

The Indiana Academy
Course Syllabus Fall 2021
ADVANCED PLACEMENT CALCULUS AB I

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Office Hours

Monday, Friday: 12 - 1 p.m.; 2 - 3 p.m.
Wednesday, 12 - 1 p.m.; 2 - 3 p.m.; 4 - 6 p.m.
Tuesday: 12 - 1 p.m.
Thursday: 12 - 1 p.m.

I am typically around at a lot of other times. Please let me know if you need to meet me and we can make an appointment. Any changes to these hours will be posted outside my office door.

Prerequisites

Precalculus for Advanced Placement 2 or equivalent.

Dual Credit

Students completing the fall and spring semester of AP Calculus AB may choose to also enroll for credit in MATH 165 (Calculus 1) through Ball State University. Interested students may complete the enrollment process **in the spring** by working with their Academic Advisors.

Content

Topics covered will follow the CEEB syllabus in AB Calculus, including specifically:

- Functions
- Limits of Functions
- Differentiation
- Applications of the Derivative
- Antiderivatives

Texts

Calculus of a Single Variable (11th edition), Larson, Hostetler, Edwards, 2018, Houghton Mifflin Company.
[ISBN 978-1-337-28690-9]

Attendance Policy

- Promptness and attendance is expected of all students. Academy policies on attendance and tardiness will be followed. Sleeping in class may constitute an unexcused absence. Being late more than 10 minutes may be recorded as an unexcused absence.
- Class attendance is crucial to success in this course. If a class session is missed, the student should use the class assignment sheet to identify the material that was missed during an absence. To view the lecture content via the Canvas course website, scroll down to the appropriate lesson day within the modules and use the link to view the lesson video. The student is still responsible for completing homework that is assigned on the day of an absence.
- Assignments due on the day of an excused absence must still be uploaded and submitted on Canvas by 5 p.m. on that day.
- Students should contact the instructor (in advance in the case of a pre-arranged absence or within 3 school days of the return from other excused absences) in order to make arrangements to complete missed work such as quizzes or exams.
- If an absence is unexcused, missed homework assignments, quizzes, or tests will not be accepted for credit.

Technology

- The TI-84 graphing calculator will be used extensively throughout the course. You must arrange to have a TI-84 or comparable substitute with you each day in class and for each class test. The AP Calculus AB exam contains questions which require the use of a graphing calculator, so some quiz and test questions will require the use of a graphing calculator.
- Laptops should not be active during class unless requested by the instructor. (No other technology, including cell phones, video games, pagers, beepers, or mp3 players, should be active during class!)

Student Evaluation

- Exams:** An exam, modeled on the AP Exam, will be given at the end of each of the four units of study.
- Quizzes:** Approximately 7-10 short quizzes, both announced and unannounced, will be given.
- Homework:** *Homework usually will be assigned each class period and will be **due at the beginning of the next** class period. Homework should be **labeled clearly** and **completed neatly**. Upon request, homework should be scanned as a pdf and uploaded to Canvas. Each assignment will be checked or graded at the discretion of the instructor. (See Canvas for instructions on how to create .pdf files)
***LATE CARD POLICY:** If an assignment is not submitted on Canvas by the time it is requested, it will be considered late. During the semester, each student will be allowed exactly one opportunity to submit a late assignment, if it is submitted by the next class period.
No additional LATE homework assignments will be accepted.
- Projects:** Extended assignments involving challenging applications and problems will be given either as individual or group projects. Each project should include a detailed report of the methods and solution as well as the "correct" answer.
- Final:** A two-hour comprehensive final will be given at the end of the semester.
- Grades:** Students final grades will be determined as follows:
- | | | | |
|-----|----------------------------|-----|-----------------|
| 20% | from quizzes | 45% | from exams |
| 10% | from homework and projects | 25% | from final exam |
- Final letter grades will be assigned as follows:
- | | | |
|-------------------------|-------------------------|-----------------------------------|
| A = [92 to 100 percent] | B = [82 to 87 percent] | C = [72 to 77 percent] |
| A- = [90 to 92 percent] | B- = [80 to 82 percent] | C- = [70 to 72 percent] |
| B+ = [87 to 90 percent] | C+ = [77 to 80 percent] | D* = below 70 percent (No Credit) |
- Adjustments in this scale may be made as deemed necessary by the instructor.

Academic Integrity Policy

Academic dishonesty in any form will not be tolerated. The student is responsible for knowing the policies and consequences as stated in the Academy handbook. For this course, students should be aware of the following ways in which these policies specifically apply:

- Cooperative group work on homework assignments is appropriate and is encouraged, but simple copying of an assignment from another or allowing another to copy your homework without collaboration is not acceptable.
- Additionally, exchanging ANY information about the content of quizzes or tests with students yet to take the exam or solicitation of such information is a severe violation of academic honesty standards.
- In quiz or test situations, calculators or other materials should not be used unless the instructor expressly communicates that it is allowed on that section of a quiz or test.

If you have any questions regarding what constitutes cheating, please come to see me. In order to preserve the credibility of all students' grades, I encourage you to tell me if you observe violations of the integrity policy.

Diversity and Inclusion Policy

Ball State University aspires to be a university that attracts and retains a diverse faculty, staff, and student body. We are committed to ensuring that all members of the community are welcome, through valuing the various experiences and worldviews represented at Ball State and among those we serve. We promote a culture of respect and civil discourse as expressed in our Beneficence Pledge and through university resources found at <http://cms.bsu.edu/campuslife/multiculturalcenter>.

Indiana Academy Mask Policy

The Indiana Academy will follow [Ball State University's mask policy](#) (see Section IV). Based on current CDC guidance recommending the wearing of face masks for all people—regardless of vaccination status—in public indoor settings in communities where the rate of coronavirus transmission is high or substantial, all employees, students, and campus visitors are required to wear a mask while inside any University building. This requirement is effective on August 9, 2021. Fully vaccinated people are not required to wear masks outdoors.

Individuals who are not fully vaccinated for COVID-19 are required to wear face masks while inside campus buildings and outside when physical distancing cannot be maintained.

If a student declines to wear a face mask as required, the student will be referred to the Director of Academic Affairs or the Director of Residential Affairs. If the situation occurs in a classroom or other academic setting, it is considered a classroom management issue, and the teacher will remind the student of the requirement and give the student a chance to comply with it prior to referring the matter to the Director of Academic Affairs or the Director of Residential Affairs. Wearing masks is crucial to preventing the spread of COVID-19 to others.