

**2012-13 Cathedral Catholic High School Curriculum Guide  
Academic Policies**

*Cathedral Catholic High School reserves the right to modify all courses and policies listed in the Curriculum Guide and to withdraw courses for which too few students register.*

**Scheduling Process**

**Step 1:** Counselors will meet with students in *February and March* to help determine course selections and discuss online registration procedures.

**Step 2:** Teachers will take time during class to explain the next level of courses available to the students in their departments, including prerequisites.

**Step 3:** Students will bring the **registration forms home for parent signatures before completing the online registration process.**

**Students, who do not meet prerequisites will not be scheduled into the AP/Honors or advanced course without an academic contract signed by their parent(s). *Contract must be obtained from the counselor.***

**Graduation Requirements**

Cathedral Catholic High School requires students to earn 240 units for graduation. Five units are awarded for completion of a semester course:

Religious Studies	40 units
English	40 units
Language	20 units
Mathematics	30 units
Science	30 units
Social Science	30 units
Visual & Performing Arts	10 units
Electives	15 units
*Physical Education / Health	20 units
Speech Communication	5 units
**Christian Service Hours	60 hours

**Graduation requirements will not be waived. \*\*The Handbook identifies Christian Service details for each class.**

\*Up to 15 P.E. units may be earned through participation on a CCHS athletic team or online PE offerings in this Guide. The Health requirement may be fulfilled by the designated CCHS online PE course, described in the Guide.

***“The end of all education should surely be to serve others.” – Cesar Chavez***

\*\*The CCHS Christian Service process is a vital part of our school identity. In accordance with our Mission, Cathedral Catholic High School requires a graduate to complete a total of 60 Christian Service hours. As a faith community, our goal is to integrate Christian Service experiences with reflection and evaluation in order to appreciate the Gospel Mandate to serve one another. Building relationships is an essential part of Christian Service. Seniors participate in Theological Reflection in order to comprehend the impact of their Christian Service Experiences. All service hours can be documented by the student on the CCHS website and will be approved by the Director of Christian Service once a supervisory form has been turned in.

## Course Load

Students are required to take six (6) traditional academic classes each semester. Seniors are required to take a minimum of five (5) academic courses each semester. Courses may be selected from the following listings: English, Language, Mathematics, Religious Studies, Science, Social Studies, Visual and Performing Arts and P.E. Office Assistant is not acceptable as a solid academic course. **An online course may not replace a traditional course in the required six or five academic course load. An online course may be taken in addition to the minimum required course load at an additional fee per course.**

### CLASS CHANGES / ADD-DROP

The first **three** weeks of the first semester are available for **limited course changes** due to academic level misplacement. Teacher changes are NOT permitted. The computer schedules classes during the registration process using student request enrollment numbers. Student course request numbers also determine the school's book order that is placed in April. To help students make informed course selections, students receive advice from their teachers and counselors prior to the registration deadline. Students have full access to course prerequisite information in the *Curriculum Guide*. Therefore, CCHS does NOT accommodate open add-drops.

Students are permitted to change classes during the **first three weeks of the first semester** if misplacement is determined. The most common reasons for a change include placement in the wrong class initially or additional information came to the attention of the teacher, department chair, or counselor that affects learning success. Administration reviews the course change request in consultation with the teacher, counselor and department chair, must grant approval for a course change.

### WITHDRAWAL FROM A COURSE AFTER THE START OF THE SEMESTER

If a student drops a course within the first **three** weeks of the first semester, a straight transfer of grades to date will accompany the student to the new course, including level changes. A *WF* will appear on the report card and be calculated into the GPA for any course drop occurring after the first three weeks of the first semester.

Dropping a spring semester class may occur under very unusual circumstances, with the approval of the counselor, teacher, and Administration. Approved second semester course changes must be made within the first three weeks of the second semester, following the same criteria for grade transfer and *WF* grades as in the first semester. CCHS discourages senior drops at the semester. Seniors are expected to accept the responsibility of completing their course selections, rather than reporting to their colleges that they have lightened their load. In many cases, seniors have already been accepted to colleges. In all cases, seniors changing their courses in the second semester must report these changes to all colleges applied.

### ADVANCED PLACEMENT & HONORS PROGRAM

The AP/Honors program is for students with exceptional ability, commitment, and interest in the subject. Students may choose to take one or more if qualified. **All students enrolled in an AP course are required to take the AP exam in May to earn the weighted grade for the course.**

Be sure to check the prerequisites for each AP/Honors course in the Curriculum Guide and obtain department approval when necessary before selecting the course.

*\*Students seeking to enroll in Advanced, Honors, or AP courses must meet the prerequisites stated in this Curriculum Guide and follow the prescribed approval and procedures set by each department. Students who do not meet prerequisites or follow the prescribed contracts, approval and procedures will not be enrolled in the Honors or AP course without an Academic Contract signed by their parent(s)*

### PASSING GRADES

**The University of California and California State Universities do NOT accept a "D" grade for any of their required courses. Colleges and Universities recognize completion of a required high school course with a grade of "C" or better.**

*A spring semester grade of "C" or higher in a math or language course will validate a fall semester grade of "D", therefore nullifying the need to repeat the semester. Students are encouraged, **not required**, to repeat all other courses in which a "D" grade was earned to improve college admissions options. CCHS summer school, online courses and community colleges are available for repeats. **Students are***

**required complete an academic plan with the counselor for all repeats to be recorded on the official transcript correctly.**

**Students must repeat all failed semesters in which a grade of “F” was earned in a required course to earn credits for graduation.** The repeated semester must take place in the summer immediately following the end of the academic year in which the grade of “F” was earned. Repeat credits will appear on the CCHS transcript **only** when counselor / administrator approval is filed by the student prior to enrollment. Please see the above paragraph for explanation of proper procedure with counselor approval. A Cathedral Catholic approved online course for credit recovery will appear on the official transcript.

**Seniors failing a required course in either semester must file an academic plan with their counselor to earn a diploma. See page 2 for the credits needed for graduation.**

## **Transcripts**

**All transcript requests must be made in writing.** You can find our online request form at our website [www.cathedralcatholic.org](http://www.cathedralcatholic.org) under Academics listed as Transcript Requests. CCHS cannot issue an official transcript for classes taken at other schools. Transfer students are required to submit official transcripts from previous schools to the Registrar for CCHS graduation credit inclusion. Students must contact former schools for their official transcripts.

## **Community College Credit**

Students wishing to take a community college course in a field or level not offered by CCHS must obtain the Community College Approval Form from the college website and obtain written permission from the Principal or Curriculum Director prior to enrollment. Community College courses will be given credit equivalent to college prep courses at CCHS. Weighted credit will be not granted.

## **Transfer Student Placement**

We cannot guarantee placement in Honors/AP courses to students transferring in from other schools. Occasionally, CCHS courses and prerequisites do not match those of other schools; therefore, placement is made by the counselor or department based on qualifications and available openings. When a course is closed, placement is made in the next available level.

## **Course Level Codes**

- AP** Advanced Placement courses are college level. Students taking these courses normally receive college credit if they successfully pass the AP exam. Check with college or university policy for passing grade. (A=5.0; B=4.0; C=3.0; D=1.0 quality points)
- H** Honors courses demand that students do work of superior quality.  
(A=5.0; B=4.0; C=3.0; D=1.0 quality points)
- A** Advanced courses are for students who do above-average work in a course with accelerated content but no weighted GPA.  
(A=4.0; B=3.0; C=2.0; D=1.0 quality points)
- B** Courses are at the college prep level but at a slower pace.  
(A=4.0; B=3.0; C=2.0; D=1.0 quality points)

# CALIFORNIA PUBLIC COLLEGE ENTRANCE REQUIREMENTS

## UC/CSU SUBJECT REQUIREMENTS

- |    |   |        |
|----|---|--------|
| a. | HISTORY (U.S. History, Amer. Govt.)   | 2 yrs  |
| b. | ENGLISH   | 4 yrs. |
| c. | MATH (Alg. 1A, Geom., Alg. 2)   | 3 yrs. |
| d. | SCIENCE (Lab Sci. from 2 of 3 core disciplines: Biology, Chemistry, Physics)  | 2 yrs. |
| e. | LANGUAGE OTHER THAN ENGLISH   | 2 yrs. |
| f. | VISUAL & PERFORMING ARTS (Art, Music, Drama)  | 1 yr.  |
| g. | ELECTIVES (chosen from the areas of History, English, Ad. Math, Lab Science, Social Science, Fine Arts, Language other than English, Religious Studies) | 1 yr.  |

All required courses must be completed with a grade of “C” or higher to be admitted to a UC/USU campus.

Both the UC and CSU systems assign extra points for up to four units (eight semester grades of AP or Honors courses):

A	=	5 points
B	=	4 points
C	=	3 points
D	=	1 point (cannot be weighted)

**\*Note: UC policy states that juniors and seniors receive weighted grade points on the 5-point scale when calculating G.P.A. for UC approved Honors courses taken in grades 11 and 12. Sophomores will receive credit for not more than two of these courses completed in grade 10. Students should consult with a counselor before making final course selections regarding UC policy.**

**Electives listed in the Curriculum Guide that DO NOT meet UC/CSU admissions requirements will be noted.**

### **COMMUNITY COLLEGES**

California Community Colleges require a student to be a high school graduate or 18 years of age to enroll full-time. No specific courses are required for admission.

### **OTHER PRIVATE COLLEGES AND UNIVERSITIES**

Each school may set subject requirements that are usually met by the graduation requirements of CCHS. We advise you to check with each institution’s current admissions office for specific requirements.

**PLEASE NOTE: All courses at Cathedral Catholic High School are UC approved unless otherwise specified.**

## **CCHS COURSES THAT MEET UC “a-g” ADMISSIONS REQUIREMENTS**

### **“a” HISTORY / SOCIAL SCIENCE: 2 years**

American Government	AP American Govt.
World History	AP U.S. History
U.S. History	AP World History

### **“b” ENGLISH: 4 years**

Advanced British Literature	English 1, 1A
English 2, 2 (H)	English 3
English 3 (H)	English 4
AP Literature & Composition	AP Language & Composition

### **“c” MATHEMATICS:**

#### **3 yrs. required/4 yrs. recommended**

Beginning Algebra	Algebra 2
Algebra 1A	AP Calculus AB
Algebra 2/Trigonometry	AP Calculus BC
Geometry, Geometry A, Geometry B	AP Statistics
Statistics	
Pre-Calculus 1 (H)	
Pre-Calculus	

### **“d” LAB SCIENCE:**

#### **2 yrs. required/3 yrs. recommended**

Anatomy & Physiology	Anatomy & Phy. (H)
Biology	AP Biology
Chemistry	AP Chemistry
AP Environmental Science	Oceanography
Physics	AP Physics B

### **“e” LANGUAGE OTHER THAN ENGLISH:**

#### **2 yrs. required/3yrs. recommended**

ASL 1, 2, 3	Spanish 1, 2, 3
French 1, 2, 3, AP French	AP Spanish
Latin 1, 2, 3, AP Latin	

### **“f” VISUAL & PERFORMING ARTS: 1 year**

AP Art History	Beginning Art (Art 1-2)
Band 1-2	Ceramics 1-2
Choral Music	Dramatic Arts 1-2
Multimedia Authoring	Photographic Arts
AP Studio Art	Advanced Drama
Drama Technical Theater	Television Production

### **“g” ELECTIVES: 1 year**

Art 3 (Sem)	Art 4 (Sem)
AP Economics (Sem)	Economics (Sem)
Psychology (Sem)	Intro. to Philosophy (Sem)
Speech (Sem)	Scripture (Yr.)
Creative Writing (Sem)	Sociology (Sem)
Journalism (Yr)	Asian Studies H (Local H weight)
Sports Medicine 1 & 2	

**Students planning to attend a UC campus should work for a 3.5 or higher GPA. Some technical majors require 3.8 or higher. Only the above courses labeled AP or H will be assigned extra honors credit by UC. See \*Note on page 3, under Course Level Codes.**

# Academics

## *Introduction*

Our rigorous program of education is offered in a nurturing community based on the ministry of Jesus Christ and the teachings of the Catholic Church. This education must be student centered, recognizing that each student is made in the image and likeness of God and shaped by differences in interest, ability, family background, economic status, and ethnic heritage. Our goal is to develop a community of learners dedicated to generative, lifelong learning that teaches students to assume responsibility for their own educational and spiritual growth. We pursue this goal by partnering with parents to facilitate this educational process and by modeling intellectual and Christian behavior.

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# ENGLISH LANGUAGE ARTS

## *Vision Statement*

The four-year English Language Arts program challenges students to read critically and write convincingly in a 21st century environment. The collaborative, independent, and computer-mediated learning experiences in this program will produce future leaders in our global society who are able to effectively communicate their ideas and appropriately respond to the ideas of others in a variety of contexts.

## **Course Sequence**

<b>GRADE</b>	<b>COLLEGE PREPARATORY</b>	<b>HONORS ADVANCED PLACEMENT</b>
9	English 1	English 1 Advanced
10	English 2	English 2 Honors
11	English 3	English 3 Honors / AP Language & Comp.
12	English 4 Advanced British Literature	AP English Literature & Comp.

***All English courses require summer reading and assignment before first class meeting.***

### **English 1 (Course #1211-1212)**

**Grade 9**

Students read literary pieces from at least six genres, while building solid vocabulary and grammar skills and academic research skills. Students practice creative and expository writing focusing on the paragraph first semester and multi-paragraph thesis-driven essay second semester

### **English 1 Advanced (Course #1213-1214)**

**Grade 9**

***Prerequisites: Placement determined by the reading comprehension and English scores on the EXPLORE exam.***

Students placed in this accelerated ninth grade course must possess strong skills, desire and interest in advanced reading and writing. Students will experience greater rigor, depth and intellectual challenge, in reading volume and comprehension, writing expectations and homework load.

### **English 2 (Course #1221-1222)**

**Grade 10**

Students continue their study of literary devices and close reading through study of all genres of world literature. They focus on writing thesis-driven literary analysis essays and applying their academic research skills to produce a thesis based research paper using MLA format. They continue their study of vocabulary and grammar to prepare for standardized tests and effective written and oral communication.

**English 2 Honors (Course #1223-1224)****Grade 10**

***Prerequisites for English 2 Honors: A grade of “B” or higher both semesters in English 1A or an “A” in English 1 for both semesters. Note: This course will be given honors credit locally, but is not considered an honors course by the University of California.***

Honors students are challenged at advanced reading comprehension and writing levels in this rigorous, accelerated paced course. Students study world literature with a focus on literary movements, universal themes and rhetorical devices. Students prepare for entry in the AP Language and Composition course or English 3 Honors.

**English 3 (Course #1231-1232)****Grade 11**

Students examine works of significant American authors, genres and movements. Students focus on writing using journals, précis, creative pieces and thesis-driven literary analysis essays. They also produce an MLA documented final product that reflects their understanding of academic research and analytic writing. Students enhance their study of grammar and vocabulary to prepare for the PSAT, SAT and ACT tests.

**English 3 Honors (Course #1233-1234)****Grade 11**

***Prerequisites for English 3 Honors: A grade of grade “B” or higher in English 2 Honors both semesters or an “A” both semesters in English 2.***

Students continue to build skills in literary analysis and interpretation by reading a wide variety of works (with a focus on poetry, novels, plays, short stories and essays) by significant American authors and exploring literary movements from colonial times through post-modernism. Students focus on writing thesis-driven literary analysis essays using AP Literature prompts and studying vocabulary and grammar to prepare for the PSAT and SAT tests. They produce a narrative personal essay in preparation for college application essay prompts. To practice academic research skills, students read literary criticism to produce MLA documented position papers in response to critical reviews.

**AP Language and Composition (Course #1263-1264)****Grade 11**

***Prerequisites for AP Lang & Composition: A grade of “A” both semesters in English 2 or a “B” both semesters in English 2H.***

In accordance with the College Board’s AP description, this year long course enables “students to read complex texts with understanding and to write prose of sufficient richness and complexity to communicate effectively with mature readers.” This course explores the complexities of writing in America with the goal of making students critical thinkers and readers of 'culture' in the broadest sense. Although the course includes a study of both the poetry and prose fiction of traditional English Literature courses, the course emphasizes readings in oratory, visual argument (including advertising), and non-fiction prose literature. As a composition course, this offering will require frequent expository, analytical, argumentative, and personal writing through which students will learn to express themselves convincingly in a variety of contexts. ***Students are required to register for and take the AP Exam in May. A \$115 fee per exam will be collected during exam registration.***

**English 4 (Course #1241-1242)****Grade 12**

Students integrate reading and critical thinking and extensive writing through examination of fiction and non-fiction from major British writers. The focus of first semester is the writing process as well as conventions of grammar and style appropriate to college level writing. During second semester, students apply these skills within the framework of their study of British literature.

**Advanced British Literature (Course #1243-1244)****Grade 12**

***Prerequisites for Advanced British Literature: A grade of “B” in English 3 both semesters, or a “C” in English 3 Honors (second semester) or AP English Language/Composition***

Advanced British Literature is a yearlong course offering the advanced student a comprehensive survey of British literature, from the Anglo-Saxon period through the twentieth century. Required texts include both a college level anthology and a separate selection of longer works. Students exercise critical analysis of literature in reading, writing, and discussion. The writing component anticipates college level expectations, in format, style, and support of an arguable thesis, using both primary and secondary sources. Students practice academic research skills that lead to a more proficient level of information literacy.

**AP English Literature and Composition (Course #1261-1262)****Grade 12**

***Prerequisites for AP English: A grade of “B” or higher both semesters of English 3 Honors, or AP English Language/Composition***

***Completion of summer assignment required before first class meeting.***

This course is designed to prepare students for the AP Literature & Composition exam. Using college level texts, students read a wide variety of literary pieces and literary criticism, with major focus on British literature and minor focus on global literature. Students write literary criticism essays based on critical reading of multiple sources and academic research of an author and work of their choice. ***Students are required to register for and take the AP Exam in May. A \$115 fee per exam will be collected during exam registration.***

**Speech 2 Debate (Course #1229)****Grade 10-12**

***Local elective, UC Pending***

***Prerequisites for Speech 2/Debate: A grade of “C” or higher in all previous English classes and speech class.***

This course builds on the skills practiced in Speech Communications class and introduces debate techniques, basic terminology and techniques of formal argumentation. Students practice academic research skills, organizational strategies, critical listening and thinking and the ability to present ideas on a controversial issue with confidence.

**Journalism (Course #1247-1248)****Grade 9-12**

***Prerequisites: A grade of “B” or higher in all previous English classes. Incoming freshmen are required to petition the Journalism advisor for admittance and submit a writing sample.***

Students learn to write and report news, feature, sports and opinion stories. They receive necessary instruction in photography, layout, polling and advertising. Students engage in real-life activities involving interviewing, publishing, composing and independent inquiry along with invaluable direct feedback from peers and faculty. Visual and Performing Arts credit applicable to graduation is offered for writers and editors of El Cid, Cathedral Catholic High School's student newspaper.

**Creative Writing (Course #1249)****Grade 10-12**

***Prerequisites for Creative Writing: A grade of “C” or higher in all previous English courses.***

Students explore the craft of creative writing, including poetry, short stories, memoir and drama in this elective course. The focus will be on helping students develop a unique and personal voice within their writing.

**Yearbook Production (Course #1275-1276)****Grade 9-12*****Prerequisites for Yearbook: A grade of "C" or higher in all previous English classes.***

Students are responsible for the production of the Presidio, Cathedral Catholic High School's yearbook. Students learn basic techniques of page layout, copy writing, editing, proofreading, photo selection and desktop publishing. The class meets Monday through Thursday from 2:15 - 3:30 p.m. from August through March in order to meet the required publishing company deadlines. Students will be required to put in additional time at lunch and occasionally on Saturdays. During spring quarter (April-June), students will meet two days a week after school to work on cross training, preparing for leadership roles in the coming year, recruiting new members and planning for yearbook camp in the summer.

## LANGUAGES

### *Vision Statement*

Language courses prepare graduates to be responsible and respectful citizens of our 21<sup>st</sup> century global society by engaging in real-world communication and cultural understanding while developing skills in the target language.

### **Spanish 1 (Course #1311-1312)**

**Grade 9-12**

This course provides an introduction to the language and cultures of Spain and Latin America. Students develop basic listening, speaking, and reading and writing skills necessary to communicate about self, family and daily life, as well as basic survival needs. Students explore connections and cultural aspects of the Spanish-speaking world.

### **Spanish 2 (Course #1313-1314)**

**Grade 9-12**

***Prerequisites: Spanish 1 with a grade of "C"***

This course is a continuation of Spanish I. Students continue to develop listening, speaking, reading, and writing skills necessary to communicate about self, family, and daily life, as well as on abstract concepts such as feelings and emotions. Students explore cultural aspects of the Spanish-speaking world. Students continue to explore connections and cultural aspects of the Spanish-speaking world.

### **Spanish 3 (Course #1315-1316)**

**Grade 9-12**

***Prerequisites: Spanish 2 with a grade of "C".***

Students gain Global Perspective by learning cultural, historical, sociological and literary insight into the various peoples who speak Spanish throughout the world. The students learn practices and perspectives within a culture. Students communicate; make connections and comparisons in the language.

### **AP Spanish (Course #1361-1362)**

**Grade 11-12**

***Prerequisites: Spanish 3 with a grade of "B".***

AP Spanish Language is intended for students wishing to develop proficiency and integrate their language skills using authentic materials and sources. AP students demonstrate their proficiency across three communication modes (interpersonal, interpretive, and presentational). AP Spanish emphasizes 21<sup>st</sup> Century Standards for Foreign Language including Communication, Cultures, Connections, Comparisons, and Communities. The course is meant to be comparable to a fifth or sixth semester college course that focuses on speaking and writing in the target language at an advanced level. ***Students are required to register for and take the AP Exam in May. A \$115 fee per exam will be collected during exam registration.***

### **French 1 (Course #1321-1322)**

**Grade 9-12**

This course provides an introduction to the language and cultures of French countries. Students develop basic listening, speaking, reading and writing skills necessary to communicate

about self, family and daily life, as well as basic survival needs. Students explore connections and cultural aspects of the French -speaking world.

**French 2 (Course #1323-1324)**

**Grade 9-12**

*Prerequisites: French I with a grade of "C".*

This course is a continuation of French I. Students continue to develop listening, speaking, reading, and writing skills necessary to communicate about self, family, and daily life, as well as on abstract concepts such as feelings and emotions. Students also explore cultural aspects of the French - speaking world. Students continue to explore connections and cultural aspects of the French-speaking world.

**French 3 (Course #1325-1326)**

**Grade 9-12**

*Prerequisite: French 2 with a grade of "C"*

Students gain Global Perspective by learning cultural, historical, sociological and literary insight into the various peoples who speak French throughout the world. The students learn practices and perspectives within a culture. Students communicate; make connections and comparisons in the language.

**AP French (Course #1329-1330)**

**Grade 11-12**

*Prerequisite: French 3 with a grade of "B".*

AP French Language and Culture strives to promote fluency and accuracy in language use and is therefore taught in the target language. AP French engages students in an exploration of culture in both historical and contemporary contexts. Students increase their awareness and appreciation of French books, music, laws, institutions and perspectives that underlie both practices and products. The course is meant to be comparable to a fifth or sixth semester college course. ***Students are required to register for and take the AP Exam in May. A \$115 fee per exam will be collected during exam registration.***

**Latin 1 (Course #1341-1342)**

**Grade 9-12**

Students explore the basic grammatical structures of the Latin language through reading, grammatical exercises and memorization. Roman culture and English root derivations are included.

**Latin 2 (Course #1343-1344)**

**Grade 9-12**

*Prerequisite: Latin I with a grade of "C".*

Students continue the exploration of more complicated Latin grammatical constructions through readings, grammatical exercises and memorization. Roman culture and English root derivations are covered extensively in this course.

**Latin 3 (Course #1345-1346)**

**Grade 10-12**

*Prerequisite: Latin 2 with a grade of "C".*

Students begin reading ancient classical authors in the original Latin. The class studies the finer points of Latin grammar and continues learning about English root derivations and Roman culture.

**AP Latin (Course #1349-1350)**

**Grade 11-12**

*Prerequisite: Latin 3 with a grade of "B".*

AP Latin is intended for students wishing to improve their translation skills to parallel a college course. Students are expected to translate accurately from Latin to English, using the poetry they are reading, and to demonstrate a grasp of grammatical structures and vocabulary. AP

Latin advances the appreciation of literature and requires an understanding of the literary techniques of Latin writers and of poetic meters when appropriate. AP Latin Vergil includes the study of the cultural, social, and political context of literature. ***Students are required to register for and take the AP Exam in May. A \$115 fee per exam will be collected during exam registration.***

**American Sign Language 1 (Course #1351-1352)**

**Grade 9-12**

Students are introduced to the basic knowledge of American Sign Language (ASL) and the Deaf culture. Students develop basic skills in vocabulary and grammar to meet communication needs. Emphasis is placed on acquisition of both comprehension and expressive skills via signing in front of their class, with a partner, in a small group and in large group participation.

**American Sign Language 2 (Course #1353-1354)**

**Grade 10-12**

***Prerequisite: American Sign Language 1 with a grade of "C" or better.***

ASL II students continue to develop vocabulary and grammar skills in order to meet communication needs. Deaf culture and community are further emphasized. Participation in real world communication is encouraged through opportunities such as ASL club and Deaf community events. Students sign in front of their peers, as well as one-on-one with their teacher.

**American Sign Language 3 (Course 1355-1356)**

**Grade 11-12**

***Prerequisite: American Sign Language 2 with a grade of "C" or better.***

ASL III students continue to improve their reception and production skills. This advanced level emphasizes Deaf culture, grammar, vocabulary and the ability to express abstract ideas and concepts. Students are required to sign narratives, prayers, songs and poetry. Students must be prepared to sign in front of the class as well as one-on-one with other classmates and the teacher.

**Aventa Learning ONLINE Mandarin Chinese 1 (Course #3300-3301)**

**Grade 9-12**

***\*An additional fee of \$500 will be charged for this course.***

***Refer to complete course description on page 36 of this Guide.***

Course requires an ***additional fee and registration. Access to the Internet at home*** is required. Students are expected to learn at their own pace, complete required assessments on campus under the supervision of a CCHS online instructor, and complete the course by an agreed upon date with instructor's approval.

Mandarin Chinese 1 is the first course in a two-year program of study offered online at CCHS. Mandarin Chinese 2 will be offered in 2013-14. This language program fulfills the CCHS graduation requirement, but does not offer the third year of study recommended by UC and some colleges. Both Mandarin Chinese 1 and 2 are UC approved courses.

# MATHEMATICS

## *Vision Statement*

The four-year Mathematics program prepares students for success in college level math and science. We envision our graduates will successfully engage in their choice of technological and problem solving options with the skills necessary to excel as 21<sup>st</sup> century global citizens.

## **Course Sequence**

<b>Grade 9</b>	<b>Grade 10</b>	<b>Grade 11</b>	<b>Grade 12</b>
Beginning Algebra	Algebra 1A	Geometry Geometry B	Algebra 2
Algebra 1A	Geometry Geometry B	Algebra 2	Pre-Calculus AP Stats Statistics
Geometry Advanced	Algebra 2/Trig (H)	Pre-Calculus 1 (H)	AP Calc. BC AP Calc. AB AP Statistics

### **Beginning Algebra (Course #1409-1410)**

**Grade 9**

*Prerequisites: In-coming grade 9 EXPLORE exam score and previous coursework record.*

In this first course of a two-year beginning algebra program, students reinforce the basic skills with the Real Number System, learn the language of Algebra, solve and graph linear equations and inequalities, solve systems of equations, factor and solve quadratics, and develop algebraic problem solving skills. Followed by Algebra 1A, a comprehensive first year algebra program is completed for students needing a slower pace.

### **Algebra 1A (Course #1413-1414)**

**Grade 9-10**

*Prerequisites: In-coming grade 9 EXPLORE exam score and previous coursework record or grade 10 students who have completed Beginning Algebra.*

Algebra 1A is a fast-paced first year high school algebra course that begins with solving and graphing linear equations and inequalities. Students must already have an understanding of the language of algebra and strong basic skills in operations with the Real Number System to continue their studies of polynomials and their factors, quadratic equations, rational expressions, radicals, and rational functions. Students utilize technology for linear and quadratic modeling and receive an introduction to probability, data analysis and statistics.

### **Geometry Advanced (Course #1415-1416)**

**Grade 9**

*Prerequisite: EXPLORE score and previous record of coursework.*

This accelerated course in Geometry is designed for students who have proven success in a rigorous, comprehensive algebra curriculum. In addition to the Geometry content of course (1423-1424), students learn formal proof writing and transformational geometry that will be

utilized in higher-level mathematics. This course introduces students to honors level pace, rigor and independence. **Limited enrollment. Prepares students for Algebra 2/Trig Honors after successful completion of this course.**

**Geometry B (Course #1421-1422)**

**Grade 10-11**

**Prerequisite: Algebra IA qualifying assessments.**

This slower paced course fulfills the graduation requirement for geometry, but due to the basic emphasis on proofs, will not prepare students for entry into most higher level mathematics courses in high school or college.

**Geometry (Course #1423-1424)**

**Grade 10-11**

**Prerequisite: Completion of Algebra 1A.**

Designed for students with a solid foundation in Algebra I, students learn deductive proof writing, properties of angles, perpendicular and parallel lines, congruent triangles, similar polygons, circles, right triangles, areas and volumes of solids, coordinate geometry and constructions. **Fulfills the college requirement in geometry.**

**Algebra 2/Trig (H) (Course #1425-1426)**

**Grade 10**

**Prerequisite: Geometry Advanced with a grade of "C". Note: This course will be given honors credit locally, but is not considered an honors course by the University of California.**

This is an accelerated second year course for students that introduces trigonometry. Students learn the real number system, equation solving, linear relations and functions, open sentences in 2 and 3 variables, polynomials, irrational numbers, the complex number system, logarithms and introductory trigonometry. This course prepares students for Pre-Calculus Honors.

**Pre-Calculus Honors (Course #1435-1436)**

**Grade 10-11**

**Prerequisite: Algebra 2/Trig (H) with a grade of "C".**

This is the third course in the accelerated/honors math program for students who complete the study of algebra and trigonometry. Students learn polynomial, logarithmic and exponential functions, vectors, complex numbers, conic sections, linear programming, introduction to limits, and mathematical analysis. This course is designed to prepare students for either AP Calculus AB or BC, and should be taken by students who need Calculus to fulfill the requirements of their college mathematics, science, or engineering major.

**Algebra 2 (Course #1431-1432)**

**Grade 11-12**

**Prerequisite: Completion of Geometry or Geometry B.**

Algebra 2 completes the high school Algebra requirement. Students learn to solve polynomial equations utilizing the Fundamental Theorem of Algebra, rational, exponential and logarithmic functions, conic sections and introductory trigonometry. Additional topics include conditional and joint probabilities, modeling and introductory data analysis and statistics.

**Pre-Calculus (Course #1441-1442)**

**Grade 11-12**

**Prerequisite: Algebra 2/Trig (Honors) with a grade of "C" or Algebra 2 with a grade of "B".**

This course is designed to prepare students to begin their college studies in introductory Calculus. It is designed for students who appreciate the role mathematics plays in today's

technological world. Students will learn trigonometry, polynomial, logarithmic and exponential functions, vectors, complex numbers, and conic sections.

**AP Calculus AB (Course #1461-1462)**

**Grade 11-12**

***Prerequisite: Pre-Calculus 1 (Honors) with a grade of “B” both semesters.***

***Completion of summer assignment required before first class meeting.***

AP Calculus AB requires students to be independent learners with a strong math background who may be preparing to major in mathematics, science, or engineering at the college level. AP Calculus AB is a fast-paced college calculus class. Students complete a significant study of limits, differential and integral calculus and analytic geometry. ***Students are required to register for and take the AP Exam in May. A \$115 fee per exam will be collected during exam registration.***

**AP Calculus BC (Course #1463-1464)**

**Grade 11-12**

***Prerequisite: Pre-Calculus 1 (Honors) with a grade of “A” both semesters.***

***Completion of summer assignment required before first class meeting.***

AP Calculus BC requires students to be independent learners with a strong math background preparing to major in mathematics, science, or engineering at the college level. AP Calculus BC is extremely rigorous and fast-paced. ***Students are required to register for and take the AP Exam in May. A \$115 fee per exam will be collected during exam registration.***

**AP Statistics (Course #1465-1466)**

**Grade 11-12**

***Prerequisites: Algebra 2 with a grade of “A” or Algebra 2/Trigonometry (Honors) with a grade of “B” or Pre-Calculus/Pre-Calculus 1 (Honors) with a grade of “C”.***

Students learn the four major themes outlined by the College Board for AP Statistics: Exploratory data analysis, planning a study, Anticipating patterns and statistical inference. Motivated math students may take this course concurrently with Pre-Calculus or AP Calculus. ***Students are required to register for and take the AP Exam in May. A \$115 fee per exam will be collected during exam registration.***

**Statistics (Course #1445-1446)**

**Grade 12**

***Prerequisite: Algebra 2 qualifying assessment.***

Statistics is designed for students who have completed a minimum of Algebra 2 and wish to continue their mathematics education but do not wish to take Pre-Calculus or AP Statistics. Statistics cover four (4) major topics throughout the school year. Producing data, organizing data, probability, and statistical inference. This course will utilize graphing calculator technology with a statistical package (such as the Ti-84). Successful completion of this course prepares students for college-level statistics.

# PHYSICAL EDUCATION

## *Vision Statement*

We envision CCHS graduates leading an active adult lifestyle by applying the principles of health and fitness to engage in lifetime physical activity and personal well-being.

### **Health/Physical Education (Course #1911)**

**Grade 9  
Boys / Girls**

Students enhance lifetime wellness through participation in a variety of team sports, aerobics, fitness activities, weight training and conditioning. **All grade 9 students complete a required health unit.** This health unit explores issues including physical fitness and nutrition, family and social health, drugs and alcohol, disease and disorders and injury prevention and safety.

### **PE/Lifetime Wellness (Course #1921)**

**Grade 10-12  
Boys / Girls**

Students enhance lifetime wellness through participation in a variety of team sports, aerobics, fitness activities, weight training and conditioning.

### **PE/Lifetime Wellness (Course #1931)**

**Grade 11  
Boys / Girls**

Students enhance lifetime wellness through participation in a variety of team sports, aerobics, fitness activities, weight training and conditioning. This health unit explores issues including physical fitness and nutrition, family and social health, drugs and alcohol, disease and disorders and injury prevention and safety.

### **Lifeguard Training (Course #1932)**

**Grade 10-12**

***Prerequisite: Students swim 100 yards continuously and exhibit a positive swimming attitude.***

This class will lead to certification in Lifeguard Training and CPR/First Aid for the Professional Rescuer for students who successfully meet all requirements.

***Materials: Swimming suit. Suit must be appropriate for school pool site. (One-piece suit for females and board shorts or long bathing trunks for males). Towels and sunscreen are required for the class. Goggles are optional but highly recommended.***

### **Sports Medicine 1 - Foundations of Athletic Training (Course #1522) Grade 11-12**

- Fall semester of the year course. Student will receive dual Science/PE credit  
***Prerequisites: A grade of "C" in Biology, Anatomy & Physiology, or concurrent enrollment in Anatomy & Physiology***

Students explore the following: therapeutic careers, medical terminology, anatomy, physiology, first-aid, injury prevention, the healing process, rehabilitation techniques, and therapeutic modalities. Students participate in lab activities and case study problem solving scenarios.

## **Sports Medicine 2 - Exercise Physiology (Course #1523)**

**Grade 11-12**

- Spring semester of the year course. Student will receive dual Science/PE credit

***Prerequisites: A grade of “C” in Biology, Anatomy & Physiology, or concurrent enrollment in Anatomy & Physiology***

Students enrolled in Exercise Physiology explore the following: Muscle Physiology, energy, metabolism, physiological adaptations to training, nutrition, biomechanics, sport psychology, and performance enhancement philosophies. Students participate in lab activities and case study problem solving.

## **ONLINE PE COURSES**

Each online PE course requires an ***additional fee and registration of \$300. Access to the Internet at home*** is required. Students are expected to learn at their own pace, check in regularly with the CCHS instructor who monitors assessments. The course must be completed by the agreed upon date with instructor's approval to earn credit.

### **Health & Personal Wellness – 5 units (Course #1933)**

**Grade 9-12**

The online experience allows students to have hands-on learning opportunities at home and during hours outside of the school day. Students are required to log in weekly or more frequently, complete reading quizzes, participate in physical activities in a home environment, and complete the course within the timeline agreed upon with the instructor's approval. Content emphasizes health, physical fitness, and nutrition for lifetime wellness. The course fulfills the CCHS graduation requirement for the Health/PE course.

### **Personal Fitness (Course #1934)**

**Grade 9-12**

The online experience allows students to have hands-on learning opportunities at home and during hours outside of the school day. Students are required to log in weekly or more frequently, complete reading quizzes, participate in physical activities in a home environment, and complete the course within the timeline agreed upon with the instructor's approval. The course fulfills 5 units of PE credit.

## RELIGIOUS STUDIES

### *Vision Statement*

The CCHS Religious Studies program prepares graduates to participate in the adult life and mission of the Church as faith-filled learners, leaders and responsible community members who promote justice and engage in Christian service.

**Course Sequence – Religion Courses are not UC Approved unless otherwise stated.**

GRADE	GRADUATION REQUIREMENTS
9	Catholic Faith 9
10	Catholic Faith 10
11	The Sacraments Christian Morality *Campus Ministry *Practicum Liturgy *Practicum Music
12	Christian Life Choices Catholic Social Justice and Ethics *Campus Ministry *Practicum Retreat *Practicum Music *Practicum Service

**NOTE: Due to the level of commitment demanded in the Practicum, students may not simultaneously serve as members of ASB, Ambassador for Christ Corps, El Cid Editor, Yearbook Editor or Cheer Squad Captain.**

### **Catholic Faith 9 (Course #1157-1158)**

**Grade 9**

Through their study of the Bible, students come to encounter the living Word of God, Jesus Christ. Students are introduced to the Mystery of Jesus Christ, the Living Word of God, and the second Person of the Blessed Trinity. In learning about who He is, students also learn who He calls them to be.

### **Catholic Faith 10 (Course # 1159-1160)**

**Grade 10**

Students explore God's plan of salvation through Jesus Christ by identifying, exploring, and analyzing how God calls each of us to be active participants in His plan as faith-filled global citizens. Students achieve a deeper understanding of the Church as the means to encounter Jesus Christ and identify how to actively contribute to the life of the Church as life-long learners within it.

### **The Sacraments (Course #1131)**

**Grade 11**

Students are provided an opportunity to encounter Christ in a full and real way. The focus of this course is to help the student learn about the Seven Sacraments, especially the Eucharist, to

enable them to more fully participate in the sacramental life of the Church. The course also explores the history, scriptural foundation, and current practices of the sacraments.

**Christian Morality (Course #1133)**

**Grade 11**

Students face countless choices and challenges in their daily lives. In this course, they address how a relationship with Christ and the Church can lead to choices that are in accord with God's plan. The students learn what it means to live as a disciple of Christ and how the Church strengthens this discipleship.

**Campus Ministry Practicum Liturgy (Course #1135-1136)**

**Grade 11**

*Prerequisite: Interview and approval of Campus Ministry Team.*

Students come to an understanding of Christian Morality, development and meaning of the Sacraments, and the basic tenants of Christian spirituality. In assuming a leadership role as a member of the Campus Ministry team, students implement skills in organizing, planning and facilitating liturgical celebrations. *Fulfills grade 11 religious studies requirement.*

**Campus Ministry Practicum Music-Instrumentalists (Course #1137-1138)**

**Grade 11**

*Prerequisite: Interview, audition and approval of Campus Ministry Team.*

Students come to an understanding of Christian Morality, development and meaning of the Sacraments, and the basic tenants of Christian spirituality. In addition, students learn liturgical theology as it applies to instrumental music ministry. In assuming a leadership role as a member of the Campus Ministry team, students implement skills in organizing, planning and facilitating music at liturgical celebrations. *Fulfills grade religious studies requirement.*

**Campus Ministry Practicum Music-Schola (Course #1150-1151)**

**Grade 11**

*Prerequisite: Interview, audition and approval of Campus Ministry Team.*

Students come to an understanding of Christian Morality, development and meaning of the Sacraments, and the basic tenants of Christian spirituality. In addition, students learn liturgical theology as it applies to sung music. In assuming a leadership role as a member of the Campus Ministry team, students implement skills in organizing, planning and facilitating music at liturgical celebrations. *Fulfills grade 11 religious studies requirement.*

**Introduction to Philosophy (Course #1149) *UC Approved***

**Grade 11-12**

Students study influential philosophers of western civilization. They explore and analyze a broad range of philosophical topics including metaphysics (nature and reality), ethics, logic, religion and epistemology (nature of knowledge).

**Christian Life Choices (Course #1141)**

**Grade 12**

Students explore the four stages of life (single, married, religious and ordained ministry) from the Catholic Christian perspective. Emphasis is placed on identity, creativity, learning, work, money and possessions, suffering and healing, sexuality, love, friendship and communication.

**Catholic Social Justice and Ethics (Course #1142)**

**Grade 12**

Students examine various contemporary issues – poverty, human rights and violence – in light of Catholic social teachings. Students also consider issues by the “consistent ethic of life.” Students are expected to learn and use critical thinking skills and participate in class discussion.

**Campus Ministry Practicum Music-Instrumentalists (Course #1152-1153)**

**Grade 12**

*Prerequisite: Interview, audition and approval of Campus Ministry Team.*

Students develop and apply a practical understanding of Catholic social justice issues and Christian life choices. In addition, students will learn liturgical theology as it applies to

instrumental music ministry. In assuming a leadership role as a member of the Campus Ministry team, students implement skills in organizing, planning and facilitating music at liturgical celebrations. ***Fulfills grade 12 religious studies requirement.***

**Campus Ministry Practicum Music-Schola (Course #1154-1155) Grade 12**  
***Prerequisite: Interview, audition and approval of Campus Ministry Team.***

Students come to an understanding of the Roman Catholic Church's teachings on social justice and Christian life choices as described in course #1141-1142. In addition, students learn liturgical theology as it applies to sung music. In assuming a leadership role as a member of the Campus Ministry team, students implement skills in organizing, planning and facilitating music at liturgical celebrations. ***Fulfills grade 12 religious studies requirement***

**Campus Ministry Practicum Retreat (Course #1145-1146) Grade 12**  
***Prerequisite: Interview and approval of Campus Ministry Team.***

Students come to an understanding of the Roman Catholic Church's teachings on social justice and Christian life choices as described in course #1141-1142. Ministers assume a leadership role as a member of the Campus Ministry team, through active ministry, charitable drives, liturgical celebrations and retreats. ***Fulfills grade 12 religious studies requirement.***

**Campus Ministry Practicum Service (Course #1143-1144) Grade 12**  
***Prerequisite: Interview and approval of Campus Ministry Team.***

Students come to an understanding of the Roman Catholic Church's teachings on social justice and Christian life choices as described in course #1141-1142. Ministers assume a leadership role as a member of the Campus Ministry team through active ministry, organizing and planning Christian service events, school-wide Advent and Lenten drives, and LIGHT Groups. ***Fulfills grade 12 religious studies requirement.***

# SCIENCE

## *Vision Statement*

The CCHS Science program prepares graduates to apply scientific principles, use 21<sup>st</sup> century tools and skills needed to analyze data, solve problems and think critically to excel in advanced scientific studies at the college level and as productive, responsible adults in our global society.

## **Course Sequence**

GRADE	COLLEGE PREPARATORY	HONORS ADVANCED PLACEMENT
9	Biology	
10	*Chemistry Anatomy & Physiology Oceanography	
11	*Chemistry Anatomy & Physiology Oceanography *Physics Sports Med. 1 - Exercise Physiology Sports Med. 2 - Foundations of Athletic Training	AP Biology AP Chemistry Anatomy & Physiology (H) AP Physics B AP Environmental Science
12	*Chemistry Anatomy & Physiology Oceanography *Physics Sports Med. 1 - Exercise Physiology Sports Med. 2 - Foundations of Athletic Training	AP Biology AP Chemistry Anatomy & Physiology (H) AP Physics B AP Environmental Science

**\*CSU/UC require Biology and one year of Chemistry or Physics for admission.**

### **Biology (Course #1511-1512)**

**Grade 9**

Students explore the fundamental concepts of life, including ecology, diversity, cell biology, genetics, evolution and introductory anatomy and physiology in this required, college-prep laboratory science. Students engage in laboratory investigations, experimentation, note taking and project-based learning and research.

### **Chemistry (Course #1531-1532)**

**Grade 10-12**

***Prerequisite: Concurrent enrollment in Algebra 2 or higher-level math or a grade of "C" in Algebra 2.***

Students are introduced to topics in chemistry that include atomic structure, chemical bonding, naming and determining formulas of chemical compounds, chemical reactions, gas laws, thermo chemistry, solution chemistry, and acid-base chemistry. Students engage in a variety of learning activities including laboratory experiments, problem solving, and report writing. This course prepares the student for college level chemistry.

**Anatomy & Physiology (Course #1535-1536)****Grade 10-12**

**Prerequisite: Biology. If the prerequisites have been met, students may enroll in either college prep Anatomy & Physiology or Honors Anatomy & Physiology; not both.**

Students engage in further exploration of the concepts associated with human anatomy and physiology. It is a rigorous second year Biology course for students interested in human biology, medicine and its related professions. Extensive reading and study are required. Participation in the cat dissection is required for completion of this course.

**Oceanography (Course #1545-1546)****Grade 10-12**

**Prerequisite: Biology.**

Students are introduced to the geophysical processes and biological importance of the oceans. The disciplines studied in this course include physical oceanography (wind, waves, weather, tides and currents), geological oceanography (seafloor structure, plate tectonics and sediments), chemical oceanography (composition of sea water, chemical properties of seawater and common chemical reactions that occur), and biological oceanography (marine habitat, marine plants and animals, and biological productivity and energy transfer).

**AP Biology (Course #1561-1562)****Grade 11-12**

**Prerequisite: A grade of "A" in Biology both semesters. In addition, a grade of "A" both semesters of Chemistry or a grade of "B" both semesters of AP Chemistry.**

**Completion of summer assignment required before first class meeting.**

AP Biology engages students in the fundamental concepts of life at an introductory college level. Students perform numerous laboratory assignments, prepare detailed study guides and compose scientific article briefs. **Students are required to register for and take the AP Exam in May. A \$115 fee per exam will be collected during exam registration.**

**AP Chemistry (Course #1563-1564)****Grade 11-12**

**Prerequisite: A grade of "A" in Chemistry both semesters.**

**Completion of summer assignment required before first class meeting.**

Students undertake a rigorous study of topics in chemistry that includes solution chemistry, gas laws, thermo chemistry, kinetics, equilibrium, solubility, electrochemistry and acid base chemistry. Students read a college level text, perform numerous experiments and keep a comprehensive lab notebook. **Students are required to register for and take the AP Exam in May. A \$115 fee per exam will be collected during exam registration.**

**Anatomy & Physiology Honors (Course #1537-1538)****Grade 11-12**

**Prerequisite: A grade of "B" in Biology and Chemistry both semesters.**

**Honors Anatomy is NOT intended as a second year anatomy course. Completion of the college prep Anatomy & Physiology precludes you from taking the honors course.**

Students having a strong interest in human physiology and are planning to pursue a career in the life sciences or health related professional will benefit from this accelerated, in-depth study of the human body. Students will explore the structural and functional relationships of all the organ systems and how they dynamically work together to sustain life. In addition, how the human body responds to pathophysiological imbalances and ultimately maintains homeostasis will be studied. Participation in the cat dissection is required for completion of this course.

**Physics (Course #1541-1542)****Grade 11-12*****Prerequisite: A grade of "C" in Algebra 2, both semesters.******Recommendation: Concurrent enrollment in Pre-Calculus.***

Students engage in exploration of the general concepts of physics. In this introductory course, the main emphasis is on the conceptual aspects of physics in both the lecture and laboratory sections of the class. Critical thinking skills are learned through projects and investigative experience. Extensive reading and study are required.

**AP Physics B (Course #1567-1568)****Grade 11-12*****Prerequisite: A grade of "B" both semesters in Pre-Calculus and Physics.******Recommendation: Concurrent enrollment in Calculus AB or Calculus BC.******Completion of summer assignment required before first class meeting.***

AP Physics is an introductory college level course. Students use a college textbook and study topics including kinematics, sound, waves, thermodynamics, electromagnetism, geometrical and physical optics, and atomic and nuclear physics. Students perform lab experiments, compose scientific articles, deliver presentations and lead Socratic seminars. ***Students are required to register for and take the AP Exam in May. A \$115 fee per exam will be collected during exam registration.***

**AP Environmental Science (Course #1565-1566)****Grade 11-12*****Prerequisite: A grade of "B" in Biology and Chemistry both semesters.******Completion of summer assignment required before first class meeting.***

AP Environmental Science is an introductory college level course. Students develop an understanding of sustainability concepts, principles and practices as they investigate the natural world. Topics of study include the essentials of ecology and biodiversity, population issues, climate disruption, soil and water pollution, along with economics and politics of sustainability. ***Students are required to register for and take the AP Exam in May. A \$115 fee per exam will be collected during exam registration.***

**Sports Medicine 1 - Foundations of Athletic Training (Course #1522) Grade 11-12**

- Fall semester of the year course. Student will receive dual Science/PE credit  
***Prerequisites: A grade of "C" in Biology, Anatomy & Physiology, or concurrent enrollment in Anatomy & Physiology***

Students explore the following: therapeutic careers, medical terminology, anatomy, physiology, first-aid, injury prevention, the healing process, rehabilitation techniques, and therapeutic modalities. Students participate in lab activities and case study problem solving scenarios.

**Sports Medicine 2 - Exercise Physiology (Course #1523)****Grade 11-12**

- Spring semester of the year course. Student will receive dual Science/PE credit  
***Prerequisites: A grade of "C" in Biology, Anatomy & Physiology, or concurrent enrollment in Anatomy & Physiology***

Students enrolled in Exercise Physiology explore the following: Muscle Physiology, energy, metabolism, physiological adaptations to training, nutrition, biomechanics, sport psychology, and performance enhancement philosophies. Students participate in lab activities and case study problem solving.

# SOCIAL SCIENCE

## *Vision Statement*

The CCHS History and Social Science program prepares graduates to assume responsibilities, succeed in adult life and in college by integrating 21<sup>st</sup> Century problem-solving and communication skills with life experiences and cultural-historical understanding of our global society.

## **Course Sequence**

GRADE	COLLEGE PREPARATORY	HONORS ADVANCED PLACEMENT
10	World History	AP World History
11	U.S. History	AP U.S. History
12	American Government Economics	AP American Government AP Macro Economics

### **World History (Course #1621-1622)**

**Grade 10**

Students examine major turning points that shaped the modern world from 1789 to the present. The course begins with an introduction to the current world issues and continues with a focus on the expansion of the West and the growing interdependence of people and cultures throughout the world. Students expand their academic skills of research, reading and writing in the content area.

### **AP World History (Course #1667-1668)**

**Grade 10-12**

***Prerequisites: A grade of "A" in both semesters in English 1 (grade level appropriate) or a grade of "B" in English 1A or Honors (grade level appropriate) and a strong interest in studying the subject in depth, completing large amounts of reading outside of class and the ability to think analytically and learn independently. Tenth grade students must submit English portfolio and AP application.***

***Completion of summer assignment required before first class meeting.***

This is a college-level course for students to develop a greater understanding of the evolution of global interaction among different types of societies. Students study the nature of changes in international frameworks and their causes and consequences. ***Students are required to register for and take the AP Exam in May. A \$115 fee per exam will be collected during exam registration. Fulfills World History requirement for grade 10.***

### **Aventa ONLINE AP European History (Course #3360-3361)**

**Grade 11-12**

***\*An additional \$500 fee will be charged for this course plus a \$115 AP exam fee. Students are required to register for and take the AP Exam in May.***

Course requires an ***additional fee and registration. Access to the Internet at home*** is required. Students are expected to learn at their own pace, but complete the course by an

agreed upon date with instructor's approval. Pre-arranged on-campus check-in dates are required for assessments. **Refer to complete course description on page 35 of this Guide.**

**Asian Studies Honors (Course #1635-1636) Grade 11-12**

**Prerequisites: A grade of "B" both semesters in all social science classes.**

**Local honors only, not UC approved as an honors course.**

This is an introductory-survey course in Asian Studies, focusing on East Asia, China, Korea and Japan in the fall, Southeast (Vietnam, Philippines) and South (India, Pakistan) Asia in the spring. Emphasis is given to geopolitical, historical, economic, linguistic, cultural, social and spiritual elements in each area. Students will learn from the following experiences: lectures, guest speakers, field trips, reading translated literature, analyzing primary sources, map work and films. Active, daily, in-class participation is a graded requirement. By investigating the social and historical foundations of Asia, students will develop a deeper understanding of western and world history. Students develop cultural empathy and widen their perspectives on global issues.

**U.S. History (Course #1631-1632) Grade 11**

Students examine major turning points in American history in the twentieth century. During the year, themes such as the expanding role of the federal government, impact of technology on American society, equal rights, and the role of the U.S. as a world power may be emphasized to directly connect understanding of the United States today to our nation's past. In each unit, students will examine strands of American culture, including but not limited to literature, art, and mass media. The course begins with a unit linked to the tenth grade study of the global spread of industrialism during the nineteenth century. Students expand their academic skills of research, reading and writing in the content area.

**AP U.S. History (Course #1631-1632) Grade 11**

**Prerequisites: A grade of "B" in both semesters in AP World History. Additionally, a "B" or above in all semester honors or advanced English courses is required or an "A" in World History and an "A" in all semesters of English.**

**Completion of summer assignment required before first class meeting.**

Advanced Placement U.S. History requires students to possess a strong interest in history, desire for extensive reading and study at an accelerated, rigorous pace. The course prepares students for college courses by making demands equivalent to those of a full-year introductory course. Students learn to assess historical materials, their relevance to a given interpretive problem and their reliability and their general significance to American historiography. **Students are required to register for and take the AP Exam in May. A \$115 fee per exam will be collected during exam registration.**

**Sociology (Course #1645) Grade 11-12**

Sociology is the study of society. Students in grades 11-12 learn how unequal power relations organize the social world and shape individual lives, and how individuals negotiate their lives in different social and economic contexts. Students will also examine the different theories and methods used within sociology and cover a broad spectrum of topics using critical sociological perspectives.

**Psychology (Course #1646) Grade 11-12**

Psychology introduces students to the major theories and scientific knowledge that attempt to explain human behavior. Human development, sensation and perception, motivation and

emotion, learning, intelligence, theories of personality and abnormal behavior are examined. Students learn to apply the principles of the scientific method in their study of psychology. While most of the emphasis is on the science of psychology, self-awareness is also stressed.

### **American Government (Course #1641)**

**Grade 12**

Students pursue a deeper understanding of the institutions of American government. Comparisons are made of the systems of government in the world today and students analyze the history and changing interpretations of the Constitution, the Bill of Rights and the current state of the legislative, executive and judiciary branches of government. An emphasis is placed on analyzing the relationship among federal, state, and local governments, with particular attention paid to important historical documents such as the Federalist Papers. These standards represent the culmination of civic literacy as students prepare to vote, participate in community activities and assume the responsibilities of citizenship.

### **AP American Government (Course #1661)**

**Grade 12**

***Prerequisites: A grade of "B" both semesters of AP U.S. History or a grade of "A" both semesters of U.S. History.***

***Completion of summer assignment required before first class meeting.***

Seniors with an interest in government and political science are encouraged to enroll. Students are required to engage in extensive reading and accelerated study in one semester. Students focus in-depth attention on the systems and politics of the United States of America in preparation for the Advanced Placement Exam in May. ***Students are required to register for and take the AP Exam in May. A \$115 fee per exam will be collected during exam registration.***

### **Economics (Course #1642)**

**Grade 12**

Students master fundamental economic concepts, applying the tools (graphs, statistics, equations) from other subject areas to the understanding of operation and institutions of economic systems. Studies in a historic context include basic economics, concepts, comparative economic systems, economic decision-making, measurement and methods.

### **AP Macro Economics (Course #1662)**

**Grade 12**

***Prerequisites: A grade of "B" in Pre-Calculus or a grade of "A" in Algebra 2/Trigonometry.***

***Completion of summer assignment required before first class meeting.***

Advanced Placement Macro Economics is designed for students with a strong math background. Students explore a variety of macro-economic principles and are required to engage in extensive reading and study in one semester. ***Students are required to register for and take the AP Exam in May. A \$115 fee per exam will be collected during exam registration.***

## VISUAL & PERFORMING ARTS

### *Vision Statement*

The department believes that a society without artistic expression perishes and therefore, teachers create an environment for CCHS students to become artists, advocates of the arts, creative problem-solvers, and sound critical thinkers, responsible both to themselves and to the needs of the community. Students and graduates express their relationship with God by the beauty of their artistic works, shared publically.

### **Choral Music (Course #1741-1742)**

**Grade 9-12**

Students perform beginning, intermediate, and advanced level literature from various eras of music history. Choir members are required to perform in music festivals and other events scheduled by the Choral Director.

### **Band 1-2 (Course #1745-1746)**

**Grade 9-12**

***Prerequisites: Audition demonstrating knowledge of music reading and a satisfactory level of instrument technique.***

Students perform beginning and intermediate level music from selected periods of music history. The student develops invaluable skills in technical proficiency, aesthetic valuing, individual character and team building. Students learn the theory and history of the music performed. Students are provided an arena where they can grow in both their performance and understanding of historical, stylistic, cultural, and cross curricula relationships in the world of music. ***Required participation in performances and festivals. Students must provide their own instruments. Students must possess basic knowledge of your instrument and reading music.***

### **Dramatic Arts 1-2 (Course #1711-1712)**

**Grade 9-12**

Students study acting, directing, costume, lighting, make-up, hair and set design from the ancient Greek drama to present day productions. Play reading and rehearsal will be supplemented by viewing actual play scripts that have been developed into feature films. Students will direct fellow classmates in traditional genre. Students have the opportunity to participate in interscholastic drama competitions and explore practical applications in the field of theatrical arts, such as marketing, stage management, playwriting, design, and technical direction.

### **Dramatic Arts 3-4 (Course #1713-1714)**

**Grade 9-12**

### **Dramatic Arts 5-6 (Course #1717-1718)**

***Prerequisites: A grade of "B" both semesters in Dramatic Arts 1-2 and Audition***

This is a "pre-professional" training class for students interested in an in-depth study of acting, development of acting technique and establishment of fundamental scene study skills. Students explore the entire journey of working on a script from the first reading to the presentation of work before a live audience. Students experience the teaching and techniques of Strasberg, Meisner, Chekhov and Morrison, which form the basis of our work, as well as a series of specially designed exercises to increase the actor's expression and technical range.

**Beginning Art (Course #1721-1722)****Grade 9-12**

Students learn basic skills in drawing and painting production by applying the fundamentals of the elements and principles of visual art and design. Students express their original creativity visually and will become skilled at the analysis and critical assessment of artworks while using appropriate vocabulary. Students generate a portfolio demonstrating their abilities for college entrance in the visual art field. Students showcase their works during the CCHS art festival in May.

**Advanced Art 3 (Course #1723)****Grade 10-12**

***Prerequisites: A grade of "C" in Beginning Art both semesters.***

In a more independent environment than Beginning Art, students further explore aesthetic perception, creative expression, historical and cultural context, as well as aesthetic valuing and connections, relationships and applications. Through viewing, discussing, writing and applying creative expression using a variety of two dimensional studio techniques. Students interpret artistic styles, from representational to abstract, through art production. Students showcase their works during the CCHS art festival in May.

**Advanced Art 4 (Course #1724)****Grade 10-12**

***Prerequisites: A grade of "C" in Beginning Art and 3.***

In a more independent environment, students interpret artistic styles, from representational to abstract, through art production, such as figures and their relationship to the environment, values within the figure, photo-realism, relief printing, collage techniques, and independent projects. Students showcase their works during the CCHS art festival in May.

**Film Making (Course #1755-1756)****Grade 9-12**

Students participate in creative HD video editing with Apple's Final Cut Studio, and build techniques in writing for film. Students acquire knowledge of the history of film and non-linear editing. Students watch many current industry movies to critique and evaluate contemporary filmmaking methods. Particular focus is placed on story structure, shot lists, and on set production. This class is required for all students interested in taking **Television Production (CCTV)**.

**Guitar (Course #1739-1740)****Grade 10-12**

Students learn to read and play music on the guitar. Technical proficiency will be developed through the study of simple melodies, chords and musical styles. Students develop a repertoire of introductory level music. ***Required participation in performances and festivals. Students must provide their own guitar.***

**Drama Technical Theater (Course #1715-1716)****Grade 10-12****Drama Technical Theater 3-4 (Course # 1719-1720)**

***Prerequisite: A grade of "B" both semesters in Dramatic Arts 1-2 and/or Teacher Approval***

Students study theater styles ranging from serious drama to comedy by creating sets, props, lighting and sound design used in school productions, as well as their own original designs to be incorporated in their portfolio. Students have the opportunity to explore practical applications in the field of theatrical arts, such as marketing, stage management and technical direction.

**Photographic Arts (Course #1751-1752)****Grade 9-12**

Students compose and design original works of art using the medium of photography. Students will expose and develop black and white film and understand different printmaking techniques. Students will use the tools of photography including the camera, the flash, studio equipment and digital image making hardware and software. Students will appreciate their own creativity, the works of art photographers as well as the works of their peers.

***Supplies: A fully manual digital Single Lens Reflex (DSLR) camera and a dedicated fully manual flash are required for the course.***

**AP Art History (Course #1761-1762)****Grade 11-12**

***Prerequisites: A grade of "B" in English 2A or English 3 Honors both semesters or a minimum grade of "A" in English 2 or English 3 both semesters.***

***Completion of summer assignment required before first class meeting.***

Students illustrate an understanding and knowledge of architecture, sculpture, painting and other art forms within diverse historical and cultural contexts through essays, tests and class presentations. Students look at works of art critically, with intelligence and sensitivity and have the ability to analyze historical and contemporary works of art. Each student presents individual projects concentrating on artistic styles and movements. ***Students are required to register for and take the AP Exam in May. A \$115 fee per exam will be collected during exam registration.***

**AP Studio Art Drawing & Paint (Course #1763-1764)****Grade 11-12**

***Prerequisites: A grade of "A" in Beginning Art both semesters or a grade of "B" in Art 3-4 both semesters and/or portfolio submission. Summer assignments and permission of instructor are also required.***

***Completion of summer assignment required before first class meeting.***

Students with a strong interest in the practical experience of art, submit a mandatory portfolio meeting national standards in visual art for college credit. AP Studio Art's rigor requires approximately one work per week in a broad spectrum of style, application and media mastery techniques. Instructor permission is required for enrollment. Students will showcase their works during the CCHS art festival in May. ***Students are required to register for and take the AP Exam in May. A \$115 fee per exam will be collected during exam registration.***

**Television Production - CCTV (Course #1757-1758)****Grade 10-12**

***Prerequisite: A grade of "B" in Filmmaking or interview with instructor.***

Students utilize the concepts of video production learned in Filmmaking in the pre-production, production and post-production of the Cathedral Catholic High School television broadcast. Students analyze the technique and design of news broadcast in anchoring, production and packaging. Students create video productions that will promote school and community events. Students complete and analyze video journalism of various genres and complete projects that will educate, explore and promote the art of video production.

**Advanced Television Production (Course #1759-1760)****Grade 11-12*****UC Approval Pending***

***Prerequisite: A grade of "A" in Television Production or interview with instructor.***

Students utilize the skills developed and learned in Television Production in the pre-production, production and post-production of the Cathedral Catholic High School television broadcast. Students will assume more responsibility in production leadership positions. Students create

video productions that will promote school and community events. Students complete and analyze video journalism of various genres and complete projects that will educate, explore and promote the art of video production.

**Ceramics (Course #1731-1732)**

**Grade 12**

Students use the medium of clay to design and create works of art. Students learn construction, firing, glazing and the history of ceramics. Students make original, hand-built objects in the class. Each student makes functional items out of clay that exhibit the use of design, texture and color.

## NON-DEPARTMENTAL & ONLINE ELECTIVE COURSES

Cathedral Catholic High School strives to provide opportunities for growth and learning in a variety of 21<sup>st</sup> Century contexts, thus enabling our graduates to enter college and adult life as *People of Faith, Character, Responsible Individuals and Life-long Learners*.

### **Learning Center (Course #1830)**

**Grade 9-12**

***Prerequisite: Students with documented disabilities may request from their counselor, placement in the Learning Center on a semester-by-semester basis.***

Senior enrollment is determined by the Learning Center Director. Students will continue to develop good study habits and improve organizational and time management skills. They may also receive other services as determined by their individual learning needs. Students will be monitored frequently for academic progress. ***Students will receive an academic grade. An annual fee of \$250 will be charged.***

### **ASB/Leadership (Course #1851-1852)**

**Grade 11-12**

***Prerequisite: Election to ASB Cabinet or Class Office; approval of Moderator***

This course presents the basics of leadership to students elected to ASB and class officers. Class topics include goal-setting, leadership theories, communication skills, meeting and organizational skills, time-management, decision-making models, budgeting, problem-solving and current social issues. Students learn to participate effectively as Christian leaders in our local community. ***Students will receive an academic grade.***

## ONLINE ELECTIVE COURSES

Select online courses are offered to students who are willing and able to add a seventh class into their schedule. **An online course may not replace a traditional course in a student's required minimum course load as stated on page 2 of this Curriculum Guide.** All CCHS approved online courses will appear on the official transcript.

**An additional online service fee of \$50 plus the \$450 course fee must be paid to CCHS prior to enrollment and start date. CCHS online PE courses require an additional \$300 fee per course.**

Students are advised to consult with their counselor on their academic plan prior to enrollment to determine if the course meets the student's academic needs for graduation and college admission.

Online course enrollment requires completion of a separate registration form with counselor approval and payment of the additional online fees. Students are asked to consult with their counselor to complete the enrollment process.

## Advanced Placement®\*\* Computer Science A

### COURSE DESCRIPTION:

Computer Science A emphasizes object-oriented programming methodology with a concentration on problem solving and algorithm development and is the equivalent of a first-semester college-level course in Computer Science. It also includes the study of data structures, design, and abstraction, but these topics are not covered to the extent that they are in Computer Science AB.

### PREREQUISITES:

- Knowledge of mathematics at the Algebra II level and experience in problem solving. A student in either AP Computer Science course should be comfortable with functions and the concepts found in the uses of functional notation, such as  $f(x) = x + 2$  and  $f(x) = g(h(x))$ .
- Some previous programming experience is also important and necessary for students to have before attempting this Computer Science Advance Placement A course. This course is equivalent to a first year university or college level course and the content is covered quickly. An introductory course in C++, Pascal, Visual Basic, Java or similar course would be sufficient. HTML is not considered a programming language and would not give the students enough of a background to be successful.
- A basic understanding of networks.
- Knowledge of the responsible use of computer systems, including system reliability, privacy, legal issues, intellectual property, and social and ethical ramifications of computer use.

**COURSE LENGTH:** Two semesters

**REQUIRED TEXT:** None

**TECHNOLOGY REQUIREMENTS:** Students should have access to a computer system that represents relatively recent technology (PIII). Each student in the course should have a minimum of 4 hours per week alone on a computer throughout the academic year. Schools need to have Java software already installed on their machines before the course starts and enough memory in their lab machines (128 MB) so that students will be able to compile and run Java program efficiently.

### COURSE OUTLINE:

This course is designed to prepare students for the AP exam, and the course content prepares students to be able to:

- Design and implement computer-based solutions to problems in a variety of application areas
- Use and implement well-known algorithms and data structures
- Develop and select appropriate algorithms and data structures to solve problems
- Code fluently in an object-oriented paradigm using the programming language Java
- Be familiar with and be able to use standard Java library classes from the AP Java subset
- Read and understand a large program consisting of several classes and interacting objects
- Read and understand a description of the design and development process leading to such a program (an example of such a program is the AP Marine Biology Simulation Case Study)
- Identify the major hardware and software components of a computer system, their relationship to one another, and the roles of these components within the system
- Recognize the ethical and social implications of computer use

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## Advanced Placement®\*\* European History

### COURSE DESCRIPTION:

This course is the study of the social, economic, cultural, intellectual, political and diplomatic history of Modern Europe and its place in the history of the world from the fall of Constantinople to the fall of the Berlin wall and the Soviet Union. The course will be taught at a level and rigor equivalent to that required of students in a college freshman or sophomore Modern European History course. Students will develop an understanding of the major periods, ideas, movements, trends, and themes that characterize European history from approximately 1450-the high Renaissance-to the present. Students develop the ability to analyze historical evidence and express understanding and analysis in writing. The course will prepare students for the College Board examination in European History.

**PREREQUISITES:** None

**COURSE LENGTH:** Two semesters

**REQUIRED TEXT:** *The Western Heritage: Since 1300 (8<sup>th</sup> Edition)*, Kagan, Donald, Steve Ozment, and Frank Turner. Prentice Hall 2003. ISBN #0131828835

### COURSE OUTLINE:

- Course Introduction
- Historiography
- Late Middle Ages
- Europe and the Renaissance
- The Reformation: Religious Differences
- Wars of Religion
- Absolute and Constitutional Monarchies
- Galileo and Modern Medicine
- Eastern Europe: The Rise and Fall of the Ottoman Empire
- Aristocracy: The Peasants of Europe
- Scientific Aspects of the Enlightenment
- The French Revolution
- Napoleon
- Revolutions of the 1800s; Liberalism and Conservatism
- Agricultural and Industrial Revolutions
- European Imperialism in the Nineteenth Century
- Nationalism
- Russian Revolution of 1905
- World War I
- World War I and the Russian Revolution of 1917
- Communism and Fascism
- Worldwide Depression
- World War 2 in Europe
- Division of Germany and the Cold War
- The Walls Fall
- European Unification

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## Mandarin (Chinese) I

### COURSE DESCRIPTION:

This is a beginning level course that will introduce the student to a variety of areas of Mandarin Chinese (simplified). In this course, the student will learn listening, speaking, reading, and writing skills through activities that are based on pedagogically proven methods of foreign language instruction. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Culture is sprinkled throughout the course in an attempt to help the learner focus on the Chinese speaking world and their culture, people, geographical locations and histories. The course is aligned to national Foreign Language standards.

**PREREQUISITES:** None

**COURSE LENGTH:** Two semesters

**REQUIRED SOFTWARE:** None

### COURSE OUTLINE:

#### Semester 1

##### Introduction to Chinese

- Language
- Writing
- Pronunciation

##### Greetings

- Hello
- Good morning
- Bye

##### Numbers

- Numbers: from 1 to 10
- From 11 to 99
- From 100 to 999
- 1,000 and after

##### My Family

- Family members
- Birthdays
- Housework

##### School Life

- Classes
- Friends
- Library

#### Semester 2

- Personal Information
- Communication
- Occupation
- Characteristics

##### Dress

- Clothing
- Shoes and Hats
- Fashion

##### Daily Life

- Time
- Agenda
- Daily Routine

##### Shopping

- Food and drink
- Daily necessities, fruits
- Prices

##### In the Restaurant

- Menu
- Ordering
- Paying the bill



## Web Design\*

### **COURSE DESCRIPTION:**

This one-semester course introduces students to the mechanics and elements of web design. Students will learn the key elements of design and HTML, the concepts of planning and organizing websites, and documentation and copyright issues associated with website design. Students will progress through the course, engaging in a variety of project-based assessments to evaluate their understanding.

### **COURSE OBJECTIVES:**

After completing the course, students will be able to:

- Better Understand the planning and organization of a website
- Understand elements of design and HTML
- Explain copyright and fair use doctrines and how they apply to website creation
- Use WYSIWIG editor and other online tools to create a website

**PREREQUISITES:** None

**COURSE LENGTH:** One semester

**REQUIRED TEXT:** NVu (web design software)

### **COURSE OUTLINE:**

- Planning and Organizing a Website
- Elements of Design and HTML
- Documentation and Copyright
- Using WYSIWIG Editor
- Other Online Tools

\* = One semester (.5 credit) course