



LISLE SENIOR HIGH SCHOOL

AP Calculus AB

Department Contact Information

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DEPARTMENT MISSION

The mission of the Lisle mathematics department is to provide students with the mathematical concepts and skills necessary for success in college and the workplace. The instruction, tasks, and assessments are aligned with the Common Core State Standards and mathematical practices. Students will be encouraged to think and to make conjectures while persevering through challenging problems. They will be educated to be critical thinkers and collaborative problem solvers.

COURSE DESCRIPTION

Advanced Placement Calculus is a comprehensive year-long course in the study of both differential and integral calculus. It is intended to be the equivalent of a college level Calculus I course. Students will be studying the concepts of functions, graphs, limits, derivatives and integrals as outlined in the AP Calculus Course description (as it appears on the AP Central website). The intent is for students to master the fundamentals of calculus in order to succeed on the AP Calculus AB exam and be adequately prepared to be successful in higher level mathematics courses. A TI-84 graphing calculator is required for this course.

COURSE LEARNING STANDARDS

First Semester:

Analysis of graphs, Limits of functions (including one-sided limits), Asymptotic and unbounded behavior, Continuity as a property of functions, Concept of the derivative, Derivative at a point, Computation of derivatives, Derivative as a function, Second derivatives, Applications of derivatives

Second Semester:

Interpretations and properties of definite integrals, Applications of integrals, Fundamental Theorem of Calculus, Techniques of antidifferentiation, Applications of antidifferentiation, Numerical approximations to definite integrals





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COURSE GRADING POLICY

Course Grade

90% - Summative Assessment

10% - Formative Assessment

Final Semester Grade

80% - Course Grade

20% - Semester Exam

Grading Scale

100-90 A

89-80 B

79-70 C

69-60 D

59-50 F

LATE WORK POLICY

Late work is accepted up until the unit assessment. The student shall receive no more than 50% credit for submitting late work.

COMMUNICATION WITH COURSE TEACHER(S)

Communication is vitally important. Teachers make every effort to respond to emails within 48 hours during the work week. If you have not received a response within 48 hours please resend your email and/or call their voicemail.

OTHER SUPPORT

Students should come in before or after school to get help from their teacher. The Learning Lions Center in the library is available before or after school or during their study hall period. This service is available Monday, Tuesday, and Thursday. Parents should actively monitor your student's grade on PowerSchool. Please talk to your child about their school work. Check with your individual teacher to learn more about classroom procedures and schedules.

