

Advanced Placement (AP) Series

CTYOnline offers rigorous Advanced Placement (AP) courses for students in high school. These courses cover college-level material and prepare students to take AP exams offered through the College Board testing program. All CTYOnline AP courses are authorized to use the College Board's "AP" designation.

Why do students enroll in AP courses and take AP exams?

High school students who undertake AP-level course work demonstrate readiness for college-level curricula and willingness to tackle challenging academic material. Many universities and colleges award advanced standing or credit based on the student's AP test scores in high school. Depending on the university's policies, a student with qualifying AP test scores may be able to begin studying the subject at a higher level or be awarded credit that will count toward a degree with that university. Policies about awards, advanced standing, and required AP scores vary by university. Some AP courses also prepare students to take SAT II subject tests. See chart on page 38.

When are CTY's AP courses offered?

All CTYOnline AP courses, except AP Calculus AB and AP Calculus BC, are offered in the session-based format with specific start and end dates. Students receive a course schedule specifying due dates for assignments and tests.

Intensive Spring Session :

February 9, 2009 - May 1, 2009

NEW in 2009!

Intensive Summer Session :

June 15, 2009 - September 4, 2009

Academic Year Session:

October 5, 2009 - April 30, 2010

Application deadlines are listed on the inside back cover.

Who is eligible to take CTYOnline AP courses?

Each AP course offered by CTYOnline has different eligibility requirements. To enroll in a math or science AP course, students must have a qualifying

AP Calculus

The calculus courses follow the program guidelines for CTYOnline math courses, which are individually paced and integrated with CTY's math series. Students may enroll in AP Calculus AB or AP Calculus BC at any time during the year. They may also be advanced to the AP Calculus series if they previously enrolled in precalculus and completed that course with enrollment time remaining. Students intending to take one of the AP Calculus exams should enroll by early January at the latest to allow enough time to complete the course before the AP tests in May.

AP Calculus AB

AP Calculus AB covers the material typically covered in a first semester college calculus course and prepares students to take the AP Calculus AB exam. See page 16 for details.

AP Calculus BC

AP Calculus BC covers the material typically covered in college calculus I and II and prepares students to take the AP Calculus BC exam. See page 16 for details.

math score on the SAT I or ACT. Courses in writing, humanities, and the social sciences require a qualifying reading/verbal score on the SAT I or ACT. PSAT scores may be submitted for new students in grades 9-12, who are unable to participate in testing arranged by CTY Talent Search. In addition, most AP courses have prerequisites to ensure that students have the necessary academic background to master the course material. See course descriptions for details.

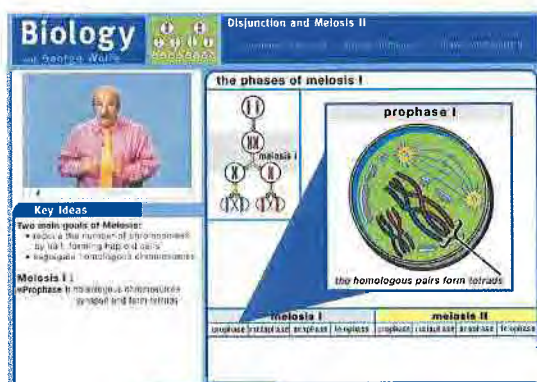
"We love the AP program - it works out well for our school. Our students love the courses. The instructors did a wonderful job in working with our students and preparing them for the AP exams."

- School principal

AP Biology

Prerequisites: Qualifying math score, see page 44; completion of high school biology or equivalent
Recommended School Credit: 1.0 credit
Length: Intensive summer and spring sessions require an average of 12-15 hours per week for 12 weeks, with no breaks. Academic year session requires an average of 6-8 hours per week, with breaks for holidays.
Course Code: APBI

The AP Biology course covers topics typically found in a first-year introductory college biology course and advances the student's understanding of concepts normally covered in high school biology. Major course themes include biochemistry, energy transfer, cellular structure and specialization, cellular metabolism, mitosis and meiosis, genetics, ecology, and evolution. Organismal diversity, from microorganisms to plants and animals, and the continuity of life through genetics and development are emphasized. Highly qualified instructors guide students through online lectures, readings, animations, laboratory exercises, and other resources. Student knowledge is assessed through homework assignments and exams. This course includes a laboratory component designed to meet College Board standards and provides solid preparation for the AP Biology exam.



AP Biology

"This course was amazing. Everything was well explained and the website was very easy to use. My instructor was a big help with her prompt feedback about our work or about any questions."

- CTYOnline student

AP Chemistry

Prerequisites: Qualifying math score, see page 44; completion of high school chemistry or equivalent
Recommended School Credit: 1.0 credit
Length: Intensive summer and spring sessions require an average of 12-15 hours per week for 12 weeks, with no breaks. Academic year session requires an average of 6-8 hours per week for 30 weeks, with breaks for holidays.
Course Code: APCH


The AP Chemistry course covers topics typically found in a first-year introductory college chemistry course and advances the student's understanding of concepts normally covered in high school chemistry. Major course themes include relationships in the periodic table, atomic theory, chemical bonding, phases of matter and solutions, equilibria, reaction kinetics, organic chemistry, and thermodynamics. Highly qualified instructors guide students through online lectures, readings, animations, laboratory exercises, and other resources. Student knowledge is assessed through homework assignments and exams. This course includes a laboratory component designed to meet College Board standards and provides solid preparation for the AP Chemistry exam.



AP Physics B

Prerequisites: Qualifying math score, see page 44; completion of Algebra II and high school physics

Textbook Purchase Required:

 For ordering information visit

www.cty.jhu.edu/ctyonline/textbooks.html

Recommended School Credit: 1.0 credit

Length: Intensive spring and summer sessions require an average of 15-20 hours per week for 12 weeks, with no breaks. Academic year session requires an average of 8-10 hours per week for 30 weeks, with breaks for holidays.

Course Code: APPH

The AP Physics B course covers topics typically found in a first-year introductory college physics course and advances the student's understanding of concepts normally covered in high school physics. Major course themes include Newton's Laws, Pascal's and Archimedes' Principles, solid and fluid mechanics, wave motion and sound, magnetism, thermodynamics, circuits, optics, quantum mechanics, particle physics, and astrophysics. Highly qualified instructors guide students through online lectures, readings, animations, laboratory exercises, and other resources. Student knowledge is assessed through homework assignments and exams. This course includes a laboratory component designed to meet College Board standards and provides solid preparation for the AP Physics B exam. This demanding course requires a substantial time commitment throughout the entire session and should not be combined with other CTY courses.

AP Macroeconomics

Prerequisites: Qualifying reading/verbal score, see page 44; completion of Algebra II

Recommended School Credit: 0.5 credit

Length: Intensive spring and summer sessions (12 weeks) require 10-14 hours per week. Academic year session (30 weeks) requires 4-7 hours per week, with breaks for holidays.


Course Code: APMA

AP Macroeconomics is an introduction to how the market system works, how prices are determined, why shortages and surpluses occur, and why incomes differ. The course emphasizes the study of national income, price determination, economic performance measures, economic growth, and international economics. This course prepares students to take the AP Macroeconomics exam.

AP Microeconomics

Prerequisites: Qualifying reading/verbal score, see page 44, and completion of Algebra II

Textbook Purchase Required:

 For ordering information visit

www.cty.jhu.edu/ctyonline/textbooks.html

Recommended School Credit: 0.5 credit

Length: Intensive spring and summer sessions (12 weeks) require 10-14 hours per week. Academic year session (30 weeks) requires 4-7 hours per week, with breaks for holidays.

Course Code: APMI

AP Microeconomics is an introduction to the study of the consumers and producers that make up the economy: households, firms, governments, and community organizations. The course provides particular emphasis on the function of consumers and producers within the economic system. The course also offers analysis of the markets in which consumers and producers interact as well as non-market economics. This course prepares students to take the AP Microeconomics exam.

AP English Language and Composition

Prerequisite: Qualifying reading/verbal score, see page 44, completion of grade 10 English and the submission of a satisfactory writing sample, OR the completion of one of the courses below:


CTYOnline

Writing Analysis and Persuasion

CTY Summer Programs

CTY Critical Essay

Textbook Purchase Required:

 For ordering information visit

www.cty.jhu.edu/ctyonline/textbooks.html

Recommended School Credit: 1.0 credit

Length: Intensive spring and summer sessions (12 weeks) require 10 hours per week. Academic year session (30 weeks) requires 3 hours per week, with breaks for holidays.


Course Code: APWR

While preparing students to take the AP exam in English Language and Composition, this course provides training in literary analysis as well as analytical and persuasive writing. In addition to practicing essay test-taking techniques, organization, and time management, students study the interactions among subject, authorial purpose, audience needs, generic conventions, and the resources of the English language. Assignments include a directed narrative, analyses of test questions, analyses of rhetorical strategies, and persuasive essays. Students will also practice taking multiple choice tests which mirror those found in the AP exam.

AP Psychology

Prerequisites: Qualifying reading/verbal score, see page 44; completion of high school biology

Textbook Purchase Required:

 For ordering information visit www.cty.jhu.edu/ctyonline/textbooks.html

Recommended School Credit: 0.5 credit

Length: Intensive spring and summer session (12 weeks) require 10-14 hours per week. Academic year session (30 weeks) requires 3-5 hours per week, with breaks for holidays.

Course Code: APPS

AP Psychology covers the material typically covered in a one semester college-level introductory psychology course. It prepares students to take the AP Psychology exam. Through textbook readings, projects, and directed online activities emphasizing critical thinking and applications, students explore psychology as the science of behavior and of mental processes. Topics include historical perspectives in psychology, scientific method, biological bases of behavior, sensation and perception, consciousness, learning, cognition, motivation and emotion, development, personality, psychological testing and individual differences, abnormal psychology, psychological disorders, and social psychology.

AP United States Government & Politics

Prerequisites: Qualifying reading/verbal score, see page 44; completion of high school US History or equivalent

Recommended School Credit: 0.5 credit

Length: Intensive spring and summer sessions (12 weeks) require 10-14 hours per week. Academic year session (30 weeks) requires 4-7 hours per week, with breaks for holidays.

Course Code: APUS

US Government and Politics is the study of the United States national government's policies, institutions, and foundations. These include constitutional theories forming the basis of government; political beliefs and behaviors; political parties, interest groups, and the mass media; the Congress, presidency, bureaucracy, and Federal court system; public policy; and civil rights and civil liberties. The course provides students with an analytical perspective on American government and politics and prepares them to take the AP United States Government and Politics exam.

To prepare for this test:	Take this course:
SAT II Mathematics Level IC	Honors Geometry and Honors Algebra II
SAT II Mathematics Level IIC	Honors Precalculus with Trigonometry
AP Calculus AB Exam	AP Calculus AB
AP Calculus BC Exam	AP Calculus AB and BC
AP English Language and Composition Exam	AP Language and Composition
AP Chemistry Exam <i>or</i> SAT II Chemistry	AP Chemistry
AP Biology Exam <i>or</i> SAT II Biology E/M	AP Biology
AP Macroeconomics Exam	AP Macroeconomics
AP Microeconomics Exam	AP Microeconomics
AP Physics B Exam <i>or</i> SAT II Physics	AP Physics B
AP Psychology Exam	AP Psychology
AP US Government and Politics Exam	AP US Government and Politics

For AP and SAT II test dates and information, visit The College Board's website at www.collegeboard.com