



South Windsor High School
 161 Nevers Road
 South Windsor, CT 06074
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 website: www.southwindsorschools.org/highschool

2023 - 2024 COURSE EXPECTATIONS

Course Name:	AP Calculus (AB and BC)
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Teacher Name(s)	Email	Phone
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Course Overview: This course covers differential and integral calculus. Applications of differential calculus that are covered are related rates, velocity, acceleration and optimization problems. Applications of integral calculus that are covered are area and volume. Students will use graphing calculators in many ways, including visualizing functions and computing derivatives and integrals.

Vision of the Successful Student And Core Competencies:
 The successful student will...

- demonstrate the ability to solve problems using correct mathematical processes.
- effectively communicate, orally and in writing, the processes and reasoning used to arrive at solutions.
- make connections and effectively apply learned material to new situations.
- identify whether or not a solution is reasonable and revise if necessary.
- use technology to enhance mathematical literacy.
- demonstrate academic integrity as outlined in the Bobcat Student Handbook.
- be a collaborative individual who learns from and contributes to the classroom environment.
- exhibit appropriate behavior for the classroom, including respect, responsibility and engagement.

Materials and Resources to Support Student Learning:

- Graphic calculator technology (TI-83/84) is integrated throughout the course. Students are encouraged to have access to one for use outside the classroom.
- If the student is enrolled in AP level, the AP Central website is a good reference for preparing for the exam at the end of the year.
- In addition, there are many other calculus websites that could be used for tutorial purposes.

Evidence of Student Learning: Gradebook Categories

Assessments	80%	<ul style="list-style-type: none"> ● Activities that allow students to demonstrate mastery and application of taught concepts and skills ● May vary in format and occur at various points through the unit. ● Assessments may include (but are not limited to): <ul style="list-style-type: none"> ○ problem sets ○ quizzes ○ tests ○ performance tasks ○ projects
Learner Tasks	20%	<ul style="list-style-type: none"> ● Activities that provide opportunities to practice content and skills when mastery would not yet be expected ● Accountability for timely completion and submission of assignments ● May vary in format and occur at various points through the unit. ● Learner tasks may include (but are not limited to): <ul style="list-style-type: none"> ○ homework, classwork, practice problem sets ○ warm-ups, check-ins, exit passes, ○ work habits, engagement, readiness for class

Late Work:

- Late work is accepted up until the material is assessed (i.e. quiz, test).
- Full credit earned for homework completed on-time; reduced credit for homework submitted late; homework not submitted earns no credit.
- Students who are absent will have additional time to complete assignments without penalty as described in the Bobcat Handbook.