

The Indiana Academy
Course Syllabus Fall 2025
ADVANCED PLACEMENT CALCULUS BC 2

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Office Hours

<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>
12–1 p.m. 2–3 p.m.	2–3 p.m.	12–1 p.m. 2–3 p.m., 4–6 p.m.	12–1 p.m.	12–1 p.m. 2–3 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

<AP Calculus BC 1> or <AP Calculus AB 1 and 2> or <equivalent>.

Dual Credit

Students may choose to also enroll for credit in MATH 166 (Calculus 2) through Ball State University. Interested students may complete the enrollment process by working with their Academic Advisors.

Content

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

- Applications of Integration
- Techniques of Integration
- L'Hospital's Rule
- Improper Integrals
- Infinite Series
- Conic and Calculus
- Parametric Equations and Calculus
- Polar Curves and Calculus
- Vector Functions and Calculus

Texts

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

Attendance and Late Work Policy

Attendance is mandatory. Students may receive excused absences at the professional discretion of the school nurse, the associate director of mental health services, the associate director of college counseling and student engagement, the director of academic affairs, and the executive director of the Indiana Academy. Unexcused absences occur when students miss class without prior approval from the aforementioned designated school officials. Continued absences (both excused and unexcused) from Academy classes increase the likelihood of unsuccessful completion.

Alongside steady attendance, students are expected to maintain consistent healthy habits of decorum, respect, and kindness towards their classmates, instructors, and teaching assistants. When students fail to meet these classroom behavioral standards and academic habits, it is the expectation faculty engage appropriately to bring quick and immediate resolution. When students consistently fail to meet these behavioral standards and academic habits in the classroom, an administrative consequence ladder will be adopted, and recorded, in attempt to administratively address, engage, and rectify ongoing challenges.

- Promptness and attendance are expected. Academy policies on attendance/tardiness will be followed. Sleeping in class constitutes an unexcused absence. Being late more than 10 minutes late is an unexcused absence.

- Class attendance is crucial to success in this course. If a class session is missed, the student should use the assignment sheet to identify the material that was missed due to the absence and should view the corresponding lecture content using the lesson videos on the Canvas course website.
- It is the policy of the Indiana Academy that any absence from class is unexcused, except for illness, death in the family, college or school-related activities, and extenuating circumstances. When a student is absent from a class, the instructor reports the student absence to the Faculty Attendance Coordinator in the Office of Academic Affairs. Unless the absence is excused by a school official, it is considered unexcused. The decision as to whether an absence is excused is not determined by the instructor.
- If an absence is unexcused, missed homework assignments or quizzes will not be accepted for credit. Students are still encouraged to complete such assignments to gain the essential practice that is provided through them. Missed major tests will be allowed to be taken for credit but will incur a 5% penalty.
- Students should contact the instructor (in advance in the case of a pre-arranged absence or within 2 school days of the return from other excused absences) in order to make arrangements to complete missed work such as quizzes or exams. The assessment should be completed as soon as possible, but no more than two weeks after the original date.
- Assignments due on the day of an excused absence should be submitted by the following class period.
- Four or more unexcused absences will lead to academic and residential consequences beyond the scope of this class as determined by the Office of Academic Affairs and the Office of Residential Life that may include detention, residential groundings, parent/principal conference, among others.
- If an absence is unexcused, missed quizzes will not be accepted for credit. Missed major tests will be allowed to be taken for credit but will incur a 5% penalty.
- Students should contact the instructor (in advance in the case of a pre-arranged absence or within 2 school days of the return from other absences) in order to make arrangements to complete missed work such as quizzes or exams. The assessment should be completed as soon as possible, but no more than two weeks after the original date.

Technology

- The TI-84 graphing calculator will be used extensively throughout the course. Students who do not have an AP approved graphing calculator will be required to rent a TI-84 graphing calculator. 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 exam contains questions which 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, pagers, beepers, video games, or stereos, should be active during class!)

IA Wireless Device Policy

Pursuant to Indiana Code 20-26-5-40.7, The Indiana Academy for Science, Mathematics and Humanities prohibits student use of wireless communication devices for non-instructional purposes in the classroom. As such, any and all portable wireless devices, that have the capability to provide voice, messaging, or other data communication between two or more parties, must only be used for academic purposes directly tied to the classroom activity or related educational task. Exceptions to this wireless device policy are eligible through academic accommodations, individualized education programs, or with instructor approval permitting the use of a wireless device for justification related to health, safety, and/or well-being. The improper use of a wireless device in an active classroom setting is subject to disciplinary action including but not limited to; a verbal warning, temporary seizure of said device by a school official, an unexcused absence for the class in question, written communication to parent/guardian, among other elevated consequences for repeated improper use.

Student Evaluation

- Exams:** An exam, modeled on the AP Exam, will be given at the end of each of the five units of study.
- Quizzes:** Approximately 9-12 short quizzes, both announced and unannounced, will be given.
- Homework:** *Mathematics is not a spectator sport! Homework is an essential part of the learning process.
*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 with the text section number, completed neatly**, and organized in a folder/notebook for this course. Assignments will be collected in class at the discretion of the instructor and graded for completion and/or accuracy.

***LATE CARD POLICY:** If an assignment is not submitted in class when 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 designated period during finals week.

Grades: Students final grades will be determined as follows:

20%	from quizzes	50%	from exams
5%	from homework & 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. Specific for this course include:

- 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.
- Artificial intelligence (AI) provides exciting new tools for academic work.
 - It is appropriate to use AI to explore solutions and to discover methods of approaching problems in homework situations. AI used as a learning tool can increase and support student understanding.
 - AI also poses significant dangers for academic integrity. Passing off as your own any research, words, ideas, work, or solutions which you did not create is plagiarism. Whether the source is print, internet content, or generated by AI, copying work from outside resources and presenting it as your original work is not allowed. Use of AI should be properly documented.
- Giving information about the content of quizzes or tests to 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 such aides are allowed on that section of a quiz or test.

To preserve the credibility of all grades, I encourage you to tell me if you observe violations of the integrity policy.

Ball State University Beneficence Pledge

Ball State University aspires to be a university that attracts and retains outstanding faculty, staff, and students. Ball State is committed to ensuring that all members of the campus community are welcome through our practice of valuing the varied experiences and worldviews of the people whom we serve. We promote a culture of respect and civil discourse as evident in our Beneficence Pledge. As a reflection of Ball State's commitment to respect, civil discourse, and the Beneficence Pledge, inclusiveness at the Indiana Academy emerges as one of the priorities of our living and learning community. We strive to exist together respectfully and compassionately, creating an environment where every member can thrive.

Brownie Points

Be sure to bring the instructor one of your senior pictures!