



ADVANCED PLACEMENT AT BURNABY MOUNTAIN

THE BENEFITS OF AP:

The Advanced Placement (AP) program gives high school students the opportunity to experience college-level coursework while still earning their high school diploma. Students who successfully complete AP exams and achieve a score of 4 or 5 (on a 5-point scale) may be eligible to receive university or college credit for an equivalent course after admission. This can save students hundreds of dollars in tuition costs and, at some institutions, may allow them to begin university in more advanced courses during their first year.

Research also shows that students who complete AP courses tend to achieve higher grades in university compared to peers who did not take AP courses. Even for students who choose not to write the AP exam, successful completion of an AP course is recorded on their official B.C. Ministry of Education Transcript and can strengthen their university applications.

Worldwide, the AP program serves more than 2 million students who write over 4 million exams each year. Across Canada, the Burnaby School District is home to one of the largest AP programs in the country. British Columbia students also achieve some of the highest AP results of any state or province worldwide. Within Burnaby, our students consistently outperform the national average by approximately 10%. Each year, the AP program continues to grow across the district, reflecting its success and the strong academic opportunities it provides for students.

AP COURSES OFFERED:

- AP Biology
- AP Chemistry
- AP Physics 1
- AP Computer Science A
- AP Computer Science Principles
- AP Precalculus
- AP Calculus AB
- AP Statistics
- AP Psychology
- AP Human Geography
- AP Macroeconomics and Microeconomics
- AP Music Theory
- AP Chinese and Culture
- AP French
- AP English Literature and Composition



ARTS

AP MUSIC THEORY

AP Music Theory is an introductory college-level music theory course. Students cultivate their understanding of music theory through analyzing performed and notated music as they explore concepts like pitch, rhythm, form, and musical design. *PRE-REQ: basic music/notation reading. Experience in ensemble, choir, and/or piano is recommended.*



SOCIAL SCIENCES

AP HUMAN GEOGRAPHY

This is an introductory college-level human geography course. Students use data and geographic analyses as they explore topics like patterns and spatial organization, human impacts and interactions with their environment, and spatial processes and societal changes. *PRE-REQ: Social Studies 10*

AP MACROECONOMICS AND MICROECONOMICS

This is one course, but students write two separate AP exams. In macroeconomics, students explore concepts like economic measurements, markets, macroeconomic models, and macroeconomic policies. In microeconomics, students learn concepts like scarcity and markets; costs, benefits, and marginal analysis; production choices and behavior; and market inefficiency and public policy. *PRE-REQ: Social Studies 10*

AP PSYCHOLOGY

In this introductory college-level course, students cultivate their understanding of the systematic and scientific study of human behavior and mental processes. They explore concepts like the biological bases of behavior, sensation, and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology. *PRE-REQ: Social Studies 10*



LANGUAGES

AP CHINESE LANGUAGE & CULTURE

This is equivalent to an intermediate-level college course in Chinese. Students apply interpersonal, interpretive, and presentational modes of communication as they explore concepts related to community, identity, aesthetics, technology, and global challenges. *PRE-REQ: Fluency in Mandarin*

AP French Language and Culture

An advanced French course that develops listening, speaking, reading, and writing skills while exploring the cultures of the French-speaking world

AP ENGLISH LITERATURE AND COMPOSITION

In this intro. level college course, students cultivate their understanding of literature through reading and analyzing texts as they explore concepts like character, setting, structure, perspective, figurative language, and literary analysis in the context of literary works.

SCIENCES



AP BIOLOGY

This is a 2-year program where students take Life Sciences Enriched in grade 11 followed by AP Biology in grade 12. Students cultivate their understanding of biology through inquiry-based investigations as they explore topics like evolution, energetics, information storage and transfer, and system interactions. *PRE-REQ: Life Sciences 11 Enriched*

AP CHEMISTRY

This is a 2-year program where students take Chemistry 11 Enriched in grade 11, followed by AP Chemistry in grade 12. Students cultivate their understanding of chemistry through inquiry-based lab investigations as they explore the four Big Ideas: scale, proportion, and quantity; structure and properties of substances; transformations; and energy. *PRE-REQ: Chemistry 11 Enriched*

AP PHYSICS 1: ALGEBRA-BASED

This class will prepare students to write the AP Physics 1 exam as well as cover curriculum to earn credit for Physics 11. Students cultivate their understanding of physics through classroom study, in-class activity, and hands-on, inquiry-based laboratory work as they explore concepts like systems, fields, force interactions, change, conservation, and waves. *PRE-REQ: Strong performance in Science 10*

AP PHYSICS 2: ALGEBRA-BASED

This class will prepare students to write the AP Physics 2 exam as well as cover curriculum to earn credit for Physics 12. Students cultivate their understanding of physics through classroom study, in-class activity, and hands-on, inquiry-based laboratory work as they explore concepts like systems, fields, force interactions, change, conservation, waves, and probability. *PRE-REQ: AP Physics 1*

MATH & COMP. SCIENCE

AP Computer Science A

An introductory university-level programming course where students analyze, write, and test code while learning core concepts such as variables, control structures, methods, and classes. **Prerequisite:** Previous coding experience.

AP Computer Science Principles

An introductory course that explores the breadth of computer science. Students develop algorithms and programs, solve real-world problems, and examine the impact of computing on society.

AP Precalculus

A university-level mathematics course that explores polynomial, rational, exponential, logarithmic, and trigonometric functions. Students earn credit for both **AP Precalculus** and **Precalculus 12**.

AP CALCULUS AB

In this introductory-level college calculus course, students cultivate their understanding of differential and integral calculus through engaging with real-world problems represented graphically, numerically, analytically, and verbally.

PRE-REQ: Strong performance in Pre-Calculus 12

AP STATISTICS

Students are introduced to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. They explore concepts like variation and distribution; patterns and uncertainty; and data-based predictions, decisions, and conclusions.

PRE-REQ: Pre-Calculus Math 10, English 10



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<https://mountain.burnabyschools.ca/departments/advanced-placement-ap-2>