details

Course Description

Elements of plane analytic geometry, functions, limits, derivatives of algebraic and trigonometric functions, integration and applications.

Course Objectives

The objectives of this course are to enhance the student's understanding and appreciation of mathematics, develop critical and analytical thinking skills, and be able to apply mathematical concepts to real-world problems and phenomena.

Prerequisites and Co-requisites

ACTM 27 and high school trigonometry or grade of C in Math 1730

Student Learning Objectives

The student will improve his/her ability to:

- Read and interpret mathematical material.
- Use correct mathematical language and symbols.
- Develop problem solving skills.

- Understanding of the function concept.
- Develop an understanding of the definitions of limits and continuity.
- Understand what a derivative is, understand what a definite integral is in terms of the limit of a Riemann sum and be able to model area with definite integrals.
- Be able to apply the fundamental theorem of calculus.

Course Requirements

Required Textbooks

Calculus - 11th Edition by Larson and Edwards including Web Assign access code

Specific Course Requirements

You will need regular access to D2L in order to check for assignments, announcements, and course material. You will need an access code for the online homework system. You will need a TI-83 or TI-84 calculator. Calculators capable of symbolic notation such as TI-89 and TI-92 are prohibited.

Assessments and Grading

Exams and Quizzes

There will be four exams over each of Chapters 1 through 4, followed by a comprehensive final exam. See the course schedule on D2L for the dates of these tests. Short quizzes will be given either in class with roughly ten expected over the semester; only your highest eight grades counting in your quiz total.

Labs

Every student is required to attend the SLA (Structured Learning Assistance) Labs every Friday that will supplement the content from that week's lectures. The labs are taught by an undergraduate SLA leader. Your SLA leader will give more information on the labs.

Homework

Online homework assignments on Web Assign are required. Assignments will involve one to three sections of problems at a time, with assignments due once or twice per week. You are encouraged to work together on the homework, but are expected to understand the answers that you input.

Grading Policy

The final grade for this course will be as follows.

Grading	**Points**
Exam (4 each 100 points)	400
Final Exam	150
Quizzes (8 each 10 points)	80
Homework	60
SLA Labs	60

The total score for the above activities will be 750 points.
The grading scale is as follows: A (90% and over); B (80% up to 90%); C (70% up to 80%); D (60% up to 70%); F (below 60%).

Course Rules and Policies

Attendance

Attendance is critical within a mathematics course! If you don't come to class (or at least stay engaged in the online material if are sick or quarantined), you will do poorly – mathematics is cumulative and **not** an easy subject for self-study.

Policy about missed classes, exams etc.

In the event of a University excused absence, all work must be completed prior to the absence.
There will be no make up quizzes, although online-proctored quizzes can be done for students who are quarantined. If you miss a quiz due to an excused absence, that quiz will not count against you. Do not assume that you will automatically be allowed to make-up a missed test; whether a make-up test will be possible is up to my discretion and only if I am contacted immediately.

Students with Disabilities

Austin Peay State University abides by Section 504 of the Rehabilitation Act of 1973, which stipulates that no student shall be denied the benefits of an education "solely by reason of a handicap." Disabilities covered by law include, but are not limited to, learning disabilities, hearing, sight, or mobility impairments.

If you have a documented disability that may have some impact on your work in this class and for which you may require reasonable accommodations, communicate with me or Disabilities Services in Clement 140. 931-221-6230 or 931-221-6278 (V/TTY), so that such reasonable accommodations may be arranged.

Technical Support

APSU Help Desk: For Austin Peay email and OneStop login issues please call (931) 221-HELP (4357) or helpdesk@apsu.edu.

Academic Misconduct

You may not use unauthorized resources of any kind on the quizzes or exams. This includes, but is not limited to help from any person other than me, using websites or other online resources, or using a computer or calculator to perform tasks beyond what a TI 83/84 can do. Copying any problem solution from any source is forbidden; doing so will result in failure of the class, disciplinary action, and possible suspension.

Students are expected to conduct themselves appropriately at all times. Academic and classroom misconduct will not be tolerated. Students must read the "Code of Student Conduct" in the new Student Handbook for an understanding of what will be expected of them within the academic setting. Policy 3:005 will be followed in reporting any suspected cases of academic misconduct:

Student Complaints and Appeals Procedures

Discuss your concerns with your faculty member or contact the department chair if you need assistance in resolving an issue. APSU has a variety of policies and procedures for students to file a complaint, appeal, or grievance. Please visit this webpage for more information.

Mid Term Grade

A mid-term grade may be assigned for students in this course. This grade may not necessarily be based on 50% of the course requirements and may or may not differ from the final grade you receive in the class. Your mid-term grade will be posted on AP Web. The mid-term grade is not an official grade of any kind, but rather it serves to give you some indication of how you are performing in the course at that point in time.

COVID-19 Syllabus Supplement

We should all continue to take steps to mitigate the spread of COVID-19. Masks are recommended for all faculty, staff, and students while indoors. To help keep our university community safe, vaccination and boosters are strongly encouraged and readily available, including at APSU's Boyd Health Services. Contact them at (931) 221-7107.

Any student exhibiting symptoms of COVID-19 should seek a test. If any student tests positive for COVID-19, or if an unvaccinated student is exposed to someone who has tested positive, that student is required to fill out the COVID-19 Self-Reporting Form and isolate for five days from the onset of symptoms. If fever-free without medication, and if other symptoms are improving, the student can return to normal activities on Day 6. The student is strongly encouraged to wear a mask through Day 10. To help prevent further spread, students who test positive should notify anyone with whom they were within six feet for more than fifteen minutes. Students missing class should email their instructors when possible. The COVID-19 vaccine, booster, and testing are still free and widely available through Boyd Health Services. Visit the APSU Coronavirus Dashboard webpage for more information.

Syllabus Changes

This syllabus is not a contract, and circumstances may necessitate the stated requirements to be changed.