

# PENSACOLA CATHOLIC HIGH SCHOOL 2024-2025 CURRICULUM BROCHURE

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## Philosophy

"Love one another as I have loved you" is the command of Jesus Christ to those who follow Him. Pensacola Catholic High School believes this command is a mandate for Catholic education and strives to develop the whole person by focus on the spiritual, intellectual, cultural, social, and physical aspects. Catholic High seeks to bring its students to the realization that they are part of a global society which is becoming more and more interdependent and that they must be conscious of the importance of their place in this society. The Christian value of love must be the central theme of the students' development in order for them to understand this interdependence. God calls everyone to respond to His vision of peace and justice. Catholic High seeks to help its students to hear that call and respond with generous trust.

### Program Placement & Academic Levels

The curriculum at Catholic High consists of a four-level educational program. Entering ninth graders are placed in the core subjects of Math, Science, Social Studies, and English according to their ability as demonstrated on the CHS placement test, 6th, 7th, and 8th grade standardized tests, and achievement in 7th and 8th grades. Each year a student's placement is reassessed by each department at the time of registration. This helps to ensure that students are provided with challenges commensurate with their potential. These academic levels are designated by the titles and abbreviations: Honors (H), Accelerated College Prep (ACP), College Prep (CP), and General (G).

### Specialized Academic Programs

In addition to challenging courses in all levels of the curriculum, several specialized programs are available to further enhance the academic offerings at CHS:

**PSC Dual Enrollment Courses:** Students who fulfill the academic requirements established by PSC and CHS may enroll in courses for simultaneous credit from both institutions. Limited space is available in dual enrollment courses. Students who qualify will be admitted on a first come, first served basis. The college credit earned becomes a permanent part of their college transcript and is transferable to all Florida schools and most other four year colleges and universities. Catholic High will offer those dual enrollment courses for which there is sufficient registration. Due to legislation passed in 2013, students will be assessed a \$24 fee, per semester of Dual Enrollment by Pensacola State College. A maximum fee of \$24 will be assessed to a student each semester, regardless of the number of Dual Enrollment courses the student is taking.

**Adaptive Education Program:** This program provides support services to students with diagnosed learning disabilities by: placement in one credit-bearing elective class per day of Learning Strategies; providing an AEP teacher who acts as a liaison between teachers, students, parents and guidance personnel; on-going in-service programs for mainstream teachers in issues related to learning disabilities. The Learning Strategies course uses a combined learning strategies/tutorial approach in a less restrictive environment with small group instruction.

**AP Courses:** AP courses are offered in several areas of the Catholic High School curriculum. Some of these courses are taught in conjunction with PSC Dual Enrollment courses that we already offer. AP courses simply replace the Honors course with which they correspond. The AP curriculum is a rich curriculum that corresponds well with the current CHS Honors curriculum in several areas.

**Florida Virtual School Courses:** FLVS is part of the Florida public education system, is accredited by SACS and offers courses that are NCAA approved. FLVS courses are delivered over the Internet and will be accepted for credit by CHS either as enrichment (elective) courses or as remediation for required courses taken at CHS. FLVS credits are transferable to other schools and colleges. For full details on taking FLVS courses at CHS, please see p. 3 of this brochure.

### CHS REQUIRED CREDITS

DEPARTMENT	# OF CREDITS
Digital Literacy	0.5
English	4
Music Appreciation	0.5
Art Appreciation	0.5
Math	4
Physical Education	0.5
Personal Finance	0.5
Personal Fitness	0.5
Religion	4
Science	3
Social Studies	3.5
ELECTIVES	4.5
<b>TOTAL</b>	<b>26</b>

### Codes Used to Indicate Inclusion in the Florida Core:

- FC - A course considered part of the Florida Core
- FC\* - A weighted course considered part of the Florida Core
- FCe - A course considered a Florida Core elective
- FCe\* - A weighted course considered a Florida Core elective
- BF - Bright Futures

## COURSE OFFERINGS – 2024-2025

Course No.	Department/Course	Level	Sem.	Credit	Course No.	Department/Course	Level	Sem.	Credit
<b>ADAPTIVE EDUCATION</b>					<b>MATHEMATICS</b>				
7111 & 7112	Learning Strategies I (9)	CP	1 & 2	1	2141 & 2142	General Math I (9-10)	G	1 & 2	1
7121 & 7122	Learning Strategies II (10)	CP	1 & 2	1	2151 & 2152	Algebra I-A (10-11)	CP	1 & 2	1
7131 & 7132	Learning Strategies III (11)	CP	1 & 2	1	2251 & 2252	Algebra I-B (10-12)	CP	1 & 2	1
7141 & 7142	Learning Strategies IV (12)	CP	1 & 2	1	2121 & 2122	Algebra I ACP (9-12)	ACP	1 & 2	1
<b>ENGLISH</b>					2011 & 2012	Algebra I (H) (9)	H	1 & 2	1
1111 & 1112	English I Honors (H) (9)	H	1 & 2	1	2122 & 2232	Algebra I (CP)	CP	1 & 2	1
1121 & 1122	English I ACP (9)	ACP	1 & 2	1	2331 & 2332	Geometry (10-12)	CP	1 & 2	1
1131 & 1132	English I CP (9)	CP	1 & 2	1	2221 & 2222	Geometry (10-12)	ACP	1 & 2	1
1141 & 1142	English I G (9)	G	1 & 2	1	2111 & 2112	Geometry (H) (9-10)	H	1 & 2	1
AP1311 & AP1312	AP Language & Composition (10-11)	H	1 & 2	1	2341 & 2342	Algebra II (10-12)	CP	1 & 2	1
1221 & 1222	English II ACP (10)	ACP	1 & 2	1	2321 & 2322	Algebra II (10-12)	ACP	1 & 2	1
1231 & 1232	English II CP (10)	CP	1 & 2	1	2211 & 2212	Algebra II (H) (10-11)	H	1 & 2	1
1241 & 1242	English II G (10)	G	1 & 2	1	2611 & 2612	Personal Finance (10-12)	ACP	1 or 2	1/2
ENC1101	DE English Comp I & II	H	1 & 2	1	2441 & 2442	Advanced Algebra with Financial Applications (11-12)	CP	1 & 2	1
ENC1102					2421	Precalculus (H) (11-12)	H	1	1/2
1321 & 1322	English III (11)	ACP	1 & 2	1	2351 & 2352	AP Precalculus (H) (11-12)	H	1 & 2	1
1331 & 1332	English III (11)	CP	1 & 2	1	2422	Probability & Statistics (11-12)	H	2	1/2
1341 & 1342	English III (11)	G	1 & 2	1	AP2411 & AP2412	AP Calculus AB (12)	H	1 & 2	1
1421 & 1422	English IV (12)	ACP	1 & 2	1	9998	Test Prep (11)		1	1/2
1431 & 1432	English IV (12)	CP	1 & 2	1	<b>PHYSICAL EDUCATION</b>				
1441 & 1442	English IV (12)	G	1 & 2	1	9211	Pers. Fitness/Co-Ed (9)		1 or 2	1/2
AP1411 & AP1412	AP Eng. Literature & Composition (12)	H	1 & 2	1	9311	Team Spts I Co-Ed (10-12)		1 or 2	1/2
1611	Cinematography (10-12)	ACP	2	1/2	9312	Team Spts II Co-Ed (10-12)		1 or 2	1/2
1621	Cinematography (10-12)	CP	2	1/2	9712	Football II (10-12)		1	1/2
1711	Creative Writing (10-12)	ACP	2	1/2	9722	Basketball II (10-12)		1	1/2
1721	Creative Writing (10-12)	CP	2	1/2	9361	Recreational Sports (10-12)			
1911 & 1921	Writing I & II (11-12)	H/ACP	1 & 2	1	9736 & 9732	Baseball II (10-12)		1 or 2	1/2
<b>FINE ARTS</b>					9631	Weight Training III (10-12)		1	1/2
8111	Art Appreciation (9)	ACP	1 or 2	1/2	9642	Weight Training IV (10-12)		2	1/2
8141 & 8142	Ceramics/Pottery I (10-12)	ACP	1 or 2	1/2	<b>RELIGION</b>				
8151	Ceramics/Pottery II (11-12)	ACP	1 or 2	1/2	7117	Scripture I (9)		1	1/2
8171 & 8172	Fabrics/Fibers I (10-12)	ACP	1 or 2	1/2	7215	Scripture II (9)		2	1/2
8401	Music Appreciation (9-10)		1 or 2	1/2	725	The Church-Christ in the World Today (10)		1	1/2
8531	Choir III (9-12)		1	1/2	7224	Sacraments (10)		2	1/2
8541	Choir IV (9-12)		2	1/2	7412	Western Civilization (11)		1	1/2
8811 & 8812	Beginning Band (9-12)		1 & 2	1	732	World Religions (11)		2	1/2
8611 & 8621	Guitar I & II (9-12)		2	1/2	734	Found of Catholic Social Teaching (11)		2	1/2
8821 & 8822	Advanced Band I		1 & 2	1/2	7312	Philosophy (12)		1	1/2
8911	Woodworking I		1	1/2	742	Sociology (12)		2	1/2
<b>FOREIGN LANGUAGE</b>					<b>SCIENCE</b>				
5121 & 5122	Spanish I (10-11)	ACP	1 & 2	1	3121 & 3122	Earth Science (9)	ACP	1 & 2	1
5131 & 5132	Spanish I (10-11)	CP	1 & 2	1	3131 & 3132	Earth Science (9)	CP	1 & 2	1
5221 & 5222	Spanish II (11-12)	ACP	1 & 2	1	3141 & 3142	Earth Science (9)	G	1 & 2	1
5231 & 5232	Spanish II (11-12)	CP	1 & 2	1	3151 & 3152	Integrated Science I (9)	H	1 & 2	1
5311 & 5312	Spanish III (H) (12)	H	1 & 2	1	3111 & 3112	Physical Science (H) (9)	H	1 & 2	1
5911 & 5912	ASL I (10-11)	ACP	1 & 2	1	3211 & 3212	Biology I (H) (10)	H	1 & 2	1
5921 & 5922	ASL II (11-12)	ACP	1 & 2	1	3221 & 3222	Biology I (10)	ACP	1 & 2	1
					3231 & 3232	Biology I (10)	CP	1 & 2	1
					3241 & 3242	Biology I (10)	G	1 & 2	1
					AP3311 & AP3312	Chemistry (H) (11-12)	H	1 & 2	1
					3311 & 3312	Chemistry (H) (11)	H	1 & 2	1
					3321 & 3322	Chemistry (11-12)	ACP	1 & 2	1
					3441 & 3442	Chemistry (11-12)	CP	1 & 2	1

Course No.	Department/Course	Level	Sem.	Credit	Course No.	Department/Course	Level	Sem.	Credit
SCIENCE - Continued					TECHNOLOGY				
3511	Anatomy & Phys I (11-12)	H	1	1/2					
3512	Anatomy & Phys II (H) (11-12)	H	2	1/2	6121	Digital Literacy I (9)		1	1/2
3522	Genetics (H) (11-12)	H	2	1/2	6141	Advanced Digital Literacy		1	1/2
3921	Marine Science I (11-12)	ACP	1	1/2	6811/6812	Introduction to Technology H	ACP	1 or 2	1/2
3931	Marine Science I (11-12)	CP	1	1/2	6821/6822	Video Game Design H	ACP	1 or 2	1/2
3922	Marine Science II (11-12)	ACP	2	1/2	6651/6652	Introduction to Computer Science		2	1/2
3932	Marine Science II (11-12)	CP	2	1/2		(10-12) H	ACP		
3721	Env. Science I (10-12)	ACP	1	1/2	6218	App Development I (10-12)	ACP	1 or 2	1/2
3731	Env. Science I (10-12)	CP	1	1/2	6228	App Development I (10-12)	ACP	2	1/2
3722	Env. Science II (10-12)	ACP	2	1/2	6119/6219	Cybersecurity I (10-12)	H	2	1/2
3732	Env. Science II (10-12)	CP	2	1/2	6129	Cybersecurity II (10-12)	H	2	1/2
3621 & 3622	Principles of Tech I (10-12)	H	1 or 2	1/2	AP6211 & AP6212	AP Computer Science Principles (Gr 10-12)	(AP)	1 & 2	1
3623 & 3624	Principles of Tech II (10-12)	ACP	or 2	1/2					
3661 & 3662	Robotics III & IV (10-12)	H	1 & 2	1/2					
3663 & 3664	Robotics V & VI (10-12)	H	1 & 2	1/2					
3421 & 3422	Physics (H) (12)	H	1 & 2	1					
AP3411 & AP3412	AP Physics I (H) (12)	H	1 & 2	1					
AP3721 & AP3722	AP Environmental Science	H	1 & 2	1					
<b>SOCIAL STUDIES</b>									
V4111	World Geography (H) (9)	H	1 or 2	1/2					
4121	World Geography (9)	ACP	1 or 2	1/2					
4131	World Geography (9)	CP	1 or 2	1/2					
4141	World Geography (9)	G	1 or 2	1/2					
AP4211 & AP4212	AP World History (H) (10)	H	1 & 2	1					
4221 & 4222	World History ACP (10)	ACP	1 & 2	1					
4231 & 4232	World History CP (10)	CP	1 & 2	1					
4241 & 4242	World History G (10)	G	1 & 2	1					
AP4351 & AP4352	AP/DE US History (H) (12)	H	1 & 2	1					
4321 & 4322	American History (11)	ACP	1 & 2	1					
4331 & 4332	American History (11)	CP	1 & 2	1					
4341 & 4342	American History (11)	G	1 & 2	1					
AP4411	AP American Govern. (11)	H	1 or 2	1/2					
4421	Amer Nat'l Govern. (12)	ACP	1 or 2	1/2					
4431	Amer Nat'l Govern. (12)	CP	1 or 2	1/2					
4441	Amer Nat'l Govern. (12)	G	1 or 2	1/2					
AP4412	AP Macro Economics (11)	H	1	1/2					
4422	Economics (12)	ACP	1 or 2	1/2					
4432	Economics (12)	CP	1 or 2	1/2					
4511	Humanities I (H) (11 & 12)	H	1						
4442	Economics (12)	G	1 or 2	1/2					
6711	Law Studies (10-12)	ACP	1	1/2					
6712	Marketing (10-12)	ACP	2	1/2					
AP4431 & AP4432	Psychology	H	1 & 2	1					

All courses offered by CHS in 2023-2024 are semester courses and will be averaged as such. Therefore, in the event of failure, one session of summer school must be attended for each semester course failed. Those that were formerly year courses have two course numbers indicated. Both numbers must be entered on the Course Selection Sheet when registering for these courses.

### POLICIES FOR COURSE CHANGES

Students and parents are given an extended opportunity each year during the second semester to consider the program for the following year. Budget requirements and teacher assignments are based on student course selections. Students and parents are therefore advised that course selections made at the time of registration in the spring are considered final. If a student determines that a course change is necessary, the following policies and procedures are required:

1. No request will be honored which involves a change from one section of a course to another section of the same course.
2. No course can be substituted for a required course.
3. Written permission from parents on forms procured from the Scheduling Office must be presented.
4. A \$25 fee for course registration change must be presented in all cases except where this change was initiated by administrative decision.

## ADAPTIVE EDUCATION

The Adaptive Education Program offers support services for students who have difficulty functioning in the standard curriculum due to an identified learning disability or some other identified health impairment that could affect academic performance. Services that may be included are assistance with general education course work, delivery of prescribed accommodations, and learning strategies instruction. Acceptance into the program is based on psychoeducational testing with results current within three years, formal application, academic testing, and recommendation from the Adaptive Education Staffing Committee.

### Learning Strategies

(Gr. 9-12)

(I) 7111 & 7112 / (II) 7121 & 7122;  
(III) 7131 & 7132 / (IV) 7141 & 7142 (CP)

This course is designed to provide support services to students who have been identified (through psychological and academic testing) as having a learning difficulty (or other qualifying health impairment). Students receive help in a variety of study skills to enhance their academic performance in the regular classrooms. In addition, help in the various subject areas is also available.

Prerequisite: Prior Acceptance into the AE Program and Signature of AEP Teacher.

## ENGLISH

CHS requires students to complete 4 credits in English. Several elective offerings are also available.

### English I (H)

(Gr. 9)

FC\*/BF\*

1111 & 1112 (H)

Students undertake an advanced study of a variety of literary forms. Reading instruction includes strategies to analyze the features of and think critically on a literary work. Vocabulary study is based on the classical roots of Greek and Latin. Writing instruction in this course is tailored to enhance each student's abilities. Students undertake research skills and examine various resources. Critical thinking and strong organizational skills are necessary for the significant amount of independent work required.

Prerequisites: Evaluation of student placement data.

### English I

(Gr. 9)

FC/BF

1121 & 1122 (ACP)

Students undertake a comprehensive study of a variety of literary forms. Reading instruction includes strategies to analyze the features of and think critically on a literary work. Vocabulary study is based on the classical roots of Greek and Latin. Writing instruction in this course is tailored to enhance each student's abilities. Students undertake research skills and examine various resources. Vocabulary study is based on the classical roots of Greek and Latin. Students undertake research skills and examine various resources.

Prerequisites: Evaluation of student placement data.

### English I

(Gr. 9)

FC/BF

1131 & 1132 (CP)

This course is designed to assist students in developing language arts skills in reading comprehension and writing. Students read and respond to a variety of literary forms. Vocabulary study is based on the classical roots of Greek and Latin. Writing instruction in this course is tailored to enhance each student's abilities. Students undertake research skills and examine various resources.

Prerequisites: Evaluation of student placement data.

### English I

(Gr.9)

FC/BF

1141 & 1142 (G)

This course is designed to assist students in developing fundamental language arts skills in reading comprehension and writing. Writing instruction in this course is tailored to enhance each student's abilities. Students read and respond to a variety of literary forms. Vocabulary study is based on the classical roots of Greek and Latin. Students undertake research skills and examine various resources.

Prerequisites: Evaluation of student placement data.

### AP Language & Composition

(Gr. 10) Sem 1 & 2

FC\*/BF\*

AP1311 & AP1312

This course engages students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts and in becoming skilled writers. Students write in a variety of forms on diverse subjects, from personal experiences to public policies and from imaginative literature to popular cultures. Writing instruction in this course is tailored to enhance each student's abilities. Prerequisites: The student must have a minimum of a "B" average in English I Honors in the first semester of the current school year. Signature of current English teacher is required.

### English II

(Gr. 10). Sem 1 & 2

FC/BF

1221 & 1222 (ACP)

Students undertake a comprehensive study of literature from a variety of literary forms. Reading instruction includes strategies to analyze the features of and think critically on a literary work. Vocabulary study is based on the classical roots of Greek and Latin. Writing instruction in this course is tailored to enhance each student's abilities. Critical thinking and strong organizational skills are necessary for the significant amount of independent work required.

Prerequisites: Minimum of an "A" average in English I (CP) in the first semester of the current school year. Signature of current English teacher is required.

### English II

(Gr. 10). Sem 1 & 2

FC/BF

1231 & 1232 (CP)

1241 & 1242 (G)

This course continues to assist students needing to improve language arts skills in reading comprehension and writing. Students read and respond to a variety of literary forms. Vocabulary study is based on the classical roots of Greek and Latin. Writing instruction in this course is tailored to enhance each student's abilities.

Prerequisites: Signature of current English teacher is required.

**DE English Comp I & II** **FC\*/BF\***  
**(Gr. 11). Sem 1 & 2** **ENC1101 & ENC1102**

A comprehensive course embodying the fundamentals of effective expression with emphasis on expository writing and logical thinking. This course also addresses the fundamentals of effective expression to include composing essays and other academic writing, constructing effective arguments, conducting research, completing at least one research-based essay, and analyzing literature. Each of these courses will earn the student 3.0 credit hours through PSC.

Prerequisites: The student must have a minimum of a "B" average in English AP Language & Composition in the first semester of the current school year. Signature of current English teacher is required.

**English III** **FC/BF**  
**(Gr. 11). Sem 1 & 2** **1321 & 1322 (ACP)**  
**1331 & 1332 (CP)**  
**1341 & 1342 (G)**

Students undertake a study of American literature including short stories, essays, poetry, drama, and nonfiction. Reading instruction includes strategies to analyze the features of and think critically on a literary work. Vocabulary study is based on the classical roots of Greek and Latin. Writing instruction in this course is tailored to enhance each student's abilities. Students write a research paper using MLA formatting.

Prerequisites: For Course 1321 (ACP): Minimum of an "A" average in English II (CP). Signature of current English teacher is required.

**English IV** **FC/BF**  
**(Gr. 12). Sem 1 & 2** **1421 & 1422 (ACP)**  
**1431 & 1432 (CP)**  
**1441 & 1442 (G)**

Students undertake a study of British and world literature including short stories, essays, poetry, and drama. Students analyze the features of and think critically on a literary work. Vocabulary study is based on the classical roots of Greek and Latin. Writing instruction in this course is tailored to enhance each student's abilities. Students write a research paper using MLA formatting.

Prerequisites: For Course 1421 (ACP): Minimum of an "A" average in English III (CP). Signature of current English teacher is required.

**AP Literature & Composition** **FC\*/BF\***  
**(Gr. 12) Sem 1 & 2** **AP1411 & AP1412**

This course engages students in the careful reading and critical analysis of imaginative literature. Students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. The course includes an intensive study of representative works from various genres and periods. Writing instruction in this course is tailored to enhance each student's abilities.

Prerequisites: The student must have a minimum of a "B" average in DE English Composition I & II. Signature of current English teacher is required.

**Cinematography** **FCe**  
**(Gr. 10-12) Sem 1** **1611(ACP) 1621 (CP)**

This course is designed to enhance the student's appreciation of American cinema as an art form. The art and science of filmmaking is analyzed and interpreted through an historical perspective, including the work of renowned directors and their hallmark films. Students undertake the role of director as they produce and develop their own short film. This is an elective course and does not meet the required English credits needed for graduation.

Prerequisites: Signature of current English teacher is required.

**Creative Writing** **FC**  
**(Gr. 10-12) Sem 2** **1711 (ACP) 1721 (CP)**

This course is designed to nurture students' creativity through exposure to various types of creative writing including fiction, poetry, drama, and advertising. Students strengthen their writing skills as they stretch their imaginations and powers of observation. Closely guided by the teacher, students learn techniques for writing vividly and skills to critique and analyze the work of others. This is an elective course and does not meet the required English credits needed for graduation.

Prerequisites: Signature of current English teacher is required.

**Writing I & II** **FC/BF**  
**(Gr. 11-12) Sem 1 and 2** **1911 & 1961 (H)**

This course personally addresses the planning, fundraising and execution of the yearbook of PCHS, Charisma Express. Layouts, journalistic design, photography, sales, computerization, public relations and teamwork are essential parts of this course.

Prerequisites: "B" average in English and Digital Literacy and signature of Ms. Fuqua.

## FINE ARTS

CHS requires students to complete 1/2 credit in Art Appreciation and 1/2 credit in Music Appreciation.

**Art Appreciation** **FCe**  
**(Gr. 9) Sem 1 or 2** **8111**

This course develops skills in both two- and three-dimensional design in various media. It also includes the study of art history.

Prerequisites: \$30 course fee.

**Ceramics/Pottery I** **FCe**  
**(Gr. 10-12) Sem 1 or 2** **8141 & 8142**

This course explores hand-building methods and techniques of making pottery. It includes lectures and demonstrations on the use of clay, glazes and the kiln. The history of ceramics is included in this course.

Prerequisites: "B" average in Art Appreciation, signature of Mr. Dodson, \$35 course fee.

**Ceramics/Pottery II** **FCe**  
**(Gr. 11-12) Sem 1 or 2** **8151**

This course is designed to meet the individual needs of each student. He/she will explore pottery in a self-motivated

curriculum. Students will expand their skills learned in Ceramics/Pottery I.

Prerequisites: Art Appreciation; minimum "B" average in Ceramics/Pottery I, \$35 course fee, signature of Mr. Dodson.

**Fabrics/Fiber I** **FCe**  
**(Gr. 10-12) Sem 1 or 2** **8171 & 8172**

This class will explore the crafts area of the arts. It will include paper mâché, weaving, leather works, fabric art and other folk art.

Prerequisites: "B" average in Art Appreciation, signature of Mr. Dodson, \$35 course fee.

**Woodworking I** **FCe**  
**(Gr.10-12) Sem1** **8911**

Woodworking I is designed to teach students basic woodworking skills and knowledge. Course content includes planning and designing in Woodworking, selecting and identifying materials, woodshop safety, the use of hand power tools, and the production of woodworking projects.

Prerequisites: Signature of Math teacher \$30 course fee.

**Music Appreciation** **FCe**  
**(Gr. 9-10) Sem 1 or 2** **8401**

Students will learn basic music fundamentals, including rhythm, melody, harmony and note reading. Students will also study the different families of instruments, periods and styles of music, and have an overview of popular and world music.

Prerequisites: \$10 lab fee.

**Choir III** **FCe**  
**(Gr. 9-12) Sem 1 or 2 OR Sem 1 and 2** **8531**

Choir offers experience in singing and performance. Special emphasis is given to techniques for singing, fundamentals of reading music, and development of individual musical ability. Students will study and perform in the following genres: Concert Choir, Show Choir, Musical Theatre, small ensembles, and solos. Choir can be taken for either semester or both. **Choir is a performance class. Performances are mandatory and will count toward the student's grade.** Choirs will have one evening performance near the end of each semester. Musical Theatre, Show Choir, etc. may have additional performances. This course fulfills the Music Appreciation requirement.

Prerequisites: \$30 course fee. Signature of Mr. Turner.

**Choir IV** **FCe**  
**(Gr. 9 – 12) Sem 1 or 2** **8541**

Chorus offers experience in singing and performance. Special emphasis is given to: technique for singing; fundamentals of reading music; and development individual music ability. Students will study and perform in the following genres: Concert Choir, Show Choir, Music Theatre, small ensembles, and solos. Choir may be taken for one semester or both. **Choir is a performance class. Performances are mandatory and will count toward the student's grade.** Choirs will have one evening performance near the end of each semester. Music Theatre, Show Choir, etc. may have additional performances. This fulfills the Music Appreciation requirement.

Prerequisite: \$30 course fee; Signature of Mr. Turner.

**Beginning Band** **FCe**  
**(Gr. 9 – 12) Sem 1 or 2** **8811 & 8812**

Many of our students at PCHS have a high musical aptitude coupled with a strong desire to learn to play a band instrument. Beginning band class will provide these students not only with the opportunity to enhance their high school experience, but also to enjoy a life-long love of performing music. Students at the high school level can master the skills required to play a musical instrument 3 to 4 times faster than younger students. This will allow these students to move quickly into our marching, concert, and jazz/rock bands. Students will begin instruction on a band instrument of their choice. Band may be taken for one or both semesters. **Beginning Band is a performance class. Performances are mandatory and will count toward the student's grade.** Beginning Band will have one evening performances near the end of each semester. Directors, coaches, and club sponsors will work together to ensure that the student will be able to participate fully in all activities Catholic High has to offer. This course fulfills the Music Appreciation Requirement.

Prerequisites: Course fee \$30. Rental of school-owned instruments, \$50 per semester.

**Advanced Band** **FCe**  
**(Gr. 9 – 12) Sem 1 & 2** **8821 & 8822**

This full year, advanced-level course, is designed for students with woodwind, brass, or percussion instrument experience to promote the enjoyment and appreciation of music through the performance of high-quality, band literature. Rehearsals focus on the development of critical listening skills, instrumental technique and skills, music literacy, and ensemble skills. Band is a full-year course and students must commit to the entire year to adequately master their instrument. **Advanced Band is a performance class. Performances are mandatory and will count toward the student's grade.** Advanced Band will perform as football games, school activities and concerts, and community concerts. Directors, coaches, and club sponsors will work together to ensure that the student will be able to participate fully in all activities Catholic High has to offer. This course fulfills the Music Appreciation requirement.

Prerequisites: \$30 course fee. Rental of school-owned instruments, \$50 per semester. Signature of Mr. Turner.

**Guitar I & II** **FCe**  
**(Gr. 9 – 12) Sem 2** **8611/8621**

Students with little or no experience develop basic guitar skills and knowledge, including simple and full-strum chords, bass lines and lead sheets, barre and power chords, foundational music literacy and theory, major scales, simple finger-picking patterns, and ensemble skills for a variety of music. Beginning guitarists explore the careers and music of significant performers in a variety of styles. Public performances may serve as a culmination of specific instructional goals. Students may be required to attend and/or participate in rehearsals and performances outside the school day to support, extend, and assess learning in the classroom. This course requires students to obtain a musical instrument (e.g., borrow, rent, purchase) from an outside source.

Prerequisites: Signature of Mr. Turner

## FOREIGN LANGUAGE

For students desiring a 4-year college education, a minimum of two sequential years of the same foreign language is strongly recommended.

### **Spanish I (ACP) FC/BF** **(Gr. 10-11). Sem 1 & 2 5121 & 5122 (ACP)**

This course is designed for students who wish to complete a high school curriculum in Spanish. Spanish 1 ACP prepares students to develop skills of understanding, speaking, reading and writing in Spanish with emphasis on pronunciation, vocabulary building and grammatical structures as well as understanding of culture of Spanish speaking countries. Successful completion of this course will satisfy the first of the two-year foreign language requirement at a four-year university.

Prerequisites: Minimum of a 'C' average in English ACP in the first semester of the current school year; signature of 1<sup>st</sup> semester English teacher. \$10 lab fee.

### **Spanish I (CP) FC/BF** **(Gr. 10-11). Sem 1 & 2 5131 & 5132 (CP)**

This course is designed for students who desire a minimum capability in Spanish. Spanish I CP stresses proper pronunciation and minimum conversational ability. One verb tense will be presented and Spanish culture will be introduced. Successful completion of this course will satisfy the first of the two-year foreign language requirement at a four-year university. Successful achievement in this course will prepare the student for Spanish II CP.

Prerequisites: Minimum of a "C" average in English in the first semester of the current school year; signature of 1<sup>st</sup> semester English teacher. \$10 lab fee.

### **Spanish II (ACP) FC/BF** **(Gr. 11-12). Sem 1 & 2 5221 & 5222 (ACP)**

This course continues developing acquired skills in Spanish I ACP, with emphasis in reading comprehension, listening comprehension, and functional fluency. Spanish is spoken extensively in classroom and complex grammar structures are introduced. Spanish II ACP prepares students for intermediate or advanced level of Spanish.

Prerequisites: Minimum of a "C" average in Spanish I ACP in the first semester of the current school year; signature of 1<sup>st</sup> semester Spanish I teacher. \$10 lab fee.

### **Spanish II (CP) FC/BF** **(Gr. 11 & 12). Sem 1 & 2 5231 & 5232 (CP)**

This course continues developing student's conversational skills and introduces more grammar structures needed to prepare students for an intermediate conversational level of Spanish at a two-year higher education institution. Successful completion of this course will satisfy the second of the two years in foreign language required at a four years' university.

Prerequisite: Minimum of a "C" average in Spanish I CP for the first semester of the current school year.

### **Spanish III (H) FC/BF** **(Gr. 12) (Gr. 10, 11, 12). Sem 1 & 2 5311 & 5312 (H)**

This course is a continuation of Spanish II ACP with emphasis on composition, writing, conversation, Spanish Literature introduction, listening, comprehension, and

translation. Spanish III prepares students for intermediate or advanced level of Spanish at a two or four-year higher education institution.

Prerequisites: Minimum of "A" average in Spanish II ACP in first semester of the current school year. Approval and signature of the Spanish II teacher required. \$10 lab fee.

## MATHEMATICS

Catholic High School requires students to complete 4 credits in Mathematics.

### **General Math I (I) 2141 & 2142 (G)** **(Gr. 9-10). Sem 1 & 2**

The purpose of this course is to strengthen and teach general mathematical skills and concepts. Topics include operations of whole numbers, decimals, percents, and fractions; ratio and proportion; measurement; geometric figures; graphing; formulas and equations.

Prerequisites: Evaluation of student placement data.

### **Algebra I-A FC/BF** **(Gr. 10-11) Sem 1 & 2 2151 & 2152 (CP)**

Algebra 1-A is a course designed to develop the skills necessary for success in algebra. Topics shall include operations with rational numbers, variables, ratio and proportion, percent, graphs, sets, number theories, properties of rational numbers, equations and inequalities, exponents, and evaluation of formulas.

Prerequisites: Evaluation of student placement data or signature of General Math teacher.

### **Algebra I-B FC/BF** **(Gr. 10-12) Sem 1 & 2 2251 & 2252 (CP)**

This course emphasizes the development of basic algebra skills. Topics include operations with real numbers, simplifying expressions, solving equations, factoring polynomials, solving quadratic equations, and graphing linear equations. A TI-84 Plus calculator is required for this course.

Prerequisites: Algebra 1-A and signature of Algebra 1-A teacher.

### **Algebra I FC/BF** **(Gr. 9-12) Sem 1 & 2 2121 & 2122 / 2231 & 2232 (ACP/CP)**

This course provides the foundation for more advanced mathematics courses. Topics include operations with real numbers, algebraic expressions, solving equations and inequalities in one variable, operations with and factoring of polynomials, solving polynomial equations, solving rational equations, graphing linear equations, solving and graphing systems of linear equations, operations with radicals, and solving quadratic equations using radicals. A TI-84 Plus or a TI-30XiiS graphing calculator is required for this course.

Prerequisites: Evaluation of student placement data or signature of current math teacher.

### **Algebra I (H) FC\*/BF\*** **(Gr. 9) Sem 1 & 2 2011 & 2012 (H)**

This *honors* course provides a rigorous and in-depth study of Algebra, emphasizing problem solving skills as a foundation for advanced math courses. Topics include operations with real numbers, algebraic expressions, solving equations and inequalities in one variable, operations with and factoring of

polynomials, solving polynomial equations, solving rational equations, graphing linear equations and inequalities, understanding relations, functions and variation, graphing and solving systems of linear equations, operations with radicals, and solving and graphing quadratic equations and functions. A TI-84 Plus graphing calculator is required for this course.

Prerequisites: Evaluation of student placement data.

**Geometry** **FC/BF**  
**(Gr. 10-12) Sem 1 & 2** **2331 & 2332 (CP)**

This course emphasizes the use of basic geometric skills as tools in solving real-world problems. Topics shall include properties of lines, triangles, quadrilaterals, and circles; congruence and similarity; perimeter, area and volume; coordinate geometry. A TI-84 Plus graphing calculator is required for this course.

Prerequisites: Algebra 1-B and signature of Algebra 1-B teacher.

**Geometry** **FC/BF**  
**(Gr. 10-12) Sem 1 & 2** **2221 & 2222 (ACP)**

Geometry is a course that emphasizes critical thinking skills and deductive reasoning in the discovery of geometric relationships. Topics include logic and reasoning, the study of the Euclidean Geometry of lines, planes, angles, triangles, similarity, congruence, geometric inequalities, polygons and circles, area and volume, and constructions. A TI-84 Plus graphing calculator is required for this course.

Prerequisites: Minimum of "C" average in Algebra I (ACP) and signature of Algebra I (ACP) teacher.

**Geometry (H)** **FC\*/BF\***  
**(Gr. 9-10) Sem 1 & 2** **2111 & 2112 (H)**

This *honors* course provides an in-depth study of geometry with emphasis on geometric proofs and problem solving. Topics include logic and reasoning, the study of the Euclidean Geometry of lines, planes, angles, triangles, similarity, congruence, geometric inequalities, polygons and circles, area and volume. A TI-84 Plus graphing calculator is required for this course.

Prerequisites: Evaluation of student placement data or minimum of a "B" average in Algebra I (H) with signature of Algebra I (H) teacher.

**Algebra II** **FC/BF**  
**(Gr. 10-12) Sem 1 & 2** **2341 & 2342 (CP)**

This course provides students further study in the language and processes of Algebra. Topics include linear equations and inequalities, linear functions and inequalities, solving and graphing quadratic equations, operating with polynomial expressions, operating with rational expressions, simplifying expressions involving powers, roots, and fractions, and simplifying and operating with exponential and logarithmic functions. A TI-84 graphing calculator or TI-30XiIS is required for this course.

Prerequisites: Minimum of a "C" average in Geometry CP and signature of Geometry CP teacher.

**Algebra II** **FC/BF**  
**(Gr. 10-12) Sem 1 & 2** **2321 & 2322 (ACP)**

This course continues the study of the structure of algebra and provides the foundation for applying these skills to other mathematical and scientific fields. Topics include the real number system, relations, functions and graphs, polynomials and rational expressions, quadratic equations and inequalities, rational and irrational exponents, logarithms, complex numbers, and word problems. A TI-84 Plus graphing calculator is required for this course.

Prerequisites: Minimum of a "C" average in Geometry ACP and signature of Geometry ACP teacher.

**Algebra II (H)** **FC\*/BF\***  
**(Gr. 10-11) Sem 1 & 2** **2211 & 2212 (H)**

This *honors* course provides a rigorous in-depth study of the topics of Algebra II with emphasis on theory, proof, and development of formulas, as well as their application. Topics shall include, but not be limited to Algebraic structure, first-degree equations, systems of equations and inequalities, functions, logarithms, complex numbers, conic sections, probability and matrices. A TI-84 Plus graphing calculator is required for this course.

Prerequisites: Minimum of a "B" average in Algebra I (H) and Geometry (H) and signature of Algebra I(H) and Geometry (H) teachers.

**Personal Finance**  
**(Gr. 10-12) Sem 1 or 2** **2611 & 2612 (ACP)**

In this introductory finance course, students study basic principles and best practices for managing personal finances. They develop core skills in creating budgets, formulating long-term financial plans, and making responsible choices about income and expenses. They gain a deeper understanding of credit, investments, taxes, and spending in order to understand the impact of individual choices on occupational goals and future earnings potential.

**Advanced Algebra with Financial Applications** **FC/BF**  
**(Gr. 12) Sem 1** **2441 & 2442 (CP)**

This course is designed for students to further their Algebra skills while at the same time, developing mathematical competence in problem solving, communications, and reasoning related to the consumer and business world. Topics include the purchase and sale of goods and services, banking, credit, investments, insurance, personal income, taxes and budgeting.

Prerequisites: Students must have completed Geometry CP.

**Precalculus (H)** **FC\*/BF\***  
**(Gr. 11-12) Sem 1** **2421(H)**

This is an *honors* course designed to provide students with the study of trigonometric functions and their applications. Topics include solutions of right and oblique triangles, fundamental identities, graphs of functions, trigonometric equations and vectors A TI-84 Plus graphing calculator is required for this course.

Prerequisites: Minimum of a "C" average in Algebra II (ACP) and signature of Algebra II (ACP) teacher.



**AP Precalculus (AP)**  
**(Gr. 11-12) Sem 1 & 2**

This AP course includes the study of trigonometric, geometric, and algebraic techniques needed to prepare students for the study of calculus. It strengthens students' conceptual understanding of problems and mathematical reasoning. It is especially important for students intending to study calculus, physics, other sciences, and/or engineering, in college. Topics include: trigonometric functions, their graphs, and their use in applications, polynomial, piecewise, rational, radical, exponential, and logarithmic functions; conic sections, and applications of vectors. Special emphasis is given to finding algebraic and trigonometric models for real-world data and using these models to predict future behavior.

A TI-84 Plus graphing calculator is required for this course.  
Prerequisites: Minimum of a "B" average in Algebra II (H) and signature of Algebra II (H) teacher.

**Probability & Statistics (H)**  
**(Gr. 11-12) Sem 2**

This course is designed for college bound students interested in Business and the Social and Life Sciences. Topics will include simple probability, measures of central tendency and dispersions, frequency distributions, normal distributions, and hypothesis testing. A TI-84 Plus graphing calculator is required for this course.

Prerequisites: Minimum of "C" average in Algebra II and signature of Algebra II teacher.

**AP Calculus AB (AP)**  
**(Gr. 12) Sem 1 & 2**

This AP course is recommended for seniors who excel in mathematics and wish to pursue mathematics related careers. Topics to be addressed include: analysis of graphs, limits and functions, techniques of differentiation, derivatives at a point, interpretations of differential equations via slope fields, interpretations and properties of definite integrals, applications of integrals, techniques of anti-differentiation, applications of anti-differentiation, numerical approximations of definite integrals, and the Fundamental Theorem of Calculus. A TI-84 Plus graphing calculator is required for this course.

Prerequisites: Minimum of "B" in AP Precalculus (AP) and signature of AP Precalculus (AP) teacher.

**Test Prep (H)**

**(Gr. 11) Sem 1**

The purpose of this course is to prepare incoming, college-bound Juniors for the PSAT-NMSQT, SAT, and ACT which are taken primarily during the 11<sup>th</sup> grades. The course will emphasize PSAT, SAT, and ACT test-taking strategies with specification in math, language, reading, and science-reasoning skills at a rigorous, honors-level pace. With a central goal of increasing both subtest and composite scores, students will be introduced to numerous questioning and thinking skills, information retrieval techniques, and reading and vocabulary development. Students will gain standardized test fluency and confidence in preparation for these important standard assessments. This course will not include standardized test writing composition or techniques.  
Prerequisite: Minimum of "B" in Algebra II (H) and AP Language and Compositions. A TI-84 graphing calculator;

**FC\*/BF\***

**AP2351 & AP2352 (H)**

Signatures of current Math and English teachers and required PSAT Score.

## PHYSICAL EDUCATION

Catholic High School requires 1/2 credit in Personal Fitness and an additional 1/2 credit in any other P.E. course. Additional courses may be taken for elective credit.

**Personal Fitness (Co-Ed)**

**(Gr. 9) Sem 1 or 2**

**9211**

This is an introductory course that provides students with opportunities to develop an individual level of fitness, and to acquire knowledge of physical fitness concepts and the significance of lifestyle on one's health.

**Team Sports I & II (Co-Ed)**

**(Gr. 10-12) Sem 1 or 2**

**9311 & 9312**

The purpose of this course is to provide students with opportunities to acquire knowledge of team sports play, develop skill in the sports of soccer, basketball, softball, flag football and volleyball.

Prerequisites: Personal Fitness; no signature required.

**Football II**

**(Gr. 10-12) Sem 1**

**9712**

This course focuses on the physical and mental skills necessary to compete in Varsity Football on the interscholastic level. Study units include weight-training, basic exercise physiology, sports nutrition and the care and prevention of athletic injuries. Student must be a member of the varsity team in order to enroll in this class.

Prerequisites: Personal Fitness, signature of Coach Adams

**Basketball II**

**(Gr. 10-12) Sem 1**

**9722**

This course provides students with the opportunity to acquire and/or expand their knowledge and skills in basketball. This course is limited to students currently participating in Varsity Basketball. The content will include, but is not limited to, the history of basketball, fundamental techniques, knowledge and application of biomechanical and physiological principles in basketball.

Prerequisites: Personal Fitness and signature of Coach Dimick or Coach Hayes

**Baseball II**

**(Gr. 10-12) Sem 1 & 2**

**9736 & 9732**

This course provides students with the opportunity to acquire and/or expand their knowledge and skills in baseball. This course is designed for students currently participating in Varsity Baseball or students interested in participating in Varsity Baseball. The content will include, but not be limited to, history of baseball, fundamental techniques, knowledge and application of biomechanical and physiological principles in baseball.

Prerequisites: Personal Fitness and signature of Coach LaBounty

**Recreational Sports (Co-Ed)****(Gr.10-12) Sem2****9361**

Recreational Sports is, a dynamic and engaging semester-long course designed to promote physical fitness, teamwork, and a love for sports among students. This course is perfect for students looking to have fun, stay active, and develop their athletic skills in a relaxed and supportive environment.

Prerequisites: no signature required.

**Weight Training III (Co-Ed)****(Gr. 10-12) Sem 1****9631**

This is a co-educational course that provides students with the basic knowledge and skills in weight training. The objective of this course is to improve muscular strength and muscular endurance and to begin to enhance body image.

Prerequisites: Personal Fit. and signature of Coach Kohr.

**Weight Training IV (Co-Ed)****(Gr. 10-12) Sem 2****9642**

This is a co-educational course that provides students with the basic knowledge and skills in weight training. The objective of this course is to improve muscular strength and muscular endurance and to begin to enhance body image.

Prerequisites: Personal Fit. and signature of Coach Kohr.

**RELIGION**

CHS requires the study of Religion by each student each year. Seniors are required by the Religion Department to complete 40 hours of service as a course requirement. All other students are required to participate in various service projects throughout the year.

**Scripture I****(Gr. 9) Sem 1****7117**

The exploration of the Old Testament gives the students a general overview of the bible and then delves deeply into the forty-six books that emphasize God's compassion, mercy, and forgiveness and connects them with the roots of our Catholic faith. This course examines the historical and cultural influences around the authorship and content of the Scripture, mindful of how the Old Testament is crucial to the history of salvation and permeated with the light of Christ. If they have not been taught this earlier, they will learn how to read the bible and will become familiar with the major sections of the Bible and the books included in each section.

**Scripture II (Gr. 9) Sem 2****7215**

As a continuation of the study of the Old Testament, this course offers a complete survey of the four Gospels, the letters of St. Paul, and the universal Catholic letters that helped to define the Church's beliefs about Jesus Christ. The course provides a sweeping view of Christ, both from the understanding of his early followers and the inspired authors of the New Testament and from those in the first centuries who did not believe in Jesus and were his enemies. The students will pay particular attention the Gospels, where they many grow to know and love Jesus Christ more personally.

**The Church – Christ in the World Today****(Gr. 10) Sem 1****725**

This course provides students with an introduction to the fundamental Catholic beliefs pertaining to the Church. Continuing the ideological thread from the freshman courses, this class bridges the life of Jesus to the early Church community of faith and the Church of today.

**Sacraments****(Gr. 10) Sem 2****7224**

The purpose of this course is to help students understand that they can encounter Christ today in a full and real way in and through the sacraments, and especially through the Eucharist. Students will examine each of the sacraments in detail so as to learn how they may encounter Christ throughout life.

**Western Civilization****(Gr. 11) Sem 1****FC/BF****7412**

The purpose of this course is to supply the students with a general knowledge of the Church's history from apostolic times to the present. They will be introduced to the fact that the Church was founded by Christ through the Apostles and is sustained by him throughout history through the Holy Spirit. The students will come to know that the Church is the living Body of Christ today and, as such, has both divine and human elements. In this course, students will learn about the Church's 2,000 years of history and about how the Church is led and governed by the successors of the Apostles.

**World Religions****(Gr. 11) Sem 2****FC/BF****732**

This course allows students to build on their understanding and experience of the Catholic Christian faith by studying different religious traditions. The course begins with a study of Judeo-Christian history, practice, and tradition before expanding to the study of other less familiar religions including Islam, Hinduism, Buddhism, Taoism, Confucianism, and Shintoism. The course includes a Catholic apologetic focus and includes a look at ecumenical or interreligious dialogue between the Catholic Church and each particular religion. Similarities and distinctions in doctrines, traditions, and practices are also explored.

**Foundations of Catholic Social Teaching****(Gr. 11) Sem 2****734**

This course helps students find their place in the community of the faithful as they advocate for charity and justice in the world. Organized around the seven principles of Catholic social teaching. Foundations of Catholic Social Teaching helps students gain a greater understanding of the roots of social teaching in the Church, its context in the Bible and the Catechism and real-life examples of charity and justice in action.

**Philosophy/Moral Theology****(Gr. 12) Sem. 1****FC/BF****7312**

Using the Ten Commandments and the Beatitudes as a foundation, this course helps students understand the moral concepts and precepts that govern the lives of Christ's disciples. This course presents a Christian vision of personhood centered on Jesus, and explores moral

questions not simply as issues to be analyzed but as opportunities for personal growth.

**Sociology/Christian Lifestyles** FC/BF  
(Gr. 12) Sem. 2 742

The purpose of this course is to help students understand the vocations of life: how Christ calls us to live. In this course, students should learn how all vocations are similar and how they differ. The course should be structured around married life, single life, priestly life, and consecrated life. Students should learn what it means to live life for the benefit of others and the value in considering a vocation in service to the Christian community.

## SCIENCE

CHS requires a minimum of 3 credits in Science. Freshmen study Physical Science, Integrated Science, or Earth Science; Sophomores study Biology. Other courses provide additional required and elective offerings.

**Earth Science** FC/BF  
(Gr. 9). Sem 1 & 2 3121 & 3122 (ACP)  
3131 & 3132 (CP) 3141 & 3142 (G)

This course is designed to provide the student with the basic concepts involving the earth, its composition, processes, history and environment in space. Topics included will be the study of geology, meteorology, oceanography, and man's exploration into space.

Prerequisites: Evaluation of student placement data.

**Integrated Science I (H)** FC\*/BF\*  
(Gr. 9). Sem 1 & 2 3151 & 3152 (H)

This course is designed to provide the opportunity to investigate theories and concepts associated with Earth Science, Chemistry, and Physics. Students develop scientific knowledge by formulating questions, carrying out experiments and analyzing data.

Prerequisites: Evaluation of student placement data.

**Physical Science (H)** FC\*/BF\*  
(Gr. 9). Sem 1 & 2 3111 & 3112 (H)

*Honors* Physical Science is a lab-oriented course designed to provide students with first-hand observations of the characteristic properties of matter, combining concepts from a variety of scientific disciplines and providing a fundamental foundation for further studies in science.

Prerequisites: Evaluation of student placement data.

**Biology I (H)** FC\*/BF\*  
(Gr. 10). Sem 1 & 2 3211 & 3212 (H)

This honors course introduces and emphasizes the biological basis of cellular organisms. The evolutionary origins, anatomy, and physiology of members of the six kingdoms form the basis of the course. Also emphasized are the investigative and inquiry methods of study, the scientific method, and scientific experimentation.

Prerequisites: Minimum of a "B" average in Physical Science in the first semester of the current school year and signature of the Physical Science teacher or an "A" in the first semester of Integrated Science and signature from the I.S. teacher.

**Biology I** FC/BF  
(Gr. 10) Sem 1 & 2 3221 & 3222 (ACP)

This course surveys the basics of biology beginning at the cellular level and working up to the six-kingdom classification system. Topics include cellular organization and processes, genetics, bacteria and viruses, protists, fungi, botany, invertebrates, vertebrates, and human body systems.

Prerequisites: Signature of Earth Science teacher.

**Biology I** FC/BF  
(Gr. 10). Sem 1 & 2 3231 & 3232 (CP) 3241 & 3242 (G)

This course surveys the basics of cellular biology, the classification system and members of the six-kingdom system. Included are units on botany, invertebrates, and vertebrates including humans.

Prerequisites: Signature of Earth Science teacher.

**AP Chemistry (H)** FL\*/BF\*  
(Gr. 11-12) Sem 1 & 2 AP3311 & AP3312 (H)

This honors course will include an intensive study of fundamental, theoretical, and experimental principles stressing inductive reasoning in the investigation of chemical systems. Topics to be studied include atomic, molecular and ionic properties, intermolecular forces, chemical reactions, kinetics, thermodynamics, equilibrium, acids and bases, as well as, applications of thermodynamics. Mathematical applications of chemical concepts and applying the AP science practices in inquiry-based laboratory experiences for an essential part of the course. This course is designed for the student who is interested in physical science and/or intends to major in science or engineering.

Prerequisites: Minimum of an "A" average in Algebra II (H) and a minimum of an "A" average in Physical Science (H) of Integrated Science (H); "A" in Honors Biology, Signature of Biology (H) teacher and Math teacher.

**Chemistry (H)** FC\*/BF\*  
(Gr. 11) Sem 1 & 2 3311 & 3312 (H)

This honors course will include an intensive study of fundamental theoretical and experimental principles stressing inductive reasoning in the investigation of chemical systems.

Topics to be studied include atomic theory, structure of matter, periodicity, bonding, chemical reactions and equilibrium, kinetics and solution chemistry. Mathematical applications of chemical concepts and laboratory experience form an essential part of the course.

Prerequisites: Minimum of a "B" average in Algebra I (H) and a minimum of a "B" average in Biology I (H); Signature of Biology teacher and Math teacher.

**Chemistry** FC/BF  
(Gr. 11-12) Sem 1 & 2 3321 & 3322 (ACP)

This general introductory course stresses fundamental chemistry concepts, emphasizes reasoning skills in problem solving, and applies content to daily living. This course is designed to provide preparation and experience for the college-bound student. Topics to be studied include laboratory safety, significant digits, structure of matter, atomic theory, electro structure, chemical bonding, periodicity, chemical nomenclature, writing formulas, chemical reactions, solutions, acids/bases, and mathematical problem solving. Laboratory experiences form an integral part of this course.

Prerequisites: Minimum of a "C" average in Algebra I; taking ACP Algebra II concurrently and minimum of a "C" in Biology (ACP); Signature of current science teacher.

**Chemistry** **FC/BF**  
**(Gr. 11-12) Sem 1 & 2** **3441 & 3442 (CP)**

This course is designed to introduce students to the fundamental principles of chemistry. Topics to be studied include laboratory safety, significant digits, matter, electrons, chemical bonding, periodic table, chemical naming, formula writing, chemical reactions, and acids/bases. The course emphasis on problem solving develops critical thinking skills. Students apply chemical concepts to their daily lives. Laboratory experiences are an integral part of this course.  
Prerequisites: Signature of Biology teacher.

**Anatomy & Physiology I (H)** **FC\*/BF\***  
**(Gr. 11-12) Sem 1** **3511**

This is an Honors course designed to provide an introduction to an understanding of the human body, the structure and function of the cell, skeletal, muscular and nervous systems. Lab experimentation and dissection forms an integral part of the course.

Prerequisites: Minimum of "B" average in Biology I (H) or an "A" average in Biology I (ACP) in the 1st semester of the current school year. Signature of 1st semester Science Teacher.

**Anatomy & Physiology II (H)** **FC\*/BF\***  
**(Gr. 11-12) Sem 2** **3512 (H)**

This course continues the study of the structure and function of the human body, digestive system, respiratory system, circulatory system, endocrine system, and reproductive systems. Lab experimentation and dissection is an integral part of the course.

Prerequisites: Human Anatomy & Physiology I; Signature of first semester Science teacher.

**Genetics (H)** **FC\*/BF\***  
**(Gr. 11-12) Sem 2** **3522 (H)**

This *honors* course will provide an intensive study into the fundamentals of genetics and heredity. Topics will include genetic crosses and probability, the chromosome and gene theory, human genetics, genetic disorders, applied genetics, controlled breeding and cloning. Lab. experience will be included in this class.

Prerequisites: Minimum of a "B" average in Biology I (H) or an "A" average in Biology I (ACP) in the first semester of the current school year or signature of first semester Science teacher.

**Marine Science I** **FC/BF**  
**(Gr. 11-12) Sem 1** **3921 (ACP) 3931 (CP)**

This course introduces the basics of oceanography emphasizing various ecosystems of the ocean including: shorelines, the deep sea, the poles, coral reefs and mangrove swamps.

Prerequisites: Signature of Biology I teacher

**Marine Science II** **FC/BF**  
**(Gr. 11-12) Sem 2** **3922 (ACP) 3932 (CP)**

This course provides an in-depth study of marine animals. Topics will include marine invertebrates, fish, sharks, shark behavior, marine reptiles, and marine mammals. Laboratory study and observation of marine animals forms an integral part of this course.

Prerequisites: Marine Science I; signature of Biology I teacher.

**Environmental Science I** **FC/BF**  
**(Gr. 10-12) Sem 1** **3721 (ACP) 3731 (CP)**

This course is designed to introduce students to major ecological concepts and the environmental problems that affect the world in which they live. Students will learn about technological developments that have created environmental problems as well as the technology that is helping to solve them.

Prerequisites: Signature of first semester Science teacher.

**Environmental Science II** **FC/BF**  
**(Gr. 10-12) Sem 2** **3722 (ACP) 3732 (CP)**

This course will emphasize current issues in environmental science. Topics include: aquatic environments, case studies of waters of the United States, water use, and energy use.

Prerequisites: Signature of first semester Science teacher.

**AP Environmental Science**  
**(Gr. 10-12) Sem 1 & 2** **AP3721 & AP3722 (H)**

AP Environmental Science is a whole year course in which students engage with the scientific principles, concepts, and methodologies required to understand the interrelationships within the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environment science is interdisciplinary, embracing topics from geology, biology, embracing topics from geology, biology, environmental science, environmental science, chemistry, and geography. Students should have completed two years of high school laboratory science, one year of life science and one year of physical science. Also, desirable (but not necessary) is a course in earth science.

Prerequisites: Minimum of "B" average in Physical or Integrated Science (H) or an "A" average in Earth Science (ACP). Minimum B: Average in Algebra I. Signature of 1<sup>st</sup> semester science teacher.

**Principles of Technology I (H) & (ACP)**  
**(Gr. 10-12) Sem 1** **(H) 3621 / (ACP) 3623**

This course will introduce students to the fundamentals of technological modeling focused on production. Students will develop skills in the areas of 3D modeling, 3D printing, Arduino programming with robots, and flight principles with drones. Students will have the opportunity to receive the FAA Part 107 certification that allows outside private use in safe areas. Students who take this class could also take the sequential course of Robotics the following school year. There is an additional component to the course for Honors students.

Prerequisites: Signature of current science teacher. \$30 course fee

## Principles of Technology II (H) & (ACP)

(Gr. 10-12) Sem 2

(H) 3622 / (ACP) 3624

This second semester course will be a continuation of 3D modeling and manufacturing, advanced programming with Arduino or Raspberry Pi, and principles of fluid dynamics that will be applied to underwater robotics. Principles of Technology I is not required for this course. Engineering design process and technical writing will also be included. Students who take this class could also take the sequential course of Robotics the following school year. There is an additional component to the course for Honors students. Prerequisites: Signature of current science teacher. \$30 Course fee.

## Robotics III & IV (H)

Gr. 10-12) Sem 1 or 2

3661 & 3662 (H)

These semester courses are a continuation of 3D modeling and manufacturing, advanced programming with Arduino or Raspberry Pi, and principles of engineering that will be applied to robotics. Engineering design process and technical writing will also be included. Students who take this class could also take the sequential course of Robotics the following school year. There is an extra requirement for Honors students. Prerequisites: Principles of Technology I and teacher signature. \$30 course fee.

## Robotics V & VI (H)

(Gr. 10-12) Sem 1 or 2

3663 / 3664 (H)

Students will have a Capstone semester-long project. Students will play a leadership and mentoring role for Principles of Technology and Robotics students. Students will continue to build skills in the areas of robotic design, programming, construction, marketing, and problem solving. Engineering design process and technical writing will also be included. Involvement in robotic competitions will be a required element of this course and will require after school and competition day participation. There is an extra requirement for Honors students.

Prerequisites: Signature of Robotics III or IV teacher. \$30 course fee

## Physics (H)

FC\*/BF\*

(Gr. 12) Sem 1 & 2

3421 & 3422 (H)

This *honors* course provides students with an introductory study of the theories and laws governing the interaction of matter, energy, and the forces of nature. Topics will include kinematics, dynamics, energy, work and power, heat and thermodynamics, wave characteristics, light, electricity, magnetism, nuclear physics and sound.

Prerequisites: Minimum of a "B" average in Chemistry in the (ACP) first semester of the current school year; concurrent enrollment in Pre-Calculus; Signature of Chemistry teacher.

## AP Physics 1 (H)

FC\*/BF\*

(Gr. 12) Sem 1 & 2

AP3411 & AP3412 (H)

An in-depth study of the natural forces and their interaction with matter will be pursued while observing and discussing kinematics, dynamics: Newton's Law, circular motion and universal law of gravitation, simple harmonic motion, rotational motion, DC circuits, and mechanical waves and sounds. This *honors* course is designed for the student who is interested in physical science and/or who intends a major

in science or engineering. Emphasis is placed on problem solving using the scientific method.

Prerequisites: Minimum of a "B" average in Chemistry (H) in first semester of current school year; concurrent enrollment in Calculus. Signature of Chemistry teacher.

## SOCIAL STUDIES

CHS requires a minimum of 3½ credits in Social Studies. Freshman study World Geography; Sophomores study World History; Juniors study U.S. History; and Senior's study American National Government and Economics. Current Events are emphasized in each Social Studies course.

## World Geography (H)

FC/BF

(Gr. 9) Sem 2

4111 (H)

The basic principles and skills of geography are covered in this *honors* course as well as a survey of the major cultural regions of the world. Emphasis and in-depth study of the historical, political, economic and societal differences of these regions is highlighted, along with the major environmental issues of the day. This course requires additional reading and research. A project will be assigned each quarter.

Prerequisites: Evaluation of student placement data.

## World Geography

FC/BF

(Gr. 9) Sem 1 or 2

4121 (ACP) 4131 (CP) 4141 (G)

The basic principles and skills of geography are covered in this course as well as a survey of the major cultural regions of the world. The historical, political, economic, and societal differences of these regions are highlighted. Map work and grid plotting will be emphasized as well as a study of the major environmental issues of the day. This course requires some additional reading and research.

Prerequisites: Evaluation of student placement data.

## AP World History (H)

FC\*/BF\*

(Gr. 10) Sem 1 & 2

AP4211 & AP4212(H)

This *honors* course considers the important social, political, and economic events in Western and non-Western history. A comparison of cultures, the effects of other countries on our history and way of life, and the lives of prominent people are stressed. First semester covers ancient history through the 1500's. Second semester continues with the French Revolution and concludes with highlights of the 20<sup>th</sup> Century.

This course is intended for students with above average interest and ability in Social Studies and requires additional reading and research.

Prerequisites: Minimum of a "B" average in English I (H) and signature of English I (H) teacher.

## World History

FC/BF

(Gr. 10) Sem 1 & 2

4221 & 4222 (ACP)

4231 & 4232 (CP) 4241 & 4242 (G)

This course studies the important social, political, and economic events in Western and non-Western history. A comparison of cultures and the effects of these civilizations on our own history and way of life are studied. First semester covers ancient history through the 1500's. Second semester continues with the French Revolution and concludes with highlights of the 20<sup>th</sup> Century.

Prerequisites: Signature of current/former Social Studies teacher.

**AP/DE U.S. History (H)** **FC\*/BF\***  
**(Gr. 12) Sem 1 & 2** **AP4351 & AP4352**

AP U.S. History integrates political, social, economic, cultural, diplomatic, and intellectual history in order to convey the experiences of particular groups within the broader perspective of the American past. AP U.S. History is a demanding introduction to American History and culture that assumes a high level of interest and competence. Because this course is equivalent to a first-year college course, students should expect that the challenge level and assignments will be commensurate with college history courses. The analytical thinking, writing, and reading skills that students develop in AP U.S. History will equip them for college and lifelong learning. Students may receive three college credits per semester for this course through PSC.

Prerequisites: Minimum "B" average in AP Economics. Signature of current Social Studies teacher.

**American History** **FC/BF**  
**(Gr. 11) Sem 1 & 2** **4321 & 4322 (ACP)**  
**4331 & 4332 (CP) 4341 & 4342 (G)**

This course covers important political, economic, and social events in U. S. History. Emphasis will be placed upon 20th Century events and upon the U.S. interaction with and dependence upon other nations of the World. First Semester covers U.S. History from the Civil War through the Great Depression. Second semester begins with the decade of the 1930's and continues through the Reagan years.

Prerequisites: Signature of Social Studies teacher.

**AP American Government** **FC\*/BF\***  
**(Gr. 11) Sem 2** **AP4411 (H)**

This course is designed for highly motivated junior honors students who seek a deeper understanding of our unique American Political system. The course will teach the foundations of the American political system from both an analytical and a theoretical perspective.

Prerequisites: Minimum "B" average in AP World History. Signature of World History teacher.

**American National Government** **FC/BF**  
**(Gr. 12) Sem 2** **4421 (ACP) 4431 (CP) 4441 (G)**

This course covers the basic structure of the federal government including branches of government, the rights and duties of citizens, the political party system and elections, the role of public opinion, and American diplomacy. Special emphasis is given to the writing of the Constitution. The role of the American citizen is studied in relation to the basic institutions of our political system. The study of international relations comprises a segment of the course through the analysis of current events.

Prerequisites: Signature of current Social Studies teacher.

**AP Macro Economics (H)** **FC\*/BF\***  
**(Gr. 11) Sem 1** **AP4412 (H)**

AP Macroeconomics students learn why and how the world economy can change from month to month, how to identify trends in the American economy, and how to use those

trends to develop performance measures and predictors of economic growth or decline. They will also examine how individuals and institutions affect people, and how those factors impact employment rates, government spending, inflation, taxes, and production. AP Macroeconomics prepares students for the AP Macro Economics Exam.

Prerequisites: Minimum "B" average in AP World History or an "A" average in World History (ACP) in the first semester of the current school year and signature of World History teacher. In Math, students must be signed into Algebra II (H) or higher.

**Economics** **FC/BF**  
**(Gr. 12) Sem 1** **4422 (ACP) 4432 (CP) 4442 (G)**

This course studies the basics of economics including supply and demand, economic cycles, comparative economic systems, government taxation and fiscal policies, banking including Federal Reserve System, and government regulation of economic activity. Sometime will also be spent on personal financial management.

Prerequisites: Signature of 11th grade American History teacher.

**Humanities I (H)** **4511 (H)**  
**(Gr. 11-12) Sem 1**

The purpose of this course is to enable students to examine, understand, and respond to creative efforts of individuals and societies through interdisciplinary study of the arts and their connections to areas such as history, literature, philosophy, and religion.

Prerequisites: B or higher in AP World History OR B or higher in honors level English course with Social Studies teacher signature.

**Law Studies** **FC/BF**  
**(Gr. 10-12) Sem 1** **6711 (ACP)**

Students learn that the American legal system is the foundation of American society. In order to function effectively, students examine those laws that have an impact on citizens' lives and are provided with an introduction to fundamental civil and criminal justice procedures.

Prerequisites: No signature required.

**Marketing** **6712 (ACP)**  
**(Gr. 10-12) Sem 2**

This course is a brief introduction to marketing and the nine steps of the marketing formula.

Prerequisites: No signature required.

**AP Psychology** **AP4431 & AP4432**  
**(Gr. 11-12) Sem 1 & 2**

This course will explore the ideas, theories, and methods of the scientific study of behavior and mental process. Students will examine the concepts of psychology through reading and discussion and will analyze the data from psychological research studies.

Prerequisites: Student must be a junior or senior. Students must have a "B" average in previous AP/Honors level social studies OR must an "A" average in previous ACP level social studies. Must obtain signature from Mr. Gulig.

## TECHNOLOGY DEPARTMENT

CHS requires all students to complete one 1/2 credit course, Digital Literacy. Numerous additional Technology elective courses are available. Three of the technology courses offered each semester will prepare students to complete professional certification exams.

### Digital Literacy

(Gr. 9) Sem 1 6121

This course is designed to equip students with many of the needed skills to excel in a digital world. Students will be taught a broad range of concepts and skills from basic hardware/software concepts and configurations to diverse applications as well as the appropriate use of the internet. These include, but are not limited to: digital study skills, keyboarding, laptop care and maintenance, digital citizenship, multimedia design, short film production and basic coding.

Prerequisites: \$30 course fee

### Advanced Digital Literacy (H)

(Gr. 9-12) Sem 1 6141(H)

This course is designed for students who have demonstrated mastery of the basic use of digital technology. Students in this class will be introduced to a broad range of advanced software/hardware concepts. These include digital citizenship, keyboarding, multimedia design, film production, cybersecurity, and coding.

Prerequisites: \$30 course fee.

### Introduction to Computer Science

(Gr. 10-12) Sem 2 6651 (H) 6652 (ACP)

This course is an entry-level computer programming course, designed to teach students basic object-oriented programming, theories, and strategies using a graphical and animated approach to learning. These strategies include problem solving, data types and variables, conditional statements, and looping. This course is specifically designed for students with no prior programming experience.

Prerequisites: Completion of Digital Literacy and signature of current H/ACP Math Teacher; \$30 course fee.

### Introduction to Technology

(Gr. 10-12) Sem 1 or 2 6811 / 6812 (H/ACP)

Introduction to Technology addresses technology as being a vehicle for problem solving, communication, and personal expression. The course will explore the impact of technology on society as well as teaching programming network and internet, Javascript, graphics, and cyber hygiene.

Prerequisites: Completion of Digital Literacy and signature of current H/ACP Math teacher; \$ 30 course fee

### Video Game Design

(Gr. 10-12) Sem 1 or 2 6821 / 6822 (H/ACP)

Video Game Design teaches the foundations of creating video games in JavaScript. The curriculum teaches the foundations of programming logic with the emphasis on the use of Java Script in producing video games.

Prerequisites: Completion of Digital Literacy and signature of current H/ACP Math teacher; \$30 course fee

### App Development I

(Gr. 10-12) Sem 1 or 2 6218 (ACP)

This course introduces students to programming technologies, design and development related to applications. Topics include accessing device capabilities, industry standards, operating systems, and programming for mobile and computer applications. Please use this link (<https://www.pensacolachs.org/tech>) to obtain more information about this course.

Prerequisites: Completion of Digital Literacy and signature of current H/ACP Math Teacher; \$30 course fee

### App Development II

(Gr. 10-12) Sem 1 or 2 6228 (ACP)

This course is designed for students who have demonstrated mastery of basic app development. This course has an in-depth focus and emphasis on software development. Integrated development tools, software development kits, and software subsystems are to be employed to develop databases, mobile and computer applications. Please use this link (<https://www.pensacolachs.org/tech>) to obtain more information about this course.

Prerequisites: Completion of App Development I and signature of the App Development I teacher; \$30 course fee.

### Cybersecurity I

(Gr. 10-12) Sem 1 or 2 6119 (H) 6219 (ACP)

This course will teach trends in cybersecurity development, explaining why it is important, its purpose, and how it is used to secure data. Students will evaluate the trends and patterns that will determine the future state of cybersecurity and will work in a lab-based environment to critique and assess the strengths and weaknesses of general cybersecurity models. Please use this link (<https://www.pensacolachs.org/tech>) to obtain more information about this course.

Prerequisites: Completion of Digital Literacy and signature of current H/ACP Math Teacher; \$30 course fee.

### Cybersecurity II

(Gr. 10-12) Sem 1 or 2 6129 (H) 6229 (ACP)

The goal of this course is to teach advanced knowledge of cybersecurity to help in identifying and stopping various cyber threats. Students will continue to build upon concepts covered in Cybersecurity I, including an in-depth analysis of TCP/IP, network security, operating system security, and basic cryptography. Please use this link (<https://www.pensacolachs.org/tech>) to obtain more information about this course.

Prerequisites: Completion of Cybersecurity I and Signature of Cybersecurity I teacher; \$30 course fee.

### AP Computer Science Principles

(Gr. 10-12) Sem 1 & 2 AP6211 & AP6212 (AP)

This course introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. With a unique focus on creative problem solving and real-world applications, AP Computer Science Principles prepares students for college and career.

Prerequisites: Completion of Digital Literacy and signature of current H/ACP Math Teacher; \$30 course fee.

