

**DON BOSCO TECHNICAL INSTITUTE
ADVANCED PLACEMENT NIGHT**

Advanced Placement

- A program of the College Board.
- All AP courses have been reviewed and approved by the College Board.
- All AP exams are prepared and graded by the College Board.
- All AP exam scores are reported directly to the student by the College Board.
- Only the student can authorize the release of scores to colleges that he specifies.

14 Current AP Course Offerings

For Juniors

- ⦿ Chemistry
- ⦿ U.S. History
- ⦿ Calculus AB
- ⦿ Spanish Language

For Seniors

- ⦿ Calculus AB
- ⦿ Calculus BC
- ⦿ Spanish Literature
- ⦿ Computer Science A
- ⦿ Comparative Govt.
- ⦿ English Literature
- ⦿ European History
- ⦿ Macroeconomics
- ⦿ Microeconomics
- ⦿ Physics C: Mech.
- ⦿ U.S. Government
- ⦿ Human Geography

Eligibility

- ⦿ Currently, all courses are taught in the 11th and 12th Grade.
- ⦿ Open enrollment, predicated upon:
 - Student initiation of application.
 - Parent approval of application.
 - Reasonable expectation of success.
 - Completion of pre-requisite where applicable.
 - Faculty endorsement of application.
 - Space available in class.

What AP Will Provide

- The opportunity for enhanced learning.
- The challenge of a rigorous college level course.
- The benefit of veteran, qualified AP instructors.
- The camaraderie of classmates sharing a common challenge.
- AP course designation on student transcript.
- Weighted GPA for grades of A, B or C on student transcript.
- Added recognition in college admission process.

What AP Will Provide (cont.)

- Development of better study habits, improved writing skills and enhanced critical thinking and problem solving abilities.
- Self-confidence that the student is prepared for the challenges of college.
- AP participation has proven to be an excellent indicator for success in college.

What AP May Provide

- ⦿ College credits, issued by the college your student eventually attends, with scores of 3, 4, or 5.
- ⦿ Reduction of the number of required courses your student must take and/or prerequisites for admission to advanced courses at the college your student eventually attends.
- ⦿ Increased eligibility for college scholarships and grants.
- ⦿ Enhanced consideration for college admissions.

What AP Will Not Provide:

- ⦿ Guaranteed admission for your student to the “School of His Dreams.”
- ⦿ College credits assigned to his DBTI transcript.
- ⦿ Students will only receive AP credit on their transcript if they take the AP exam.

The Price

- An exam fee is assessed by the College Board for each exam taken. The fee is determined annually. The current fee is \$86.00 per exam.
- There is no discount for taking multiple exams.
- Fee reductions may be granted to students who are currently receiving needs based financial assistance from DBTI.
- No DBTI student has ever been denied an AP class or exam because of financial hardship.

The Cost

- ◎ “Blood, Toil, Tears and Sweat!”
 - More class work and homework than a normal class.
 - Extensive reading assignments of textual and supplemental materials.
 - Composition of analytical and expository essays.
 - Completion of major research papers.
 - Participation in cooperative learning assignments.

The Cost (cont.)

- ⦿ Delivery of multi-media presentations.
- ⦿ Extensive and continuing review of previous lessons.
- ⦿ After school, weekend and/or holiday period review sessions.
- ⦿ For students, the time as well as the effort to achieve all of this.
- ⦿ For parents, the oversight as well as the support to assure that it is being done.

The Choice

- ⦿ Applications will be available after Easter break.
- ⦿ AP instructors are happy to discuss the requirements of their courses in detail.
- ⦿ This is a serious commitment, so think carefully before signing up.
- ⦿ Before dismissing the possibility because of demands, since the regular courses are “good enough”, ask yourself this question...

”Why not the Best?”

Science Department (Junior Year)

AP Chemistry

AP Chemistry: Teacher

◎ Mr. Eric Tom

• Education

- Johns Hopkins University (BS Biomedical Engineering with a minor in Materials Science, 1999)
- University of Pittsburgh (MS Bioengineering, 2007)
- Loyola-Marymount (MA Education, ongoing)

• Research

- 4 years of engineering research, resulting in 2 publications, 6 abstracts, and \$42,000 in grants
- Other jobs in technical support and chemistry
- 4 years in education

AP Chemistry: Admissions

- ⦿ Open to Juniors
- ⦿ 3-semester course starting in the summer before the junior year
 - Summer preparation class is required
 - Most schools teach it as a 2-year program
- ⦿ Requirements for admission
 - Completion of Geometry with a B or higher
 - Completion of Biology with an A or Honors Biology with a B or higher
 - Filling out an application including recommendations from the math and biology instructors
 - Taking an admissions test which tests quantitative reasoning, formal logic and spatial relations

AP Chemistry vs. General Chemistry

Topic	General	AP
Atomic Structure	√	√
Stoichiometry	√	√
Nomenclature	√	√
Chemical Reactions	√	√
Thermodynamics		√
Kinetics		√
Equilibria		√
Gas Laws		√
Electrochemistry		√

Even within the topics covered by both classes, AP Chemistry covers these topics in much more depth.

AP Chemistry: Exam

- ⦿ The exam has two main sections
 - Section 1: Multiple Choice (45%)
 - 75 questions in 90 minutes (72 sec./question)
 - Section 2: Free Response (55%)
 - Part A (33%): 55 minutes
 - 3 quantitative questions
 - Part B (22%): 40 minutes
 - 1 question on chemical reactions
 - 2 other questions

Social Studies Department (Junior Year)

AP U.S. History

AP U.S. History

- ◉ Learn in-depth, detailed history
- ◉ Find out about my favorite presidents and other American crazies
- ◉ Feed your hunger for challenges
- ◉ Show off your reading speed and your quiz taking ability
- ◉ Learn lots of new words
- ◉ Hone your writing skills
- ◉ Summer School Prep Session available

Math Department (Junior and Senior Years)

AP Calculus AB

AP Calculus BC

AP Calculus AB and BC

◎ Course Content

- AB: Basics of limits, differentiation, integration and applications.
- BC: All AB content, advanced integration techniques, series and polynomial approximations, polar, parametric and vector differentiation.
- Students are expected to spend at least 1 hour per class meeting on homework.
- A graphing calculator is required.

AP Calculus AB and BC

⦿ The Exams:

- 3 hours and 15 minutes long
- 2 parts multiple choice one with calculator, one without
- 2 parts free response one with calculator, one without

⦿ Scoring:

- Passing grades are scores from 3 to 5
- An AB subscore grade is given to the BC exam

AP Calculus AB and BC

⦿ Calculator Restrictions:

- Only graphing calculators with non-QWERTY keyboard
- No stylus/pen-input devices or electronic writing pads are permitted

⦿ High Scoring Rates:

- Nationally 15-18% get 5's on the Exam
- Over the last 10 years some of our higher 5 scoring rates have been: 25%, 33%, 46% and in 2006 51%

Foreign Language Department (Junior Year)

AP Spanish Language

AP Spanish Language: Course Content

- Is intended for students who wish to develop proficiency and integrate their language skills, using authentic materials and sources.
- Students who enroll should already have a basic knowledge of languages and culture.
- AP Language exam evaluates the use of Spanish in writing and speaking in formal and informal form.

AP Spanish Language: Exam

- ◎ The exam consists of two sections:
 - Section I Multiple-choice
 - Listening – brief dialogues-narratives
 - Reading
 - Section II
 - Interpersonal writing
 - Formal writing integrating listening, reading and writing skills
 - Informal speaking
 - Formal speaking using listening, reading and speaking skills

Foreign Language Department (Senior Elective)

AP Spanish Literature

AP Spanish Literature: Course Content

- Is intended to be the equivalent of a third year college Introduction to Hispanic Literature course.
- It covers literature of Spain and Latin America.
- The goals are:
 - Understand lectures and participate in discussions
 - Read literary texts of all genres
 - Analyze critically the form and content of works/poetry.

AP Spanish Literature: Exam

⦿ Exam content:

• Section I

- Multiple choice, reading interpretative and analytical skills are develop. And comprehension is a must.

• Section II

• Three essays

- Poetry
- Thematic analysis/comparison and contrast
- Text analysis

AP Spanish Language and AP Spanish Literature Enrollment

- Both classes are Honor classes
- Requirements are:
 - GPA 2.8 or better.
 - To earn an A in Spanish the previous year.
 - To have a B or better in English.
 - To be recommended by a Foreign Language teacher.
 - Moderator will confirm GPA.
 - Parents' Permission.

Computer Science Department (Senior Year)

AP Computer Science A

AP Computer Science A: Teacher

- ◎ Mr. Stanley Shantar
 - Education
 - Case Western Reserve University (BS Electrical Engineering, 1971)
 - Azusa Pacific University (MA Education, 2007)
 - Industry
 - 30+ years in software development, engineering and management
 - California Teaching Credentials
 - Industrial Technology
 - Physics
 - 8 years in education at Bosco Tech

AP Computer Science A: Admissions

- ⦿ Open to Seniors in Computer Science or Electronics Technologies only (ACE Academy)
- ⦿ Class meets every day
 - No afterschool or weekend review sessions required
- ⦿ Requirements for admission
 - Grade of B or better in technology courses
 - Recommendations of technology teachers
 - Commitment to and interest in a university-level programming course

AP Computer Science A: Exam

- ⦿ As of this year, the College Board only offers AP Computer Science A
- ⦿ Programming Language: Java
- ⦿ The exam has two main sections
 - Section 1: Multiple Choice (50%)
 - 40 questions in 75 minutes
 - Section 2: Free Response (50%)
 - 4 programming problems in 105 minutes

Social Studies Department (Senior Year Elective)

AP Comparative Government

AP Comparative Government: Content and Exam

- A study of the fundamentals of government and politics that focuses on the political systems of six countries: United Kingdom, Russia, China, Iran, Nigeria and Mexico.
- AP Exam: 45 minutes for 55 multiple choice, 100 minutes for Free Response (5 short-answer, 1 conceptual analysis and 2 country context questions.)

AP Comparative Government: Enrollment

- Open enrollment
- Suggested prerequisites :
 - An interest in current events, politics, foreign policy and/or different cultures.
 - Grades of “B” or better in previous social studies classes.
 - Ready & able to do lots of reading - including textbooks, journal articles (*Foreign Affairs, Current History* et. al.), newspapers, magazines and internet sites.

AP Comparative Government: Teacher

◎ Mr. Robert Currie

- B.A., Political Science, Whittier College
- M.A., Political Science, Cal State LA
- Over 10 years experience teaching AP U.S. Government and Politics
- Three years teaching AP Comparative Government and Politics

English Department (Senior Year)

AP English Literature and Composition

AP English Literature and Composition: Teacher

- ◎ Ms. Elizabeth Allison
 - B.A. in English, Whittier College
 - 22 years in education

AP English Literature and Composition: Exam

- ◎ The AP Literature & Composition Exam...
 - gauges students' ability to analyze prose and poetry from a range of literary eras.
 - is 3 hours long.
 - consists of 55 multiple choice questions completed in 1 hour.
 - consists of 3 essays completed in 2 hours.

AP English Literature and Composition: Expectations

- ◎ Students enrolled in the class can expect to...
 - read 12 books.
 - read a variety of poems & essays.
 - write 9 processed essays.
 - write 15 timed essays.

Social Studies Department (Senior Year Elective)

AP European History

AP European History

- Hard class! Not just 400 years of one country
- Covers Europe 1450 to the present
- Chance to read primary sources *with help from teacher*
- Opportunity to study complex social, political and economic developments
- Your chance to get really smart!

Social Studies (Senior Year)

AP Microeconomics

AP Macroeconomics

AP Microeconomics & AP Macroeconomics: Exams

- The A.P. Macro and Microeconomics exams:
 - Timing:
 - 70 minute multiple choice section
 - 60 minute free response section
 - Scoring:
 - The multiple choice section accounts for $\frac{2}{3}$ of the exam score.
 - The free response section accounts for the remaining $\frac{1}{3}$ of the score.

AP Microeconomics & AP Macroeconomics: Course

- ⦿ Due to the analytical nature of the two courses and their corresponding A.P. exams, the course assessment occurs primarily through examinations.
- ⦿ There is some short response writing done on current topics in economics.
- ⦿ A.P. Macroeconomics is a first semester course with four mandatory preparatory sessions in the second semester.
- ⦿ A.P. Microeconomics is a second semester course that is often taught before school and/or during lunch.
- ⦿ A.P Macro and Microeconomics are currently treated as two distinct courses that students opt into separately.

Science Department (Senior Year)

AP Physics C: Mechanics

AP Physics C: Mechanics

Admissions

- ⦿ Open to Seniors
- ⦿ 2-semester course (no summer school)
- ⦿ Requirements for admission
 - Completion of Algebra II with a B or higher.
 - Concurrent enrollment in Pre-calculus or higher.
 - Completion of Chemistry or AP Chemistry with an B or higher.
 - Filling out an application including recommendations from the math and chemistry instructors.
 - Taking an admissions test which tests quantitative reasoning, formal logic and spatial relations.

AP Physics C: Mechanics vs. General Physics

Topic	General	AP
1-D Kinematics	√	√
Vectors	√	√
2-D Kinematics	√	√
Forces	√	√
Impulse and Momentum	√	√
Work, Energy and Power	√	√
Optics	√	
Rotational Motion		√
Harmonic Motion		√
Gravitation		√
Calculus		√

Even within the topics covered by both classes, AP Physics covers these topics in much more depth.

AP Physics C: Mechanics Exam

- ⦿ The exam has two main sections
 - Section 1: Multiple Choice (50%)
 - 35 questions in 45 minutes (77 sec./question)
 - Section 2: Free Response (50%)
 - 3 quantitative questions in 45 minutes
 - All physics problems are word problems

Social Studies Department (Senior Year)

AP U.S. Government and Politics

AP U.S. Government and Politics: Teacher

- ◎ Mr. Robert Godinez
 - B.A. in Political Science, Loyola Marymount University
 - California Teaching Credential
 - 11 years in education

AP U.S. Government and Politics: Exam

- ◎ The AP Government and Politics Exam...
 - measures the students' knowledge of general concepts and theories of government as well as their ability to analyze specific examples.
 - consists of 60 multiple choice questions to be completed in 45 minutes (50% of exam score).
 - consists of 4 free response questions to be completed in 100 minutes (50% of exam score).

AP U.S. Government and Politics: Course

- The AP Government and Politics course currently...
 - is a semester long course that meets in the spring.
 - fulfils the school requirements for graduation as well as the University of California A-G requirements.
 - includes a recommended summer prep course .

Social Studies (Senior Year Elective)

AP Human Geography

AP Human Geography

- ⦿ Warning: very different from freshman Geography
- ⦿ For those who
 - Love maps
 - Love big words and fancy phrases
 - Want to discover the patterns of human activity
 - Want an AP class that is less stressful than APUSH
 - Like small classes

Individual Instructors Will Be Available to Answer Questions

Calculus AB	Mr. Desousa
Calculus BC	Ms. Kingsbury
Chemistry	Mr. Tom
Comparative Government	Mr. Currie
Computer Science	Mr. Shantar
English Literature	Ms. Allison
European History	Mr. Williams
Human Geography	Mr. Williams

Macroeconomics	Mr. Wright
Microeconomics	Mr. Wright
Physics C: Mechanics	Mr. Tom
Spanish Language	Ms. Elenes
Spanish Literature	Ms. Elenes
U.S Government	Mr. Godinez
U.S. History	Mr. Williams