
CB Summer School, Summer Fun 2017 Course Catalog- High School Courses

1. Algebra I (10 Credits)

June-19-2017 - Jul-28-2017

8:00 a.m. - 1:00 p.m.

Prerequisite: Recommendation of current Christian Brothers Math instructor or invitation by Mathematics Department (for incoming ninth graders).

This is a standard Algebra I course. The topics include equations and inequalities, integers, absolute value, rational numbers, exponents, polynomials, factoring, linear equations and graphs, systems of equations, quadratic equations, radical expressions and equations, and rational expressions and equations. Fulfills U.C./C.S.U. "c" subject requirement for current high school students only. Incoming ninth graders may take this course, upon invitation, for placement purposes only; no U.C./C.S.U. credit will be awarded. All students enrolled in this course and their parents/guardians must sign a document acknowledging specific grade requirements.

2. Algebra IB (10 Credits)

June-19-2017 - Jul-28-2017

8:00 a.m. - 1:00 p.m.

Prerequisite: A "C" or better in Algebra IA and teacher recommendation. This course covers the second semester of a traditional Algebra I course in a full six-week session, giving students more time to learn the material.

3. Algebra IIA (10 Credits)

June-19-2017 - Jul-28-2017

8:00 a.m. - 1:00 p.m.

Prerequisite: A "C" or better in Algebra I and Geometry and teacher recommendation. This course covers the first semester of a traditional Algebra II course in a full six-week session, giving students more time to learn the material.

4. Algebra IIB (10 Credits)

June-19-2017 - Jul-28-2017

8:00 a.m. - 1:00 p.m.

Prerequisite: A 'C' or better in Algebra IIA and the recommendation of the current math instructor. This course covers the second semester of a traditional Algebra II course. Algebra IIA and IIB fulfill one year of the U.C./C.S.U "c" subject requirement.

5. Algebra II (10 Credits)

June-19-2017 - Jul-28-2017

8:00 a.m. - 1:00 p.m.

Prerequisite: A "B" or better in Algebra 1 and Geometry, or a "C+" in Accelerated Algebra 1 and a "B" in Geometry, and the recommendation of the current instructor.

This course reinforces and extends the concepts taught in Algebra I and Geometry. New topics introduced in the course include functions, complex numbers, rational exponents, logarithms, quadratic relations, and beginning probability. The work prepares students to continue their formal studies in Math Analysis, Statistics, or Computer Science and provides a solid basis for college disciplines which are not mathematics intensive for those who do not elect to take math in their senior year. Fulfills UC/CSU "c" subject requirement

6. American Government and Civics (5 Credits)

June-19-2017 - Jul-28-2017

8:00 a.m. - 1:00 p.m. Set A or B to be determined

This course enables students to understand how the political processes in the United States work. Through the study of American government and civics, the student is challenged to respond to a variety of questions: 1) What are the basic beliefs and ideals that underlie democracy in the United States? 2) How do our legal, governmental, and economic institutions affect public policy at the local, state, national, and international level? 3) How can the individual participate most effectively in the United States political system? In addition to becoming familiar with the structure and operation of the political system in the United States, the student analyzes some of the conflicts that confront our nation. In doing so, the student develops the ability to be an effective decision maker and a responsible citizen. Fulfills UC/CSU "a" subject requirement.

7. Athletic Conditioning for Freshman & Sophomore Athletes (No Credit)

June-19-2017 - Jul-28-2017

M-TH, TBD

This six-week camp will focus on athletic development. Athletes will learn speed training, how to be explosive, and how to develop quick feet. Along with athletic movement development, athletes will develop full body strength and power through weight training. Under the direction of the school's professional strength and conditioning coach, this program is designed to help CB athletes elevate their skill to the next level and compete with greater confidence. All entering freshman and sophomore athletes are strongly encouraged to sign up.

8. Biology (10 Credits)

June-19-2017 - Jul-28-2017

8:00 a.m. - 1:00 p.m.

Prerequisite: A grade of "C" or better in Advanced Physical Science course and successful completion of Algebra I. Biology is a lecture/laboratory-based course designed to introduce the major fields and concepts of life sciences. Concepts will include atomic theory, cellular organization, biochemistry, the cell, evolution, taxonomy, genetics, and microbiology. Fulfills the U.C./C.S.U. "d" subject requirement.

9. Chemistry (10 Credits)

June-19-2017 - Jul-28-2017

8:00 a.m. - 1:00 p.m.

Prerequisite: Successful completion of General Biology or Accelerated Biology with a “C” or better, a “B” grade or better in Algebra I, both semesters and recommendation of current science teacher or approval of department chair. This is a standard lecture and laboratory class for the average college-bound student who is interested in science. Careful organization, observation, and analysis are emphasized. Areas covered include atomic structure, mole concept and measurement, chemical bonds and reactions, and acid/base concepts. Fulfills U.C./C.S.U. “d” subject requirement.

10. Coed Team Sports & Activities (5 Credits)

June-19-2017 - Jul-28-2017

8:00 a.m. - 1:00 p.m. Set A or B to be determined

Elective course offered to sophomores, juniors and seniors. This course emphasizes advanced strategies, skills and competition in a variety of team sports and activities, including soccer, basketball, softball, team handball, dodgeball, badminton, volleyball, flag football, Frisbee, pickleball, etc. A major emphasis of the class will be on organized competition within a team/group structure, with strong consideration given to student interests. A fitness component incorporating the equipment in the Vesci Fitness Center will be included in weekly class activities.

11. Geometry (10 Credits)

June-19-2017 - Jul-28-2017

8:00 a.m. - 1:00 p.m.

Prerequisite: A "C" or better in Algebra I and teacher recommendation. The course requires a firm foundation in arithmetic and algebra as algebra is integrated throughout the course. This course will help the student to develop skills in logical reasoning and spatial relationships. Topics include area, angles, polygons, congruence, similarity, right triangle trigonometry, circles, proof (explaining), and three dimensional figures. The course is essential in the natural transition from concrete skills of Algebra I to the greater emphasis on abstract reasoning required of the student in Algebra II. Fulfills U.C./C.S.U. "c" subject requirement.

12. Health & Fitness (5 Credits)

June-19-2017 - Jul-28-2017

8:00 a.m. - 1:00 p.m. Set A or B to be determined

Required course for students who are enrolled in performing art as juniors and seniors (or recommendation by instructor for fine arts as sophomore). This course involves introduction of non-traditional sports and activities as well as the benefit of regular physical activity. Students will study the effects of cardiovascular conditioning and strength training. This course also includes a quarter of Health, which includes instruction and certification in CPR, AED and First Aid.

13. Mastering the Essay (5 Credits)

June-19-2017 - Jul-28-2017

8:00 a.m. - 1:00 p.m. Set A or B to be determined

Required course for juniors at CB This course enables students to learn to master the paragraph and essay. Emphasis is on developing skills which holistically meet the criteria for successful writing through effective development of thesis statements and topic sentences, evidence selection, organizational patterns, language use, sentence structure, grammar and mechanics.

14. Mystery of Suffering & Death (5 Credits)

June-19-2017 - Jul-28-2017

8:00 a.m. - 1:00 p.m. Set A or B to be determined

Open to seniors.

This course will define “suffering” while comparing various theological and philosophical interpretations of its meaning. The course will compare various cultural approaches to death, burial rituals, and afterlife concepts. Catholic eschatology will be examined, as will the concept of evil and the salvific death and resurrection of Jesus. The course will also evaluate the Catholic moral position on end-of life issues and engage students in the health care debate.

15. United States History (10 Credits)

June-19-2017 - Jul-28-2017

8:00 a.m. - 1:00 p.m.

This course covers the ten themes recommended by the National Council for Social Studies as the basis for all Social Studies Curriculum Standards. May be taken for grade remediation. Fulfills UC/CSU "a" subject requirement.

16. World History II (10 Credits)

June-19-2017 - Jul-28-2017

8:00 a.m. - 1:00 p.m.

This course continues with the history of humankind from the mid-16th century AD through the early 21st century. It deals with concepts such as law, rules, rights, revolution, and political philosophy. The students study the advent of technology as they explore the far-reaching implications of the Industrial Revolution. Students also examine the geography of the world, economy, and world politics as they study the interactions of Europe, Latin America, Middle East, Africa, Russia, China, and Japan. Fulfills UC/CSU "a" subject requirement.

17. Advanced Physical Science Review (one semester, 5 credits)

June-19-2017 - Jul-28-2017

8:00 a.m. - 1:00 p.m. Set A or B to be determined

Prerequisite: Deficient five credits in Advanced Physical Science Advanced Physical Science creates a solid foundation and provides the necessary college-oriented laboratory skills and techniques for students to continue in biology, chemistry, and physics. APS integrates advanced lab techniques, computational skills and critical analysis to approach problem-solving through inquiry-based learning. May be taken for grade remediation. Fulfills UC/CSU "g" elective requirement.

18. American Literature Review (5 Credits)

June-19-2017 - Jul-28-2017

8:00 a.m. - 1:00 p.m. Set A or B to be determined

Prerequisite: Deficient five credits in American Literature The focus of this course is an exploration of American literature. Through reading, discussion, and writing, the student explores both the thought and the expression of American writers. The emphasis is on learning to read diverse literary styles and on in-depth analysis and interpretation. Within the framework of the literature program, this course also addresses various writing, speaking, and language arts skills, chief among those being writing an essay, creative writing, group discussion, and vocabulary development.

19. Freshman Literature & Composition Review (5 Credits)

June-19-2017 - Jul-28-2017

8:00 a.m. - 1:00 p.m. Set A or B to be determined

Prerequisite: Deficient five credits in Freshman Composition and Literature. The goals of the regular composition and literature courses taught throughout the school year are reinforced through an intensive curriculum that includes attention to grammar, sentence construction, elements of composition and a further understanding and appreciation of a variety of literary genres. This course is required of those students identified as in need of additional instruction prior to being allowed to continue within the college preparatory curriculum of the department.

20. Religious Studies Review (5 Credits)

June-19-2017 - Jul-28-2017

8:00 a.m. - 1:00 p.m. Set A or B to be determined

Religious Studies may be taken for review or as an extra elective – it is not intended to replace a religious studies course taken during the regular school.

21. Sophomore Literature & Composition (5 Credits)

June-19-2017 - Jul-28-2017

8:00 a.m. - 1:00 p.m. Set A or B to be determined

Prerequisite: Deficient five credits in Sophomore Composition and Literature. The goals of the regular composition and literature courses taught throughout the school year are reinforced through an intensive curriculum that includes attention to grammar, sentence construction, elements of composition and a further understanding and appreciation of a variety of literary genres. This course is required of those students identified as in need of additional instruction prior to being allowed to continue within the college preparatory curriculum of the department.

22. Spanish I or II Review (One semester, 5 Credits)

June-19-2017 - Jul-28-2017

8:00 a.m. - 1:00 p.m. Set A or B to be determined

Prerequisite: Deficient 5 credits in Spanish I or II An introductory course in the Spanish language with emphasis on the development of listening, speaking, reading, writing, and general knowledge of Hispanic culture and civilization.

23. United States History Review (5 Credits)

June-19-2017 - Jul-28-2017

8:00 a.m. - 1:00 p.m. Set A or B to be determined

Prerequisite: Deficient five credits in U.S. History U.S. History Review is a summer session class which utilizes the ten themes recommended by the National Council for Social Studies as the basis for all Social Studies Curriculum standards. World History Review is a summer session class which utilizes the ten themes recommended by the National Council for the Social Studies as the basis for all Social Studies curriculum standards. Students will study various subjects/people/eras in the area of U.S. History.

24. World History I or II Review (One semester, 5 Credits)

June-19-2017 - Jul-28-2017

8:00 a.m. - 1:00 p.m. Set A or B to be determined

Prerequisite: Deficient five credits in World History I or II World History Review is a summer session class which utilizes the ten themes recommended by the National Council for the Social Studies as the basis for all Social Studies curriculum standards. Students will study various subjects/people/eras in the area of world history and geography.