

AP[®] CALCULUS AB

HIGH SCHOOL YEAR

TEACHER:

Course Overview

The purpose of this course is to prepare students for success in college mathematics and the AP[®] Calculus AB exam. The course is designed around the principles of the AP[®] Calculus AB goals and standards. The exam prep will be addressed in the form of the assessments given throughout the course; the emphasis is on the content and connections between topics and representations. The assessments will flow naturally from the content.

Each exam in the course is cumulative. Over the course of a school year, students will take 10 cumulative exams and an AP[®] style final. Exams will be instructor written questions and multiple choice forms including many released multiple choice and free response questions from past AP[®] exams. The free response rubrics are used in the assessment process.

Students are encouraged to write throughout the course to increase students literacy and build stronger connections between theory and practice. Emphasis is placed upon making connections between concepts and multiple representations (words, numbers, graphs, tables, and verbal). Further, students will be required to regularly present and defend work and solutions on open ended problems to strengthen oral communication skills and conceptual understanding.

Text:

Smith and Winton, *Calculus (Early Transcendental Functions)* 2nd Edition
New York: McGraw-Hill, 2007

Endorsed Materials

- AP[®] Calculus AB Free Response Questions posted on apcentral
- AP[®] Calculus AB Multiple Choice Questions posted on apcentral
- Materials created by the instructor
- Supplementary readings from various Internet sources

Class/Classroom

Our school conducts class in a standard 50 minute, 7 period day with early release on Fridays that alternate between scheduled classes. Student is meet for each class 4 or 5 times per week.

Graphing Calculators and Personal Technology

Each student in class has their own graphing calculator, either a TI-82 or a TI-89 regular or plus. While instruction is provided throughout the year on this device to prepare students, nonstandard including nDeriv(), rNint, etc. are not taught directly until the middle portion of the course in March. These tools are brought only after students have mastered the appropriate relation and have a strong grasp of the concepts to aid in time management and accuracy during the AP[®] assessment. Use during the course will be based on helping students connect multiple representations of concepts between graphs, numbers, analytic and tabular forms.

For graphing tasks and other instructional, instructional, and research activities students will use either their personal technology including iPads, tablet computers, iPhones, and iPads as well as a Dell class set of iPads purchased through a grant. Applications for these efforts for later display which is very helpful for identifying and discussing function behavior prior to using the built display of the graphing calculators.

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Sebastian Brünink



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Princeton Review AP Calculus AB Premium Prep, 12th Edition The Princeton Review, David Khan, 2025-08-05 PREMIUM PRACTICE FOR A PERFECT 5 WITH THE MOST PRACTICE ON THE MARKET Ace the newly digital AP Calculus AB Exam with The Princeton Review's comprehensive study guide Includes 8 full length practice tests with complete explanations timed online practice and thorough content reviews Techniques That Actually Work Tried and true strategies to help you avoid traps and beat the test Tips for pacing yourself and guessing logically Essential tactics to help you work smarter not harder Everything You Need for a High Score Updated to address the new digital exam Comprehensive content review for all test topics Online digital flashcards to review core content Drills handy study guides helpful pre college information and more via your online Student Tools Premium Practice for AP Excellence 8 full length practice tests 3 in the book 5 online with detailed answer explanations Online tests provided as both digital versions with timer option to simulate exam experience online and as downloadable PDFs with interactive elements mimicking the exam interface End of chapter drills and targeted practice problem sets Step by step walk throughs of key formulas and sample questions Mapping Equity and Quality in Mathematics Education Bill Atweh, Mellony Graven, Walter Secada, Paola Valero, 2011-01-06 Concerns about quality mathematics education are often posed in terms of the types of mathematics that are worthwhile and valuable for both the student and society in general and about how to best support students so that they can develop this mathematics Concerns about equity are about who is excluded from the opportunity to develop quality mathematics within our current practices and systems and about how to remove social barriers that systematically disadvantage those students This collection of chapters summarises our learning about the achievement of both equity and quality agendas in mathematics education and to move forward the debate on their importance for the field **Teaching Secondary and Middle School Mathematics** Daniel J. Brahier, 2024-01-22 Teaching Secondary and Middle School Mathematics combines the latest developments in research technology and standards with a vibrant writing style to help teachers prepare for the excitement and challenges of teaching secondary and middle school mathematics The book explores the mathematics teaching profession by examining the processes of planning teaching and assessing student progress through practical examples and recommendations Beginning with an examination of what it means to teach and learn mathematics the reader is led through the essential components of teaching concluding with an examination of how teachers continue with professional development throughout their careers Hundreds of citations are used to support the ideas presented in the text and specific websites and other resources are presented for future study by the reader Classroom scenarios are presented to engage the reader in thinking through specific challenges that are common in mathematics classrooms The seventh edition has been updated and expanded with particular emphasis on the latest technology standards and other resources The reader is introduced to the ways that students think and how to best meet their needs through planning that involves attention to differentiation as well as how to manage a

classroom for success Features include Following on from the sixth edition assessment takes a central role in planning and teaching Unit 3 of 5 addresses the use of summative and formative assessments to inform classroom teaching practices A new appendix is included that lists websites that can be used in a methods class to view other teachers interacting with students for discussion of effective teaching practices The feature entitled Links and Resources has been updated in each of the 13 chapters Five strongly recommended and practical resources are spotlighted at the end of each chapter as an easy reference to some of the most important materials on the topic Approximately 150 new citations have either replaced or been added to the text to reflect the latest in research materials and resources that support the teaching of mathematics Significant revisions have been made to Chapter 12 which now includes updated research and practices as well as a discussion on culturally responsive pedagogy Likewise Chapter 8 now includes a description of best and high leverage teaching practices and a discussion in Chapter 11 on alternative high school mathematics electives for students has been added Chapter 9 on the practical use of classroom technology has again been revised to reflect the latest tools available to classroom teachers including apps that can be run on handheld personal devices in light of changes in education resulting from the global pandemic An updated Instructor s Manual features a test bank sample classroom activities PowerPoint slide content chapter summaries and learning outcomes for each chapter and can be accessed by instructors online at www.routledge.com/9781032472867 *College Calculus* Michael E. Boardman, Roger B. Nelsen, 2015-03-03 *College Calculus A One Term Course for Students with Previous Calculus Experience* is a textbook for students who have successfully experienced an introductory calculus course in high school *College Calculus* begins with a brief review of some of the content of the high school calculus course and proceeds to give students a thorough grounding in the remaining topics in single variable calculus including integration techniques applications of the definite integral separable and linear differential equations hyperbolic functions parametric equations and polar coordinates L H pital s rule and improper integrals continuous probability models and infinite series Each chapter concludes with several Explorations extended discovery investigations to supplement that chapter s material The text is ideal as the basis of a course focused on the needs of prospective majors in the STEM disciplines science technology engineering and mathematics A one term course based on this text provides students with a solid foundation in single variable calculus and prepares them for the next course in college level mathematics be it multivariable calculus linear algebra a course in discrete mathematics statistics etc *Acing Admissions* Kavita Mehta, Kimberly Wright Dixit, 2020-03-28 *Acing Admissions* is the only guide you need to help navigate the US undergraduate studies application process Written with the international student in mind *Acing Admissions* outlines frameworks for developing a college list provides a step by step guide to submitting your application and describes the range of financial aid options available to international students The book also gives detailed timelines with checkpoints for students who want to start planning as early as 8th grade Practical advice is conveyed through anecdotes and case studies featuring real applicant

stories based on the authors years of experience running an education consulting practice for students and families living outside the US **MAA Notes** ,1983 **Preparing for a New Calculus** Anita E. Solow,1994 **How to Prepare for the Advanced Placement Examination Mathematics** Shirley O. Hockett,David Bock,1995 Review for the AP Mathematics Test covers Calculus AB and Calculus BC Eight practice tests reflect the actual exam in question types length and degree of difficulty Review sections cover functions limits and continuity differentiation integration applications and sequences and series All questions are answered and explained *Bold Ventures* Raizen,2012-12-06 This book presents comprehensive results from case studies of three innovations in mathematics education that have much to offer toward understanding current reforms in this field Each chapter tells the story of a case in rich detail with extensive documentation and in the voices of many of the participants the innovators the teachers the students Similarly Volume 2 of *Bold Ventures* pre sents the results from case studies of five innovations in science education Volume 1 provides a cross case analysis of all eight innovations Many U S readers certainly will be very familiar with the name of at least one if not all of the mathematics innovations discussed in this volume for example the NCTM Standards and probably with their general substance Much of the education community s familiarity with these arises from the pro jects own dissemination efforts The research reported in this volume however is one of the few detailed studies of these innovations undertaken by researchers outside the projects themselves **Directory of Distance Learning Opportunities** Modoc Press, Inc.,2003-02-28 This book provides an overview of current K 12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6 000 courses offered by 154 institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of Courses Offered by Level Course Level Index Geographic Index All information was supplied by the institutions Entries include current contact information a description of the institution and the courses offered grade level and admission information tuition and fee information enrollment periods delivery information equipment requirements credit and grading information library services and accreditation

Unveiling the Energy of Verbal Beauty: An Psychological Sojourn through **Ap Calculus Ab Syllabus College Board**

In a world inundated with monitors and the cacophony of immediate transmission, the profound energy and psychological resonance of verbal art frequently diminish into obscurity, eclipsed by the regular onslaught of noise and distractions. However, set within the lyrical pages of **Ap Calculus Ab Syllabus College Board**, a interesting work of fictional brilliance that pulses with natural thoughts, lies an memorable journey waiting to be embarked upon. Published by way of a virtuoso wordsmith, this magical opus books visitors on an emotional odyssey, softly revealing the latent possible and profound influence embedded within the intricate internet of language. Within the heart-wrenching expanse of this evocative examination, we shall embark upon an introspective exploration of the book is main themes, dissect their charming publishing type, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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