

ARCHBISHOP JOHN CARROLL

HIGH SCHOOL

2019-2020 COURSE CATALOG

Course Descriptions

2019-2020

INTRODUCTION

Archbishop John Carroll High School is committed to excellence in the areas of spiritual, academic, and social development.... With Christ as our model, the school accomplishes this challenge through the dedication of a professional staff who educate the students by implementing innovative and competitive methodologies (Mission Statement). Our broad-based curriculum is adapted to the student's level of intellectual capacity. We hope to instill in our students the lifelong necessity of personal faith, scholastic achievement and social involvement (Philosophy Statement).

This academic information catalog is a vehicle, which helps demonstrate our living witness of our Mission and Philosophy as it is experienced throughout our curricular offerings. It has been prepared to assist in the course selection process.

The selection of courses is a responsibility that requires time, patience and careful consideration. It is important that the course selection process be made with input from those qualified to assist with it. Involvement of the following individuals will help ensure an appropriate selection of courses:

The Student must evaluate honestly personal abilities and potential, aptitudes and achievements, needs and interests.

Parents should engage the student in a frank discussion on the previous considerations in order to reach a collective decision that will best serve the child's educational welfare.

Teachers, past and present, are good sources of advice since they have witnessed firsthand the scholastic performance of the student. Teachers of courses being considered know the academic demands of these courses and the level of performance expected of the student.

Guidance Counselors are well informed about the general college and career requirements necessary to attain specific goals.

ACADEMIC REQUIREMENTS

All **Freshmen MUST** select six majors.

ONE EACH ASSIGNED FROM

Theology
English
Mathematics
Science
Social Studies

SELECT ONE FROM AMONG

World Language I
Skills Development

Freshmen are also assigned Physical Education/Health and Fine Arts Appreciation.

Students who are rostered for Band, Chorus, Piano Lab or Strings defer Physical Education and Health

Students who are rostered for Art defer World Language to Sophomore Year.

Freshmen must carry 7.0 credits.

All **Sophomores MUST** select six majors.

ONE EACH ASSIGNED FROM

Theology
English
Mathematics
Science
Social Studies
World Language I or II

SELECT ONE FROM (Electives)

Business/Technology
Fine Arts
Latin
Mathematics
Science
Social Studies

Sophomores must carry 6.5 or 7.0 credits.

All **Juniors MUST** select a minimum of six majors.

ONE EACH ASSIGNED FROM

Theology
English
Social Studies
Science
Mathematics (Alg. II)

SELECT AT LEAST TWO FROM AMONG

Business/Technology Education
Fine Arts
Mathematics (Pre-Calc or higher)
World Language

All **Seniors MUST** select six majors; only seniors with permission of the Principal will be permitted to take five majors. **Seniors must take a third requirement of either Science, Math, or Comparative Government.**

ONE EACH ASSIGNED FROM

Theology
English

SELECT AT LEAST FOUR FROM AMONG

Business/Technology Education
Fine Arts
Mathematics
Science
Social Studies
Special Programs
World Languages

GRADUATION REQUIREMENTS

In accordance with the requirements established by the State of Pennsylvania Department of Education and those of the Archdiocese of Philadelphia, a diploma is awarded to Archbishop John Carroll High School students for the successful completion of the prescribed course of studies. *A student who completes four years at Archbishop John Carroll High School currently earns a minimum of 25.50 credits in grades 9 through 12 as follows:*

4.00	credits	THEOLOGY
4.00	credits	ENGLISH
3.00	credits	SOCIAL STUDIES
3.00	credits	MATHEMATICS
3.00	credits	SCIENCE
2.00	credits	WORLD LANGUAGE
0.50	credits	HEALTH/PHYSICAL EDUCATION
0.50	credits	BUSINESS/COMP APPLIC.
0.50	credits	FINE ARTS
5.00	credits	ELECTIVES
25.50	credits	TOTAL

ACHS does not graduate students on total credits alone. All other requirements must be fulfilled. A student must earn a passing grade (70) in all courses (major, minor, required, elective, semester) to receive credit and to continue his/her education at Archbishop John Carroll High School. Failed courses may not be repeated; they must be converted to a passing grade through satisfactory completion of coursework in Diocesan Summer School.

COURSE LEVELS AND ABILITY GROUPING

The placement system is designed to place students in classes according to ability and achievement. Placing students enables classes to be taught on the basis of difficulty of subject material and the ability of the students taking the course. It is possible for a student to be in different levels for different subjects. Also, a student is not locked into a particular level for all four years; ability level changes, when required and recommended by the teacher, may be made for the next school year. Once the academic year begins, a student's placement is changed only for serious and compelling reasons, as determined by the department chair and the Assistant Principal for Academic Affairs.

Archdiocesan Ability Grouping Policy: Archbishop Carroll High School and all diocesan high schools are expected to comply with the grouping policy issued by the Office for Catholic Education. Over ninety-nine percent of Carroll students, Class of 2014, matriculated in college; our curriculum is college preparatory, regardless of track.

The approved curriculum guidelines for the Secondary School System differentiate among the following academic levels:

- AP - Advanced Placement* and Diocesan Scholars' courses: college-level courses
- Honors - Courses for the student of exceptional ability and performance
- College Prep - College Preparatory courses for the student of above-average ability and performance
- Academic - College Preparatory courses for the student of average ability and performance

***AP Courses:** This is a structured program of college level courses and examinations for secondary school students. The program is administered by the Educational Testing Service (College Board). In the operation of its testing programs, the College Board contracts with the Educational Testing Service (ETS), with headquarters in Princeton, New Jersey. **All AP students are required to take the Advanced Placement examination in May;** there is a fee (approximately \$95 per test) charged by the College Board. Over 90% of the colleges nationwide award college credit to high school students who achieve an acceptable examination grade. Archbishop Carroll High School offers twenty-four AP courses, as outlined in the departmental offerings. **Students are admitted to AP courses based on aptitude, standardized test results, previous performance, prior sequential courses, teacher recommendation, and department chair approval.**

THE NINTH-GRADE PLACEMENT PROCESS

At the time of registration, each incoming freshman has an opportunity to indicate World Language preference—Spanish or French. Theology, English, Mathematics, Science, and Social Studies are all required courses for freshmen. The Office for Academic Affairs, working with the department chairs and the elementary schools, places each freshman in a specific level for each of these subjects.

The Placement of freshman students is the result of several factors, which are incorporated into a computerized formula. The basis for our placement begins with the *seventh grade final marks, the eighth grade first trimester marks,* and the results of the *Terra Nova Standardized Test* administered in the spring to all seventh graders in our parish schools. Each academic department at Archbishop John Carroll High School weights these marks and scores to develop an index intended to predict the success the student may experience in that department.

For example, the English Department emphasizes the English, Reading and Spelling marks from seventh and eighth grades, as well as the standardized test scores showing vocabulary and reading comprehension, language mechanics and expression, spelling and study skills. Other departments may consider different variables. Thus a student's English index might differ from the Math index, so the levels for those two subjects could be different.

The eighth-grade teachers in our parish schools are offered the opportunity to make placement recommendations; these recommendations are reviewed by Carroll's department chairs and the Assistant Principal for Academic Affairs.

COURSE SELECTION FOR THE UPPER CLASSES

In February, Freshmen, Sophomores, and Juniors begin the course selection process for the following year. Each student is encouraged to review thoroughly the online **Academic Brochure** (which lists the course offerings) and an individualized Course Selection Profile, on-line, through the Grade Connect Program. On this profile are the required courses and electives recommended by the school in light of the student's academic performance to date. For example, the Science course reflects the level recommended by the school; the electives listed are based on the courses already taken by the student. Parents should make sure that they are involved actively in this process. If the courses desired appear on the course selection profile, no further permissions from the school are required. The signed form downloaded from Grade Connect is to be submitted together with the Registration Fee. Student and parent signatures indicate a commitment to both course and level, as designated by the third digit in the course number. To register for a course not on the course selection sheet, or to take a course listed but in a different level, requires an Exception Form. These forms are available from the Academic Affairs

Office, and require your signature as well as signatures from Carroll's academic personnel. At a parent's request, a student may be permitted to take a course not recommended by the school, but a record of this request over the school's recommendation is kept on file.

Students who register after the deadline often lose opportunities to take elective courses, since in rostering for these courses priority is given to those who registered on time.

ADVICE FOR COLLEGE-BOUND STUDENTS

COURSES

Challenge yourself with as demanding and well rounded a curriculum as is possible and prudent, giving priority to English, Mathematics, Science, Social Studies and World Language. Students need to be aware of strengthening the schedule by selecting seven majors when possible; no student should take less than six classes per semester.

Choose courses appropriate to any specific interest you may have, for example: if you are interested in engineering, nursing, or any other math-science related area, you should develop considerable ability in Math; you should choose four years of Math and Science. If you are interested in Humanities (writing, teaching, researching, etc.) you should develop proficiency (4 years) in World Languages and Social Studies. If you are interested in Business Administration you should consider electives such as Accounting, Finance and/or Computer Applications as prerequisites for these courses in college.

A course in computer applications may be helpful for the college-bound student who will need to prepare computer-generated reports. In addition, it will provide an opportunity for part or full-time employment and is the entry into the use of computers in the growing information systems field.

Students preparing to enter the Business world should avail themselves of as many "skill" courses as possible—remembering, too, that basic math, a good vocabulary and a firm understanding of grammar are essential in any job.

SCHEDULING CONFLICTS

Should a student choose a course for which he/she is under qualified or overqualified, the school administration reserves the right to make adjustments to the roster. The administration also reserves the right to cancel any course or to merge a multi-level offering into one, if insufficient numbers of students enroll for a course or if qualified personnel are not available for the next school year. Every reasonable effort will be made to discuss such adjustments with all concerned before finalizing the roster. However, if such efforts prove fruitless, the decision will be made at the discretion of the Assistant Principal for Academic Affairs.

COURSE CHANGES

All courses and levels for the academic year are selected by the student and approved by parents and teachers during the spring of the previous year. If a parent or guardian has any questions regarding the course selection process, they are welcome to reach out to the Office for Academic Affairs with any questions during the course selection period. For this reason, levels and courses (including electives) are not changed, added, or dropped in September. In exceptional cases, and for valid reasons, Archbishop John Carroll High School permits limited roster changes in August. At the end of the second cycle of classes (twelve days), the roster conflict and change process is concluded. The steps in the roster change process are meant to ensure that the change is really in the student's best interest, that individual class size and total teacher load are not compromised, and that a "domino effect" is not produced involving course changes or ability level changes in subjects other than the one requested.

Therefore, requests for the following reasons are generally unacceptable:

- Dissatisfaction With a Course/Teacher/Schedule
- Change of Mind
- Desire for Early Dismissal/Accommodation for Work Schedule
- Desire for a Different Lunch or Study Period

During the designated time in August, students may obtain and complete roster review forms. There is a fee for the application, which will be refunded if the change cannot be made. This charge is meant both to emphasize the seriousness with which roster changes should be requested, and to offset the real costs involved—updating the database and producing new rosters for the student and the various school offices. The student is notified upon return to school in September if the request is approved or denied.

COURSE NUMBERS

Each course is assigned a **3-digit number**. The first digit indicates the department. Generally, the second digit indicates the year the course is offered, and the third digit, the track level; exceptions are made for some special courses such as the Principles and Practice of the Exceptional Learner where the third number is an “8”. After the **Master Schedule** is completed for a given academic year, two numbers are added to the original course number. These two numbers indicate the section of that particular course. For example,

Course **#323-01** means: **3**--Department—Mathematics
2--Year--Second Year (Sophomore)
3--Level--3 – College Prep (Average ability)

COURSE NUMBERS	DEPARTMENT
000	PHYSICAL EDUCATION/HEALTH
100	ENGLISH
200	SOCIAL STUDIES
300	MATHEMATICS
400	SCIENCE
500	WORLD LANGUAGE
600	BUSINESS AND TECHNOLOGY EDUCATION
700	SPECIAL PROGRAMS
800	FINE ARTS
900	THEOLOGY

EDUCATIONAL INTEGRITY

Integrity is that quality by which a person is true to his/her convictions in the face of opposition. It is a value that Archbishop John Carroll endorses; a value we encourage our students to adopt. Consequently, any student who violates educational integrity and engages in cheating, plagiarizing, or stealing is subject to both academic and discipline penalties.

Cheating is defined as the giving, receiving or copying of information for class work, homework, reports, projects, quizzes, tests or examinations.

Plagiarizing is defined as the submitting of work that is judged not to be one's own.

Stealing is defined as the taking, copying or examining of a teacher's academic materials.

The penalties for Cheating, Plagiarizing and Stealing may include:

1. A failure (zero) in the class work or homework assignment, report, project, quiz, test, or examination thereby resulting in an automatic lowering of the quarter, semester and final grades. In some cases, the student will have the opportunity to perform an alternate assessment at a reduced maximum grade.
Demerits/Detention at the discretion of the teacher and Assistant Principals for Academic Affairs and Student Services.

These policies and procedures may be set forth by a specific subject area/department, and they are expected to be followed at all times.

GRADING

The highest report card grade that may be given is 100; the lowest passing grade is 70; and the lowest recorded failing grade is 60.

The **QUARTER GRADE** is determined by the teacher and may include major tests, projects, quizzes, papers, homework, and classroom participation. At least four major marks are included in the quarter grade; major tests are distributed over the quarter and returned to the student in a timely fashion so that the student is aware of his or her progress. A final exam/assessment is required for each course. Teachers are not obligated to give make-up work or tests to students who miss school time to go on vacation.

The **SEMESTER GRADE** is the average of the two quarters. First semester [average of first quarter and second quarter]; Second semester [average of third quarter and fourth quarter].

The **FINAL GRADE** is the average of the two semester grades: first semester = 45%; second semester = 45%; final exam = 10%. For semester-long, 0.5 credit courses: first quarter grade = 45%; second quarter = 45%; End of Course assessment = 10%

Students who alter or forge the report card are liable for detentions and/or demerits.

PROGRESS REPORTS AND FAILURE WARNINGS

Progress reports are issued at the midpoint of each quarter. These reports provide teachers with the opportunity, if they choose, to comment on a student's academic performance. Additionally, in keeping with Archdiocesan policy, failure warnings for a semester or final failure are indicated on the Progress Report. Although instructors are not obligated to issue failure warnings for the quarters, they are encouraged to keep parents aware of scholastic difficulties. A failure warning may be issued later in the marking period if the student's academic performance deteriorates dramatically. Failure to complete a significant and required component of a course will result in an Incomplete. Incompletes not converted to passing grades within a timely fashion become failures. Parents are strongly encouraged to review progress reports with their students and contact any teachers with any questions or concerns they might have.

REPORT CARDS

Report cards are processed electronically four times a year. In addition to grades, the report cards provide an opportunity for teacher comments; the report also contains the student's absence, lateness, and conduct history. Report cards are distributed to students in November, February, and April; final

reports are mailed to parents at the end of June. Pastors of Roman Catholic parishes receive copies of their students' academic reports. Only the first semester grade and the final grade in June appear on the student's permanent record. The record of absence and lateness (but not conduct) is also part of

the permanent record.

PARENT-TEACHER-STUDENT MEETINGS

When a failure occurs or poor performance is indicated, the parent(s) and student are requested to meet with the teacher. These meetings are scheduled at a mutually agreed upon time by the teacher and parent. One Parent-Teacher-Student meeting is provided on the calendar by the school at the end of the first marking period. They provide the opportunity for all parties involved to discuss the steps required for the student to improve his/her grades. Parents should contact the individual teacher to schedule such meeting if it occurs outside of the first marking period.

HONORS

The Honor Roll is determined by general average; course level is **not** considered. The numerical grade is meant to indicate whether or not the student is working to his or her ability level; it is independent of the course level.

To attain **first honors recognition**, a student must have a general average of 93 with no grade lower than 90 in any subject (required or elective, major or minor).

To attain **second honors recognition**, a student must have a general average of 88 with no grade lower than 85 in any subject (required or elective, major or minor).

First and Second Honors are calculated on a quarterly basis and will not include semester assessments or the semester average.

CLASS RANK AND QUALITY POINTS

Class Rank is determined by weighted Quality Point Average, which gives greater "weight" to more difficult courses in the higher levels. The weighting is accomplished by assigning quality points to each mark (first semester or final grade) according to the level of the course, as outlined in the accompanying Quality Points Table. The student who ranks first in the class has the highest Quality Point Average (total quality points divided by adjusted credits as determined by the Archdiocese). Two types of class rank appear on the first semester and final report cards:

Current Rank: Class rank based on a student's performance during the current year.

Cumulative Rank: Class rank based on a student's total performance over all years.

QUALITY POINTS

GRADE	AP College Courses	HONORS Honors	COLLEGE PREP Above- Average	ACADEMIC Average	Stan dard
100	54	48	44	40	36
99	53	47	43	39	35
98	52	46	42	38	34
97	51	45	41	37	33
96	50	44	40	36	32
95	49	43	39	35	31
94	48	42	38	34	30
93	47	41	37	33	29
92	46	40	36	32	28
91	45	39	35	31	27
90	44	38	34	30	26
89	43	37	33	29	25
88	42	36	32	28	24
87	41	35	31	27	23
86	40	34	30	26	22
85	39	33	29	25	21
84	38	32	28	24	20
83	37	31	27	23	19
82	36	30	26	22	18
81	35	29	25	21	17

80	34	28	24	20	16
79	33	27	23	19	15
78	32	26	22	18	14
77	31	25	21	17	13
76	30	24	20	16	12
75	29	23	19	15	11
74	28	22	18	14	10
73	27	21	17	13	9
72	26	20	16	12	8
71	25	19	15	11	7
70	24	18	14	10	6
69	23	17	13	9	5
68	22	16	12	8	4
67	21	15	11	7	3
66	20	14	10	6	2
65	19	13	9	5	1
64	18	12	8	4	0
63	17	11	7	3	0
62	16	10	6	2	0
61	15	9	5	1	0
60	14	8	4	0	0

TRANSFER STUDENTS

Transcripts of a student who transfers to Archbishop Carroll are reviewed and subject to grade conversion following Archdiocesan guidelines for Academic Standing using the quality point table and the following conversion table:

This conversion table is also used for any class that uses an Alpha grade system including Diocesan Scholars.

A +	99	C +	79	F	65
A	96	C	76		
A -	93	C -	73	P	85
B +	89	D +	72		
B	86	D	71		
B -	83	D -	70		

This conversion table is also used for any class that uses an Alpha grade system including Diocesan Scholars.

GRADE POINT AVERAGE (GPA)

The GPA will be calculated based on the final grade per course using the weighted scale below. Each course receives a GPA value and then the average GPA of all courses is calculated. The GPA will be reported on the transcript. Semester-long and quarter-long courses will be counted into the GPA.

Final Course Grade	AP	Honors	College Prep & Academic
90-100	4.3	4.1	4.0
80-89	3.3	3.1	3.0
73-79	2.3	2.1	2.0
70-72	1.3	1.1	1.0

ACADEMIC INELIGIBILITY FOR ATHLETICS

If a student fails two or more subjects at the quarter he/she is not eligible for fifteen (15) days. Once the fifteen days have expired, the STUDENT must contact the athletic office for an academic review card. The STUDENT must then get his/her teachers to sign this card indicating failing or passing grades. If the student is failing less than two courses he/she is again eligible. Please note that all courses are considered, not just the original failed courses. This process must be done each week for the REMAINDER OF THE QUARTER. If the student fails to return the eligibility card on any given week, he/she is ineligible.

ACADEMIC FAILURES AND SUMMER SCHOOL POLICIES

A final failure for the school year means that the average of the first and second semester grades is below 70; it is a judgment by the teacher that the student has not worked to the best of his or her ability.

Archdiocesan policy stipulates that **seniors with final failures** (major or minor, required or elective) for the school year **do not participate in the baccalaureate or graduation exercises**. Seniors with any failures for the year (including one-semester courses) must successfully make up those failures in Diocesan Summer School in order to receive the diploma.

Underclassmen with one or two failures for the year must successfully make up those failures in Diocesan Summer School in order to return to Archbishop John Carroll High School in September. Students with three or more academic failures for a final grade are subject to dismissal. Students who have failed two or more classes in consecutive school years are also subject to dismissal. Archdiocesan regulations also state that students with excessive absences do not successfully complete the school year until they make up the time they have missed in Diocesan Summer School. This applies even if the student has no academic failures; in this case, the student attends the classes in which he or she received the lowest grade.

Diocesan Summer School is held online through a program called **Educere**. Students who fail any courses for the school year will meet with the school administration during the last week of the school year to be given registration information for summer school. It is the **STUDENT'S** responsibility to register for summer school. Classes begin on the following Monday and extend until the second week of August. There is a registration fee and an additional fee for each subject; these fees must be paid at the time of registration.

ACADEMIC PROBATION AND DISMISSAL

Students who receive three or more scholastic failures for a final grade are subject to dismissal. Any student with two failures at the end of the school year is to be put on academic probation. If he/she has two final failures while on probation, that student is liable for dismissal. If he/she has one final failure while on probation, that student will remain on probation.

Twelfth grade students who would be dismissed under this policy may attend diocesan summer school to clear the two failures and thus be given a diploma if they pass summer school courses.

Ninth grade students with five failures at the end of the first semester are liable for dismissal. Tenth, eleventh, and twelfth grade students with four failures at the end of the first semester are liable to dismissal. Students on probation who have three failures at the end of the first semester are liable to dismissal.

According to Archdiocesan policy, any student with final failures who does not attend Diocesan Summer School and earn a passing grade is prohibited from returning to or transferring to an Archdiocesan secondary school. Failed courses may not be retaken the following year. The Principal, in consultation with the Administration, reserves the right to the final decision regarding dismissal.

DEPARTMENT CHAIRS

BUSINESS, COMPUTERS & IT	Mr. Devin Gallagher
ENGLISH	Mrs. Julia Young
FINE ARTS	Mrs. Loraine Carpenter
GUIDANCE	Mrs. Jen Kelly
MATHEMATICS	Mr. Billy Mitchell
PHYS. ED./ HEALTH	Mr. Daniel Keehn
SCIENCE	Mrs. Judith Owens
SOCIAL STUDIES	Mr. Eugene Murphy
THEOLOGY	Mr. Matthew Wayock
WORLD LANGUAGE	Mrs. Audrey Bourgeois

BUSINESS, COMPUTERS, & INFORMATION TECHNOLOGY CURRICULUM

The Business and Technology Education Department views the curriculum offerings of its department as having three objectives: first, to offer basic instruction to those who wish to specialize in business areas in college; second, to equip students with special vocational skills enabling them to become wage earners; third, to provide a background of business understanding and knowledge of economics for personal use in our society.

622 Introduction to Business

6 ppc 1.00 cr CP Gr. 10, 11

Introduction to Business introduces students to the world of business and prepares them for the economic roles of consumer, worker, and citizen. An overview of personal finance, accounting, marketing and economics are provided to students to help them determine their interests in the business world. Students gain valuable information and skills needed in the workplace. This course teaches students the business and academic skills needed to build and manage a successful 21st century business. Topics covered include the characteristics of an entrepreneur, discovering entrepreneurial opportunities, and researching and analysis of domestic and global market trends. The development of a business plan is emphasized.

691 BROADCAST JOURNALISM AND VIDEO PRODUCTION

6 ppc 1.00 cr Honors Gr. 11, 12

Prerequisite: Students registering who have not completed 621 Broadcast Journalism must submit a video demonstrating their starting skillset.

This course introduces the concepts of journalism, reporting, and the functions of the news in our society. Students will learn the fundamentals of non-narrative video production and editing, how to conduct an interview and report on newsworthy information, and the operations of a live TV broadcast. The broadcast

journalism class is ideal for students interested in video production but has never had the opportunity to work with proper equipment and software. **Students interested in this course should be prepared for**

consistent group work that may frequently need to be completed outside of course time.

631	HONORS ACCOUNTING I	6 ppc	1.00 cr.	Honors Gr. 11, 12
632	ACCOUNTING I	6 ppc	1.00 cr.	CP Gr. 11, 12

This course covers basic Accounting Theory, which deals with recording, classifying, summarizing and interpreting financial data for both service and merchandising business organized as sole proprietorships and partnerships. This course is recommended for students planning to major in Business Administration in college or for those interested in applying accounting skills in business.

642	DESKTOP PUBLISHING & WEB DESIGN	6 ppc	1.00 cr.	CP Gr. 11, 12
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This course introduces students to the fundamentals of web page development and basic image manipulation for business. Students will use code editors to learn HTML and CSS to construct both personal and business websites based upon their own designs as well as using frameworks such as Bootstrap. We will also create a variety of marketing and business materials using Adobe Photoshop. Topics taught in Photoshop include typography, image manipulation, photo restoration, vector graphic creation, and image composition.

671	FILM PRODUCTION AND CINEMA STUDIES	6 ppc	1.00 cr	Honors, Gr. 11, 12
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Prerequisite: Students registering who have not completed 621 Broadcast Journalism must submit a video demonstrating their starting skillset.

This course provides students with a creative environment to cultivate and develop filmmaking and video production skills. Students will learn proper video production techniques including screenwriting, camera operations, composition, audio recording, lighting and editing by making a variety of media pieces including narrative short films, documentaries, editorial pieces, and more. We will also analyze and critique works from the industry's innovators and legends to better understand film theory and cinematic technique. **Students interested in this course should be prepared for consistent group work that may frequently need to be completed outside of course time.**

- 681 PERSONAL FINANCE** **6ppc 1.00 cr Honors, CP Gr. 11,12**
- 682** Students will learn how to succeed in a highly competitive, technical society. The National Standards for Personal Finance will be the basis of the course. Topics to be covered include career planning, payroll, taxes, budgets, checking and banking accounts, saving and investing for the future, investing in stocks and bonds, credit management, resource management, risk management, insurance, consumer rights and responsibilities and dispute resolution. Students will learn firsthand how the economy works
- 692 INTRODUCTION TO COMPUTER PROGRAMMING** **6 ppc 1.00 cr. Honors Gr. 11, 12**
 This course introduces students to fundamental programming concepts and terminology via Alice, a 3D animation program designed to teach the basics of computer programming and logic. Students will use conditionals, arrays, Booleans, for loops and other programming concepts to create narrative 3D animations, interactive adventures, and even games. Once we have mastered these concepts students will begin to develop basic computational programs outside of the Alice environment. This course is ideal for students interested in computer science degrees or certification programs.

ENGLISH CURRICULUM

The English Department offers students a comprehensive program, which includes skill development in critical thinking, writing, reading, listening, speaking, and research. The primary difference between track levels is the pace of instruction and the amount of material.

English Language Arts I:

Critical Reading, Writing, and Speaking supported through Genre Studies

- 111 HONORS ENGLISH LANGUAGE ARTS I** **6 ppc 1.00 cr. HON Gr. 9**
Prerequisites: 7th and 8th grade Reading and Language Arts of 90+, Terra Nova percentile of 90+, CSI of 120+, 8th grade teacher recommendation. A final average of 85+ is required for retention in the Honors Program after Freshman year.
- 112 ENGLISH LANGUAGE ARTS I** **6 ppc 1.00 cr. CP Gr. 9**
 English Language Arts I is required course for all ninth grade students. Based on the National Common Core Standards, this course provides students with the skills and knowledge to become critical readers and writers by analyzing key ideas and details, craft and structure, and the integration of knowledge and ideas in literature and informational text. Students will develop their writing skills by examining text types and purposes and by writing arguments, explanatory/informational texts, and narratives. Using the full writing process, students will learn how to produce and distribute quality writing using technology's capacity to produce, publish, and share writing products. Students will conduct short research projects and will participate in a range of collaborative discussions integrating multiple sources of information. This course will advance students' knowledge of the conventions of Standard English and will strengthen vocabulary acquisition and use. This course is supported through various Genre studies.

English Language Arts II:

Critical Reading, Writing, and Speaking supported through World and British Studies

121 HONORS ENGLISH LANGUAGE ARTS II 6 ppc 1.00 cr. HON Gr. 10
Pre-requisites: A final average of 85+ is required for retention in the Honors Program. A 95+ First Semester average, evidence of superior writing skills, and approval of Department Chair are required of any student seeking admission to the honors program who was not enrolled in English #111 in Freshman year.

122 ENGLISH LANGUAGE ARTS II 6 ppc 1.00 cr. CP Gr. 10
English Language Arts II is a required course for all tenth grade students. Based on the National Common Core Standards, this course provides students with the skills and knowledge to become advanced critical readers and writers by analyzing multiple themes, interpretations, and details, craft and structure, and the integration of knowledge and ideas in literature and informational text.
Reinforcing and expanding the writing objectives of the freshman year, this course will develop the student's writing skills by examining text types and purposes and by writing arguments to support claims in an analysis of substantive topics or texts. Students will write explanatory/informational texts to examine and convey complex ideas, and will write narratives to develop real or imagined experiences or events. Students will learn how to produce and distribute quality writing using technology's capacity to produce, publish, and share writing products. Students will conduct sustained research projects and will participate in a range of collaborative discussions and presentations integrating multiple sources of information. This course will further advance students' knowledge of the conventions of Standard English and will strengthen vocabulary acquisition and use.
This course is supported through various selections in World and British studies.

130 ADVANCED PLACEMENT LANGUAGE AND COMPOSITION 6 ppc 1.00 cr. AP Gr. 11
Prerequisite: Compliance with all criteria established by AP teacher are required of those seeking admission to the AP program. Students must have a 93+ First Semester Average in ELA 121. PSAT Scores will also be reviewed, and students must sit for a writing sample during the 3rd quarter. Selections are made by the AP teacher. Class size is limited. It is expected that students that accept placement into ELA 130 will also take ELA 140.
This course focuses intensely on the analysis of writing styles, both fiction and nonfiction. Students study principles of grammar, syntax, and rhetoric. Works of British and American authors are used exclusively. This course is the equivalent of the freshman year college English requirement.
All students are required to take the Advanced Placement test administered in May.

English Language Arts III:

Critical Reading, Writing, and Speaking supported through American Studies

131 HONORS ENGLISH LANGUAGE ARTS III 6 ppc 1.00 cr. HON Gr. 11
Pre-requisites: A final average of 85+ is required for retention in the Honors Program. A 95+ First Semester average, evidence of superior writing skills, and approval of Department Chair are required of any student seeking admission to the honors program who was not enrolled in English #121 in Sophomore year.

132 ENGLISH LANGUAGE ARTS III 6 ppc 1.00 cr. CP Gr. 11
English Language Arts III is a required course for all eleventh grade students. Based on the Common Core Standards, this course provides students with the skills and knowledge to

collaborative discussions and presentations integrating multiple sources of information. This course will further advance students' knowledge of the conventions of Standard English and will strengthen vocabulary acquisition and use. This course is supported through various selections in contemporary American studies.

FINE ARTS CURRICULUM

The Fine Arts Department offers courses in the Visual Arts, Choral Music, Instrumental Music and Dance. The Fine Arts curriculum allows students the opportunity to develop their own style while acquiring confidence and poise as they experiment with a variety of media.

All Archbishop Carroll students are required to take at least 0.5 credits in Fine Arts to graduate. Students may choose to take Visual Art, Vocal Music, Instrumental Music, or Dance to satisfy this requirement. If one of these electives is not selected, he/she will take Fine Arts Appreciation.

All Fine Arts electives are Honors courses, with the exception of Fine Arts Appreciation and any Advanced Placement offering

802 FINE ARTS APPRECIATION

6ppc 0.50 cr. CP Gr. 9,10

This is a one semester course offered to fulfill the Fine Arts requirement for students not enrolling in one of the Fine Arts electives listed below. The course is a non-technical survey of the arts, designed to provide students with an awareness of and appreciation for the fine arts. Predominant artists and musicians, as well as movements and styles of their works will be studied. Masterpieces that continue to influence the contemporary world of art and music will be stressed. Depending on the expertise of the instructor, the appreciation of the visual arts and/or music appreciation may be emphasized

811 HONORS ART I – INTRODUCTION TO ART

6ppc 1.00 cr. HON Gr.9,10,11,12

Prerequisite: Sophomores, Juniors, and Seniors are given priority into Art 811. Freshman requesting placement into 811 in 9th grade will be required to complete their Physical Education requirement at another time during their four years at Archbishop Carroll.

This hands-on course introduces students to the basic concepts of art. The elements of design are stressed. Students learn drawing, color theory, texture and form while experimenting with a wide variety of media such as: pencil; pastel; tempera; acrylic; watercolor; plaster; clay; and papier mache.

821 HONORS ART II

6ppc 1.00 cr. HON Gr. 10,11,12

Prerequisite: Course 811 and approval of department chair.

Building on the concepts learned in Art I, students will develop stronger drawing skills and begin larger scale works. The principles of design are emphasized, as students widen their experience in handling a variety of media. Compositional issues are addressed.

831 HONORS ART III

6ppc 1.00 cr. HON Gr. 11,12

Prerequisites: Courses 811, 821 and approval of department chair

This course builds upon concepts and skills learned in Art I and II. Students will explore new drawing and painting media and techniques as they solve challenging design issues. Advanced drawing, acrylic painting, printmaking, and 3D works are included. Students will begin developing a unique portfolio of work which can be used for college admission.

841 HONORS ART IV

6ppc 1.00 cr. HON Gr.12

Prerequisites: Courses 811, 821, and 831 and approval of department chair

Students in Art IV begin to give their work their own voice by developing a personal style. Projects are designed to help prepare students for further study of art at the college level. Advanced level drawing, painting, mixed media, and printmaking are explored while more complex design issues are addressed. Conceptual and thematic work is emphasized.

835 HONORS 3D ART **6ppc 1.00 cr. HON Gr. 11, 12**

Prerequisite: Course 811 and approval of the Department Chair.

A hands-on experience in designing, constructing and creating 3 dimensional art structures. Students will address issues of positive and negative space in their work and resolve design problems. Repurposing found objects, constructions in papier mache, plaster and mixed media as well as altered books will provide students with an opportunity to work solely in 3 dimensional design

850 ADVANCED PLACEMENT 2D STUDIO ART **6ppc 1.00 cr. AP Gr. 12**

Prerequisite: Students interested in taking AP 2D Studio Art must have earned a 95 or above in Course 831 and must have an interview with the department chair

This course follows the syllabus as dictated by the College Board. It is designed for the **highly motivated** student who is very seriously interested in the study of art. The program demands significant commitment and time management skills. **All students taking AP Art are required to submit a portfolio to the College Board AP Scoring Program**

845 DIGITAL DESIGN **6ppc 1.00 cr. HON Gr.10,11,12**

This course is a year-long, project based curriculum designed to utilize Photoshop and other Adobe products. The objective of this course is to discover digital media as an art form. Students will learn how to manipulate and create dynamic images through computer-based art. The class will also discuss the changing art world and how it is adapting with technology. Additionally, this class will look at the commercial aspects of art.

825 CERAMICS I **6ppc 1.00 cr. HON Gr.10,11,12**

Prerequisite: Course 811 and instructor's approval

This is a full year course that introduces the student to the history, form and function of pottery. The objective of this class is to study the form and function of pottery. Students will create a wide variety of pieces ranging from tiles to teapots. Students will learn basic kiln education and proper glazing applications. The class will gain an understanding of the importance of ceramics as one of arts earliest forms and its importance throughout cultures.

846 CERAMICS II **6ppc 1.00 cr. HON Gr. 11, 12**

Prerequisite: Course 825 and instructor's approval

This is a full year course that introduces the student to the history, form and function of pottery. The objective of this class is to study the form and function of pottery. Students will create a wide variety of pieces ranging from tiles to teapots. Students will learn basic kiln education and proper glazing applications. The class will gain an understanding of the importance of ceramics as one of arts earliest forms and its importance throughout cultures.

836 CERAMICS III - CLAY SCULPTURE **6ppc 1.00cr. HON Gr. 12**

Prerequisite: Course 846 and instructor's approval

This course will expand and advance the student's skills artistically as well as conceptually. Students will cover ceramics in a more non-functional method as the class creates larger scale sculptures considering form, weight, color and texture. Additionally, students will advance their techniques in figure sculpture and take a more advanced approach to studying the anatomy and human form.

847 DIGITAL PHOTOGRAPHY**6 ppc 1.00 cr Honors Gr. 11, 12**

Prerequisite: Students registering must submit three photos they have taken that they feel demonstrates strong and balanced composition by the assigned due date.

This course introduces students to the aesthetic and technical theories of digital photography as an art form. Students will learn DSLR camera operation including manual exposure, focus, white balance, and depth of field. Proper lighting and composition concepts are covered as well as image editing software use and photo output for print and web purposes. Students will compose their own photographs and adjust them using Adobe software to enhance their visual appeal in an effort to cultivate a personal style. We will examine photographs to critically analyze the use of visual media as a communications tool in our society

851 HONORS CHORUS**6ppc. 1.00 cr. HON Gr. 9, 10, 11, 12**

Prerequisite: A student who elects to enroll in Honors Chorus for four years is exempt from Physical Education for four years.

This course offers instruction in basic theory, sight-singing, phonetics, vocal techniques, and ear training. Varied styles of music for unison through 4 part harmony are performed. Repertoire varies from year to year. **The Chorus performs at various school functions throughout the school year; participation is required as outlined in the course syllabus.**

875 HONORS PIANO LAB I**6ppc 1.00 cr. HON Gr. 9,10,11,12**

This course is designed to introduce students to the fundamentals of piano methods and techniques. There will be opportunities for students to work in a group session as well as individualized levels for all students to work independently.

876 HONORS PIANO LAB II**6ppc 1.00 cr. HON Gr. 10,11,12**

Prerequisite: Course 875 and instructor's approval

This course builds on the skills developed in Piano Lab I. There will be opportunities for students to work in a group session as well as individualized levels for all students to work independently.

860 HON & AP MUSIC THEORY**6ppc 1.00 cr. HON & AP****Gr. 11,12**

Prerequisite: Students must take an entrance exam before enrolling in this course.

Fundamentals of music theory, including but not limited to notation, vocabulary, intervals, triads, time signatures and major and minor keys are the focus of this instruction. Skills developed include sight-

singing, ear training, transportation and part-writing. **All AP students are required to take to take the Advanced Placement test administered in May**

861, 871, 881, 891 INSTRUMENTAL MUSIC: CONCERT BAND

6ppc 1.00 cr. HON Gr.
9,10,11,12

Pre-requisite: Instrumentation limited to woodwinds, brass and percussion. At least 2 years' experience on primary instrument is preferred. A student who takes Concert Band for four years is exempt from taking Physical Education.

The Concert Band is the main performing ensemble at Archbishop Carroll. This course is open to all students who have basic musical skills and training on a band instrument. The band performs repertoire from the Early Classical through Contemporary works. Students are required to participate in all Band events. Through individual and group instruction, students receive technique instruction and are taught rudiments of music and music theory as well as music history, music literature and appreciation.

MATHEMATICS CURRICULUM

For incoming 9th graders who did not have Algebra I:

GRADE	HONORS/AP	COLLEGE PREP <i>(Above Average)</i>	ACADEMIC <i>(Average)</i>
9	Algebra I 311	Algebra I 312	Algebra I 313
10	Geometry 321 and Algebra II 331	Geometry 322	Geometry 323
11	Pre-Calculus 341	Algebra II 332	Algebra II 333
12	Honors Calculus 361 or AP Calculus 360 and/or Hon Statistics 351 or AP Statistics 350	Pre-Calculus 342	Trig/Stat 343

For incoming 9th graders who have completed Algebra I:

GRADE	(Honors)	College Prep	Academic
9	Honors Geometry 321	Geometry 322	Geometry 323
10	Honors Algebra II 331	Algebra II 332	Algebra II 333
11	Honors Pre-Calculus 341	Pre-Calculus 342	Pre-Calculus 342
12	Honors Calculus 361 or AP Calculus 360/370 and/or Honors Statistics 351 or AP Statistics 350	Honors Statistics 351 or Statistics 352	Statistics 352

The Mathematics Department endeavors to help students develop a sense of logical thinking and acquire facility in understanding and applying mathematical techniques. The department offers a thorough college preparatory program as well as courses for the non-college bound student. **All students are required to take three years of mathematics; most are encouraged to take four years.**

The sequence of courses begins with Algebra I and advances as far as AP Calculus. Students are placed in a track level based on aptitude, PSAT scores, classroom performance and teacher recommendation. Any exceptions must have departmental approval. **Any incoming 9th graders who wish to prove aptitude in Algebra I and attempt to advance to Geometry as a Freshman MUST sit for the Mathematics placement test in May or June. A student's results of the placement test, 8th grade final grades, and CSI scores will be taken into account when placing students in the proper mathematics courses.**

**Every Mathematics student is required to have a graphing calculator.
TI-84 Plus or silver is recommended.**

311 ALGEBRA I **6 ppc 1.00 cr. HON Gr. 9**
Based on the Common Core Standards, students enrolled in Algebra I will examine structure in equations, and will create equations that describe numbers or relationships. Students will reason

with equations and inequalities abstractly and quantitatively, will solve systems of equations and will represent and solve equations and inequalities graphically. Students will construct viable arguments for their reasoning and critique the reasoning of others.

- 312 ALGEBRA I** **6 ppc 1.00 cr. CP/AC Gr. 9**
313 This course covers the outline as named above. The pace and depth of content depend on track level.
- 321 HONORS GEOMETRY** **6 ppc 1.00 cr. HON Gr. 9, 10**
Prerequisites: Successful completion of Honors Algebra I with an average of 85+ or completion of Algebra I with an average of 94+, recommendation of teacher, and approval of the department chair. PSAT scores will also be reviewed. For Freshman, students must prove aptitude on the Mathematics placement exam.
Based on the Common Core Standards, students enrolled in Geometry will experiment with transformations in the plane, will prove geometric theorems and will make geometric constructions. Students will understand similarity, right triangles and trigonometric ratios. Students will understand and apply theorems about circles, will express geometric properties with equations, and will use geometric measurement and dimension to solve problems. Students will reason abstractly and quantitatively and will construct viable arguments and critique the reasoning of others.
- 322 GEOMETRY** **6 ppc 1.00 cr. CP/AC Gr. 9, 10**
323 This course covers the outline as named above. The pace and depth of content depend on track level.
- 331 HONORS ALGEBRA II** **6 ppc 1.00 cr. HON Gr. 10**
Prerequisites: Successful completion of Honors Geometry with an average of 85+ or Geometry with an average of 94+, recommendation of teacher, and approval of the department chair. PSAT scores will also be reviewed.
Based on the Common Core Standards, students enrolled in Algebra II will interpret and build functions, will perform arithmetic with polynomials and rational functions, will analyze functions using various representations and will construct and compare linear and exponential models and solve problems. Students will reason abstractly and quantitatively, will construct viable arguments and critique reasoning of others and will use appropriate tools of mathematics.
- 332 ALGEBRA II** **6 ppc 1.00 cr. CP/AC Gr. 10, 11**
333 This course covers the outline as named above. The pace and depth of content depend on track level.
- 341 HONORS PRE-CALCULUS** **6 ppc 1.00 cr. HON Gr. 11**
Prerequisites: To be admitted to this course, students must have completed Honors Geometry and Honors Algebra II with an average of 90+, recommendation of teacher, and approval of the department chair. PSAT scores will be reviewed.
Students will reason abstractly and quantitatively about the interdependence of logarithmic, exponential and trigonometric graphs and functions, and discrete mathematics and the underpinnings of calculus. Students will be able to apply said functions to real world applications, and construct viable arguments and critique the reasoning of others.
- 342 PRE-CALCULUS** **6 ppc 1.00 cr. CP/AC Gr. 11, 12**
343 This course covers the outline as named above. The pace and depth of content depend on

track level.

- 350 HONORS STATISTICS** **6 ppc 1.00 cr. HON Gr. 11, 12**
Prerequisites: Students must have completed Pre-Calculus with an average of 85+, recommendation by teacher, and approval of the department chair. PSAT scores will be reviewed.
A rigorous study of statistics and probability including the bell shaped curve, z-scores, and the null hypothesis. Included in this course is mathematical writing.
- 351 STATISTICS** **6 ppc 1.00 cr. CP Gr. 11, 12**
Prerequisites: Students must be recommended by their teacher, achieved a grade of 85+ in Pre-Calculus, and be approved by the department chair. This course studies most of the topics taught in the outline above. The pace and depth of content depend on track level.
- 360 ADVANCED PLACEMENT CALCULUS** **6 ppc 1.00 cr. AP Gr. 12**
Prerequisites: Compliance with all criteria established by AP teacher are required of those seeking admission to the AP program. Students must have a 93+ First Semester Average in Pre-Calculus 341. PSAT Scores will also be reviewed, and students must sit for an entrance exam during the 3rd quarter. Selections are made by the AP teacher. Class size is limited. Students are required to complete all summer work on-time for retention into the class in the fall.
This course follows the Princeton guidelines and is for students who want to earn college credits in Mathematics. THIS COURSE IS A RIGOROUS STUDY OF DIFFERENTIAL AND INTEGRAL CALCULUS. This course requires 10 hours of homework per week and includes mathematical writing. All topics are to be understood both with and without a graphing calculator.
All students are required to take the Advanced Placement test in May.
- 361 HONORS CALCULUS** **6 ppc 1.00 cr. HON Gr. 12**
Prerequisites: To be admitted to this class, students must have completed Pre-Calculus by the end of junior year with an average of 87+. PSAT Scores will also be reviewed.
This course studies most of the topics taught in the AP Calculus course after thoroughly preparing the students in functions and their behavior.

370 AP CALCULUS BC 6 ppc 1.00 cr AP Gr. 12

Prerequisites: For retention into the AP Program for AP Calc BC, students must earn an average of 87+ in AP Calc AB.

Explore all topics covered in Calculus AB, as well as additional topics such as parametric function, polar functions, vector functions and series.

All students are required to take the Advanced Placement test in May.

PHYSICAL EDUCATION/HEALTH CURRICULUM

The goal of the Physical Education/Health Department is to make students aware of the importance of fitness by introducing them to the fundamentals of sport and good health. The department encourages students to maintain a lifetime interest in physical well-being.

Note: All students are required to complete at least one semester of Health and Physical Education. A student who elects to take Concert Band or Honors Chorus as a 9th grader is excused from 062. However, if they elect to drop from Band or Chorus at any time during their time at Archbishop Carroll, that student will be required to take 075 as a full-year elective. A student who elects to take Honors Art I as a Freshman will be required to take 075 as an elective later on during their time at Archbishop Carroll.

062 INTRODUCTION TO PHYSICAL EDUCATION/HEALTH 6 ppc 0.50 cr. CP Gr. 9

In Physical Education emphasis is placed on fitness and safe fun. Students are exposed to the basic skills of individual and team sports, stressing those activities that comprise our Intramural and Interscholastic Program. Units include: soccer, team handball, floor hockey, volleyball, flag football, strength training, basketball, fitness testing and rope jumping. **This is a one semester required course.**

075 FITNESS FOR LIFE 6ppc 1.00 cr. CP Gr. 10, 11, or 12

The Fitness for Life Program is designed to help students accomplish four main objectives: acquire knowledge about the benefits of physical activity to health and wellness and about principles of fitness; acquire and use self-managements skills to promote lifelong physical activity; become physically active while pursuing goals to become physically fit; and become an independent decision maker who can plan his/her own personal fitness program.

SCIENCE CURRICULUM

The Science Program strives to instill scientific facts as well as to provide an understanding of the natural world in which each person lives. Emphasis is on science as process, not a collection of facts. The curriculum prepares students not only to live in a technological society but also to appreciate the works of the scientific community.

Students develop skills to gather scientific information through laboratory and research; organize and communicate their findings and draw conclusions in a logical fashion. Some laboratory investigations will make use of computer-based technology.. ALL students are required to take three years of Science but are encouraged to take four years of Science. The Honors Program is for academically exceptional students and intended to prepare them for AP courses.

SEQUENCE OF COURSES

GRADE	<i>Honors/AP</i>	COLLEGE PREP	ACADEMIC
9	Honors Biology	Physics 9	Physics 9

10	Honors Chemistry	Principles of Chemistry	Principles of Chemistry
11	AP Biology or AP Environmental Science or Honors Anatomy or AP Chemistry	Biology Chemistry II	Environmental Science or Chemistry
12	AP/Honors Physics or AP Chemistry or AP Environmental Science or Honors Anatomy	Physics or Environmental Science	Chemistry II or Environmental Science or Physics or Forensic Science

411 HONORS BIOLOGY

6 ppc 1.00 cr. HON Gr. 9, 11

Pre-requisites: 7th and 8th grade marks of 90+, Terra Nova percentile of 97+, CSI of 125+, 8th grade teacher recommendation, and final approval of the department chair. For an 11th Grader, Consistent 89+ in Honors Chemistry and consistent 85+ in Honors Candidates Math; 95+ in College Prep Chemistry and consistent 95+ in College Prep Math with teacher recommendation.
This is a challenging college preparatory course which provides the fundamental foundation for the AP Biology Program. Topics of study include: Cellular and Molecular Biology, Genetics, Ecology, and Comparative Anatomy and Physiology.

412 PHYSICS 9

6 ppc 1.00 cr. CP, Gr. 9

413 Physical Science covers the basic concepts of chemistry and physics. Students are introduced to such chemical concepts as atomic theory, chemical bonding, the periodic table, writing chemical formulas and balancing chemical equations. Physics concepts include the laws of motion, simple machines, heat, light, and electricity. Laboratory management, safety, and experimentation supplement classroom activities.

422 BIOLOGY

6 ppc 1.00 cr. CP Gr. 11

This college preparatory course includes the study of molecular biology, cellular biology, heredity, and ecology and examines the characteristics of organisms in the five kingdom classification scheme. Since students have previously had chemistry, emphasis is placed on molecular biology and chemical pathways essential to life forms.

431 HONORS CHEMISTRY

6 ppc 1.00 cr. HON Gr. 10

Pre-requisites: Consistent 89 or better in Honors Biology and consistent 85 or better in Honors Candidates Math; 95+ in College Prep Physics 9 and consistent 95+ in College Prep Math with teacher recommendation.

This accelerated college preparatory course is for the student who is considering a career in science, math or engineering. General concepts include: atomic theory, chemical bonding,

reaction kinetics, thermo-dynamics, qualitative analysis, equilibrium, oxidation-reduction and nuclear magnetic resonance. Extensive lab and outside work complement classroom experiences. Special emphasis is placed on acquiring deductive and inductive reasoning skills.

432 PRINCIPLES OF CHEMISTRY

6 ppc 1.00 cr. CP Gr. 10

This college preparatory course covers the same concepts as Honors Chemistry but has a less rigorous math approach.

440 ADVANCED PLACEMENT PHYSICS 1

7 ppc 1.00 cr. AP Gr. 12

Pre-requisites: 90+ Average in previous Honors Science and Math courses. Must have completed Honors Algebra II and concurrently enrolled in Honors Pre-Calculus. Must sit for placement test during the 3rd quarter of the previous year.

AP Physics 1 course focuses on the big ideas typically included in the first and second semesters of an algebra based, introductory college level physics sequence and provide students with enduring understandings to support future advanced course work in the sciences. Independent research and study are required. Through inquiry-based learning, students will develop critical thinking and reasoning skills. Students will cultivate their understanding of Physics and Science practices as they explore the following topics:

- Kinematics
- Dynamics: Newton's Laws
- Circular Motion and Universal Law of Gravitation
- Simple Harmonic Motion: simple pendulum and mass spring systems
- Impulse Linear Momentum and Conservation of Linear Momentum
- Work Energy and Conservation of Energy
- Rotational Motion: Torque, rotational kinematics and energy, Rotational dynamics, and conservation of Angular Momentum.
- Electrostatics: Electric Charge and electric force
- DC circuits
- Mechanical waves and sound

The Laboratory requirement for course requires 25 percent of the instructional time will be spent in lab, with emphasis on inquiry based investigations that provide students with opportunities to

demonstrate the foundational physics principles and apply all seven science practices defined in the curriculum framework. The experiments will be conducted in a team environment and require formal lab reports. Students will also be expected to do independent study outside of the classroom. The course follows the AP curriculum and will prepare students for the AP Physics exam.

All students are required to take the Advanced Placement test administered in May.

- 441 HONORS PHYSICS** 6 ppc 1.00 cr. HON Gr. 12
*Pre-requisites: Consistent 85+ average in previous Honors Science and Honors Math classes with teacher recommendation, 92+ average in previous College Prep Science and Math courses. **Must have completed Algebra II and take Pre-Calculus concurrently.***
Major topics in this accelerated college preparatory course include mechanics, optics and waves, electricity and magnetism, heat and energy, and modern physics. Lab experiments, team class activities and independent study are integral parts of this courses. Extensive use of algebra and trigonometry will also be incorporated. This course is essential for any student planning on any science-related field, especially engineering.
- 442 PHYSICS** 6 ppc 1.00 cr. CP Gr. 12
*Pre-requisites: 80-92 average in previous College Prep or Academic level Science and College Prep or Academic level Math classes with teacher recommendation. **Must take Math concurrently.** Must be currently enrolled in Algebra II or higher Math.*
This course is a college preparatory course for students who will not be majoring in Science or Engineering. This course covers the same content area as the Honors course but in a less rigorous approach. Lab work and outside assignments are an integral part of the course.
- 453 ENVIRONMENTAL SCIENCE** 6 ppc 1.00 cr. AC Gr. 11, 12
Prerequisites: Physical Science and Biology
This course will build on the scientific knowledge gained in Physical Science and Biology. Physical laws and scientific concepts will be reviewed and applied to environmental systems. Energy flow and recycling of materials will be emphasized. It is expected that students will strengthen their scientific literacy and improve their understanding of living systems and their interrelatedness. Students should be able to apply these concepts and act as responsible, informed citizens.
- 450 ADVANCED PLACEMENT BIOLOGY** 8 ppc 1.00 cr. AP Gr. 11
Pre-requisite: Compliance with all criteria established by AP teacher are required of those seeking admission to the AP program. 90 average or better in Honors Biology, 90 average or better in Honors Chemistry. PSAT Scores will also be reviewed, and students must sit for an entrance test at start of the 3rd quarter. Selections are made by the AP teacher. Class size is limited.
Advanced Placement Biology follows the College Board Guidelines and is designed for students who wish to earn college credit while still in high school.
Topics covered in this course include detailed study of: molecular biology including thermodynamics and enzyme function, cellular biology, Genetics and evolution, Taxonomy, Plants, Animals and Ecology. There is a great deal of emphasis on laboratory skills and data interpretation. Certain laboratory experiences are included in the actual AP test. Due to the amount of material that must be covered in this college-equivalent course, students are expected to do a great deal of reading and studying outside of class time. Work is assigned during the summer in order to review old material and to become acquainted with new topics.
All students are required to take the Advanced Placement test administered in May.

- 461 HONORS ANATOMY AND PHYSIOLOGY** 7 ppc 1.00 cr. HON Gr. 11, 12
Pre-requisites: 85+ average in Biology (Honors or College Prep) 85+ average in Chemistry (Honors, or College Prep).

This course provides students with an understanding and working knowledge of the structure and function of the human body. The syllabus includes technical terminology which is helpful to anyone interested in pursuing a medical or health-oriented program in college. This is a lab course; **dissection of a pig is required**. This class meets for four single periods and one double lab period per cycle. **NOTE:** Some nursing schools and all pre-med programs, require Physics as a prerequisite for admission. Therefore, if a choice between the two courses is necessary, Physics should be elected.

- 470 ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE** 8 ppc 1.00 cr. AP Gr. 11, 12
Pre-requisite: Compliance with all criteria established by AP teacher are required of those seeking admission to the AP program. 90 average or better in Honors Biology, 90 average or better in Honors Chemistry. PSAT Scores will also be reviewed, and students must sit for an entrance test at start of the 3rd quarter. Selections are made by the AP teacher. Class size is limited.

The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and man-made and to evaluate the risks associated with these problems. It is designed to be the equivalent of a one semester introductory college course.

Topics covered include: Interdependence of Earth's Systems, Human Population Dynamics, Renewable and Nonrenewable Resources, Environmental Quality and Global Changes and their Consequences. Approximately one field trip per quarter is made at the student's expense. **All students are required to take the Advanced Placement test administered in May.**

- 480 ADVANCED PLACEMENT CHEMISTRY** 7 ppc 1.00 cr. AP Gr. 11, 12
Pre-requisite: Compliance with all criteria established by AP teacher are required of those seeking admission to the AP program. 90 average or better in Honors Biology, 90 average or better in Honors Chemistry. or 97 or above in Chemistry CP and Honors Math classes with teacher permission and Department Chair approval. PSAT Scores will also be reviewed, and students must sit for an entrance test at start of the 3rd quarter. Selections are made by the AP teacher. Class size is limited.

This college level course is for the student who is considering a career in science, math or engineering. General concepts include gases, energy, and chemical change, chemical equilibrium redox reactions, electrochemistry, hydrocarbons, and the chemistry of life including an emphasis on nutritional chemistry. Material will be covered in more depth than Chemistry 2 at the College Prep level. Lab and outside work will complement classroom experiences.

All AP Chemistry II students are required to take the Advanced Placement test administered in May.

- 482 CHEMISTRY II** 6 ppc 1.00 cr. CP Gr. 11, 12
Pre-requisites: 85+ in Chemistry (College Prep) and Math classes with teacher permission.

This college preparatory course is for the student who is considering a career in science, math or engineering. General concepts include gases, energy, and chemical change, chemical equilibrium redox reactions, electrochemistry, hydrocarbons, and the chemistry of life including an emphasis on nutritional chemistry. Lab and outside work will complement classroom experiences.

497 FORENSIC SCIENCE

This course will provide an overview of the principles, procedures, and concepts of forensic and investigative sciences. Instruction will be given in the definitions, scope, and use of tools, techniques and protocols in forensic applications that are used to resolve social, regulatory, and legal disputes. There will be topics on the principles of prokaryotic and eukaryotic cell genetics. Case stories will be reviewed and modern technology used in Forensic Science will be described.

***491 INTRODUCTION TO ENGINEERING**

6 ppc 1.00 cr HON Gr. 11, 12

This course is designed to introduce juniors and seniors to the engineering profession. Students will learn both the scientific and nonscientific aspects of the engineering profession. The important non-scientific topics that will be covered include ethics, communication (written and oral), teamwork and planning. All these skills are used for Team Projects, which introduce students to “real world” engineering decision making from planning through design and testing of products. Field experiences and subsequent reports (written and oral), summarizing those experiences, are a required part of the course, since field experience gives students a broader understanding of university engineering expectations as well as worksite experience.

***495 3D MODELING**

6 ppc 1.00 cr. HON Gr. 11, 12

Learning 3D design is an interactive process. Students will explore the practical applications of the concepts that they learn. This STEM course has many activities and exercises that enable students to put design concepts into practice. Students create their ideas such as artificial heart components, extreme sports equipment, hip replacement parts, robotic arm components, musical instruments and their parts as well as many others. Ideas become reality in this course. Units to be studied are: Understanding a Graphical User Interface (GUI), Basic Functionality, Sketched Features, Basic Operations in 3D Solid Modeling, Applied Features, Loft Features, Pattern Features, Fillets, Design Tables, Assembly Basics, Toolbox Basics, Drafting Basics, Visualization, basic Sheet Metal Design Theory, Surfacing Features, Weldment Features, Predictive Analysis and Simulation, SolidWorks CSWA Certification.

***496 ROBOTICS**

6 ppc 1.00 cr. HON Gr. 11, 12

Using robots this course will cover the fundamentals of problem solving, program design, algorithms and programming using a high-level language. A robot is an embedded system of software and hardware. Programming and building of bots applies science, technology, engineering and math (STEM) concepts. This course introduces the fundamental concepts of programming and robotics.

*This course does not fulfill the minimum 3 year science requirement.

Project Lead the Way (PLTW) - A Four-year, Science-Based elective curriculum, designed to provide students with the experience necessary to succeed in the fields of Engineering.

Curriculum Overview: From launching space explorations to delivering safe, clean water to communities, engineers find solutions to pressing problems and turn their ideas into reality. PLTW Engineering empowers students to step into the role of an engineer, adopt a problem-solving mindset, and make the leap from dreamers to doers. The program's courses engage students in compelling, real-world challenges that help them become better collaborators and thinkers. Students take from the courses in-demand knowledge and skills they will use in high school and for the rest of their lives, on any career path they take.

This is a four-year course designed for Freshman to start with and continue through their Senior year. Sophomores are also welcome to apply for inclusion if interested, but will need to take two electives as a Senior to complete the four years of the program.

As the program begins, upperclassmen who have already taken Intro to Engineering and/or 3D Modeling are welcome to sign up to take the second level course as an elective as outlined in the Course Catalog.

Freshman Requirements: Any Freshman interested in entering into the PLTW program will defer their Health and Physical Education course and their Fine Arts Appreciation Course from their Freshman year. Those students will then be required to use an elective in either Junior or Senior year for a full-year Physical Education course to earn the requisite credits to be able to graduate.

A Freshman who intends to take Band or Chorus may still apply to enroll in the program, however, there is a specific set of courses the student must take over 4 years to ensure that they meet graduation requirements. Please reach out to the Office for Academic Affairs with any questions if this is a concern.

Any Sophomore wishing to enroll in the full program must have taken Science in 9th grade and completed their Physical Education requirement.

All students intending to enroll in the full course must commit to taking four years of Mathematics, and at least the minimum three years required of Science (4 is recommended). Freshman that enroll in the program will take Physics 9 as their 9th Grade Science to coincide with the work in the program. Biology will be taken during Junior year.

PLTW Course #1 - Introduction to Engineering Design

NOTE: This course is offered to Freshman and Sophomores ONLY who meet the course requirements listed above.

Introduction to Engineering Design (IED) is a high school level foundation course in the PLTW Engineering Program. In IED students are introduced to the engineering profession and a common approach to the solution of engineering problems, an engineering design process. Utilizing the activity-project-problem-based (APB) teaching and learning pedagogy, students will progress from completing structured activities to solving open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills.

PLTW Course #2 - Principles of Engineering

NOTE: This course is offered to any Junior or senior who has already taken Engineering and/or 3D Modeling.

Principles of Engineering (POE) is a foundation course of the high school engineering pathway. This survey course exposes students to some of the major concepts that they will encounter in a postsecondary engineering course of study. Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of materials and structures, automation, and kinematics. The course applies and concurrently develops secondary level knowledge and skills in mathematics, science, and technology.

SOCIAL STUDIES CURRICULUM

The Social Studies Department derives its basic philosophy from the general ideals and religious concepts of our school. The department attempts to develop the social consciousness of the student within the framework of the course of study and broaden his/her appreciation of one's own cultural heritage and that of others. The primary aim is to prepare the student for active, responsible citizenship by attempting to foster knowledge of the world in which he/she lives and a sense of the value of one's contributions as an intelligent Christian in that world. Beginning with the Class 2018 a student is required to complete one year of thematic World

History, one year of American Government and Civics, one year of American History and one year of Comparative Government and Economic Systems or and Advanced Placement Course in Senior Year.

All Advanced Placement Social Studies classes will have the following prerequisites: 93+ average in previous Honors Social Studies class and Honors English class or 90+ average in previous A.P. Social Studies and A.P. English class, an entrance exam and a Teacher Recommendation

210 HONORS WORLD HISTORY 6 ppc 1.00 cr. Tr. 1 Gr. 9

Pre-requisites: 7th and 8th grade marks of 90+, Terra Nova Percentiles of 95+, CSI of 130+, and 8th grade teacher recommendation.

This course is a global approach to world history that examines key themes in human history in greater depth instead of focusing on a list of factual events that need to be covered.

Themes such as human interaction, power, movements, state building, cultural development and sharing, creation and maintaining of political and economic systems and conflict will be examined. The specific content chosen best supports a deepened understanding of each theme. Essential learning is the focus of content and students will make strong connections between the thematic ideas examined throughout the course of the year. The honors level course is designed to meet the needs of our academically advanced students.

211 COLLEGE PREPARATORY WORLD HISTORY 6 ppc 1.00 cr. Tr. 2 Gr. 9

This course is a global approach to world history that examines key themes in human history in greater depth instead of focusing on a list of factual events that need to be covered. Themes such as human interaction, power, movements, state building, cultural development and sharing, creation and maintaining of political and economic systems and conflict will be examined. The specific content chosen best supports a deepened understanding of each theme. Essential learning is the focus of content and students will make strong connections between the thematic ideas examined throughout the course of the year.

- 260 ADVANCED PLACEMENT UNITED STATES GOVERNMENT AND POLITICS**
6 ppc 1.00 cr. Tr. 5 Gr. 10, 11, 12
This course is designed to give students a critical perspective on politics and government in the United States. The course involves the study of general concepts and analysis of specific case studies, such as Supreme Court cases or elections. At the end of the course the student is expected to demonstrate a fairly detailed understanding of American political institutions. Topics include the Constitution (development and application), political beliefs and practices, political parties and interest groups, institutions and policy practice, civil rights and civil liberties. **All students are required to take the Advanced Placement test administered in May.**
- 261 HONORS AMERICAN GOVERNMENT AND CIVICS 6ppc 1.00 cr. Tr. 1 Gr. 10, 11, 12**
Pre-Requisite: Student must maintain an average of 85+ in Honors World History with teacher recommendation, or a 93+ in CP World History with teacher recommendation and Department Chair Approval
The Honors course in American Government and Civics will challenge the student in the search for, not only historical facts, but also for the application of government principles in his/her life. The course will lay the foundation of the American government system while also examining major historical events in the U.S. that were shaped by the three branches of our federated system. Topics to be covered include the Foundations of American Government, the Six Basic Principles found in the U.S. Constitution, American Democracy and Citizenship and Pennsylvania Government and Citizenship.
- 262 COLLEGE PREPARATORY AMERICAN GOVERNMENT AND CIVICS**
6 ppc 1.00 cr. Tr. 2 Gr. 10, 11, 12
The course will lay the foundation of the American government system while also examining major historical events in the U.S. that were shaped by the three branches of our federated system. Topics to be covered include the Foundations of American Government, the Six Basic Principles found in the U.S. Constitution, American Democracy and Citizenship and Pennsylvania Government and Citizenship.
- 230 ADVANCED PLACEMENT UNITED STATES HISTORY 6 ppc 1.00 cr. Tr.5 Gr. 11, 12**
The Advanced Placement American History course is designed to give students a grounding in the subject matter of American history and in major interpretive questions that derive from the studies of selected themes. The approach is the close examination of a series of problems or topics through specialized writings by historians and through supplementary readings. The students have access to materials that provide them with an overview of American history and enable them to establish the content and significance of specialized interpretive problems. A student must be able to draw upon a reservoir of systematic factual knowledge in order to exercise analytic skills intelligently. The course covers American History from the Meso-America period to the present. Major themes studied include the economic reasons Europeans came to North America, the American Revolution, the Constitution, Jacksonian Era, Civil War

and Reconstruction, the Gilded Age and Progressives, the New Deal, World Wars, International Relations and the problems facing America in the second half of the 20th Century.

All students are required to take the Advanced Placement test administered in May.

231 HONORS MODERN AMERICAN HISTORY AND CULTURE

6 ppc 1.00 cr. Tr. 1 Gr. 11

Pre-Requisite: Student must maintain an average of 85+ in Honors US Government with teacher recommendation, or a 93+ in CP US Government with teacher recommendation and Department Chair Approval

The Honors course in American History will challenge the gifted student in the search for, not only historical facts, but also the application through the use of primary resource and historiography. The material studied will take the student from 1900 to the present day as well as one quarter spent studying the Constitutional Period, its development and implementation. The class moves quickly with much emphasis on independent student preparation for discussion and analysis of facts, looking to interpret the events of history and their impact.

232 COLLEGE PREPARATORY MODERN AMERICAN HISTORY AND CULTURE

6 ppc 1.00 cr. Tr. 2 Gr. 11, 12

United States History from 1900 through the significant periods of the 20th century is examined as well as one quarter spent studying the Constitutional Period, its development and implementation. Insights into the rationale for the development of trends and ideologies are encouraged. Materials in the text are designed to provide students with a body of factual knowledge as well as the opportunity to develop the improvement of inquiry skills.

240* ADVANCED PLACEMENT HUMAN GEOGRAPHY

6 ppc 1.00 cr. Tr. 5 Gr. 11, 12

The purpose of the Advanced Placement course in Human Geography is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of the Earth's surface. Students employ spatial concepts and landscape analysis to analyze human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice.

All students are required to take the Advanced Placement test administered in May.

241* HONORS HUMAN GEOGRAPHY

6 ppc 1.00 cr. Tr. 1 Gr. 11, 12

Prerequisite: Overall averages of 85+ in Honors English and Social Studies courses and 90+ overall averages in College Preparatory English and Social Studies classes.

The purpose of the Honors course in Human Geography is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of the Earth's surface. Students employ spatial concepts and landscape analysis to analyze human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice.

272* COLLEGE PREPARATORY PRINCIPLES OF SOCIOLOGY/CURRENT EVENTS

6 ppc 1.00 cr. Tr. 2 Gr. 12

The Principles of Sociology class introduces Sociology as a science by presenting the concepts, principles, theories and methods in a clear concise manner. A broad range of cross-cultural

922 THEOLOGY II **6 ppc 1.00 cr. CP Gr. 10**

1st Semester THE MISSION OF JESUS CHRIST (THE PASCHAL MYSTERY)

This course helps students understand all that God has done for humanity through his Son, Jesus Christ. God has planned, from all eternity, for human beings to share everlasting happiness with him. This is accomplished only through redemption in Christ. Students inquire about the meaning of being a disciple of Christ.

2nd Semester JESUS CHRIST'S MISSION CONTINUES IN THE CHURCH

This course helps students understand that they encounter the living Jesus Christ in and through the Church. The Church was founded by Christ through the Apostles. It is sustained by him through the Holy Spirit. The Church is the living Body of Christ. Students explore the Church as a mystery which has both human and divine elements.

931 HONORS THEOLOGY III **6 ppc 1.00 cr. HON Gr. 11**
932 THEOLOGY III **6 ppc 1.00 cr. CP Gr. 11**

1st Semester SACRAMENTS AS PRIVILEGED ENCOUNTERS WITH CHRIST

This course helps students understand that they can meet Christ today in and through the sacraments. Each sacrament, particularly the Eucharist, is a means to a full and real encounter with Christ. Students examine each sacrament in detail so as to learn how they may encounter Christ throughout life.

2nd Semester LIFE IN JESUS CHRIST

This course helps students understand the moral life. Only in Christ can human beings discover the fullness of life. Disciples of Christ are guided by moral concepts and precepts of Christ and his church. Students probe these moral teachings and reflect upon their implications.

951 THEOLOGY III - FAITH IN ACTION I **6 ppc 1.00 cr. HON Gr. 11**

This Peer Ministry course is for students who want to do more for Christ, who want to sustain their prayer and sacramental lives, and who want to become the Christ-like leaders our society needs. They will learn the moral concepts and precepts that govern discipleship while investigating and engaging in practical ministry experiences at school and in the larger church. Specifically, students in this course will be responsible for planning and executing retreats for the school and wider community, prayer services, Masses, service initiatives, and other special events throughout the school year.

There will be an application process for this course that will require the approval of the Department Chair. This course will run based on enrollment. Prerequisites for enrollment in this course are a written recommendation from the student's current or previous Theology instructor(s) and the approval of the Director of Campus Ministry. Criteria for selection will include, but not be limited to: promotion by example the ideals of Jesus Christ, a desire to deepen and share one's faith, evidence of service involvement in the school and/or larger community, ability to balance academic and other commitments with those of this course, proof of self-sufficiency, resilience, motivation, and critical thinking.

941 HONORS THEOLOGY IV **6 ppc 1.00 cr. HON Gr. 12**
942 THEOLOGY IV **6 ppc 1.00 cr. CP Gr. 12**

All students are required to complete two consecutive years of world language study. Students begin their language studies as Freshmen with the exception of those who are rostered for Skills Development (see Special Programs) and Art I. These students begin language studies as Sophomores. Juniors and Seniors may select a second foreign language as an elective. If a student has had previous language experience and wishes to advance to the following course, he/she needs to pass a qualifying test and to obtain the approval of the department chair.

- 511 HONORS SPANISH I** **6 ppc 1.00 cr. HON Gr. 9, 10, 11**
512 SPANISH I **6 ppc 1.00 cr. CP Gr. 9, 10, 11**
Prerequisite: For a student to be placed into Honors Spanish I, CSI scores and 8th grade final marks are reviewed. For a student wishing to place OUT of Spanish or French I, a student must sit for the placement exam in the subject area of their choosing in May or June.
 In Spanish I, students are introduced to the four skills of understanding, speaking, reading, and writing the language within a context of appreciation of the culture of Spanish-speaking people and global studies. The emphasis is on development of an active vocabulary so that students may apply it to real-life situations.
- 521 HONORS SPANISH II** **6 ppc 1.00 cr. HON Gr. 10, 11, 12**
Pre-requisites: A final average of 85+ is required for retention in the Honors Program. A 93+ First Semester average, evidence of oral and written proficiency, and approval of Department Chair are required of any student seeking admission to the honors program who was not enrolled in Spanish 511 in the previous year.
- 522 SPANISH II** **6 ppc 1.00 cr. CP Gr. 10, 11, 12**
 Students continue to study grammatical structures and to concentrate on comprehension of the spoken language along with a continuation of Spanish and Latin American culture.
- 531 HONORS SPANISH III** **6 ppc 1.00 cr. HON Gr. 11, 12**
Pre-requisites: A final average of 85+ is required for retention in the Honors Program. A 93+ First Semester average, evidence of oral and written proficiency, and approval of Department Chair are required of any student seeking admission to the honors program who was not enrolled in Spanish 521 in the previous year.
- 532 SPANISH III** **6 ppc 1.00 cr. CP Gr. 11, 12**
 After a period of review of essential elements, advanced grammar and idioms are introduced as a means of facilitating greater ease in understanding, speaking, reading, and writing. Group activities are a vital part of this course in order to prepare and practice speaking activities. Continued work in the study of Spanish and Latin American cultures is an integral part of this course. Of the four skills noted above, oral proficiency is emphasized.
- 541 HONORS SPANISH IV** **6 ppc 1.00 cr. HON Gr. 12**
Pre-requisites: A final average of 85+ is required for retention in the Honors Program. A 93+ First Semester average, evidence of oral and written proficiency, and approval of Department Chair are required of any student seeking admission to the honors program who was not enrolled in Spanish 531 in the previous year.
 This course highlights the history, culture, and civilization of Spain and Latin America. Stress is given to grammar review and perfection of the spoken language. Reading and writing skills include literary works, newspaper excerpts and periodicals.
- 551 HONORS FRENCH I** **6 ppc 1.00 cr. HON Gr. 9, 10,**
11

552 FRENCH I

6 ppc 1.00 cr. CP Gr. 9, 11, 12

Prerequisite: For a student to be placed into Honors French I, CSI scores and 8th grade final marks are reviewed. For a student wishing to place OUT of Spanish or French I, a student must sit for the placement exam in the subject area of their choosing in May or June.

In French I, students are introduced to the four skills of understanding, speaking, reading and

writing the language within a context of appreciation of the culture of French-speaking people. The emphasis is on development of an active vocabulary so that students may apply it to real-life situations.

- 561 HONORS FRENCH II** **6 ppc 1.00 cr. HON Gr. 10, 11, 12**
562 FRENCH II **6 ppc 1.00 cr. CP Gr. 10, 11, 12**
Students continue exercise and development of all skills introduced in French I, with an emphasis on understanding, and use of the basic structures of the language. Reading and written aspects of the language are stressed.
- 571 HONORS FRENCH III** **6 ppc 1.00 cr. HON Gr. 10, 11, 12**
Pre-requisites: A final average of 85+ is required for retention in the Honors Program.
After a period of review of essential elements, advanced grammar and idioms are introduced as a means of facilitating greater ease in understanding, speaking, reading, and writing. Group activities are a vital part of the course in order to prepare and practice speaking activities. Continued work in the study of culture is an integral part of the course.
- 581 HONORS FRENCH IV** **6 ppc 1.00 cr. HON Gr. 12**
Pre-requisites: A final average of 85+ is required for retention in the Honors Program.
An advanced level course, this program aims to further develop in the student a facility in both oral and written communication. Advanced grammar and idioms are introduced as a means of facilitating greater ease in the four language skills. Stress is given to perfection of the spoken language. Integrated in the program is a study of French History, Literature, and formal culture such as Art, Music, and Dance. Small group and independent activities are a vital part of this course in order to provide students with occasions to prepare and present directed and/or spontaneous oral work.
- 592 HONORS LATIN I** **6 ppc 1.00 cr. HON Gr. 10, 11, 12,**
Latin has its own rich history and serves as a basis for many modern languages. This introductory course includes intensive study of the fundamental structures of the language, with emphasis on the skills of understanding, reading, and writing. Emphasis is placed upon the study of vocabulary to increase and enrich the English vocabulary of the student. Attention is given to varied aspects of ancient Roman culture and civilization through readings in Latin.
- 591 HONORS LATIN II** **6 ppc 0.50 cr. HON Gr. 12**
This course continues to build a strong foundation of the Latin language to enable one to pursue the wisdom and thought of ancient authors. Emphasis is given to the mastery of Latin (and some Greek) vocabulary in order to foster the use of clear and concise English. Awareness of the impact of the Classical heritage in art, architecture, law, and literature is nurtured. Integral to the course is the heightening of intellectual power through the required mental exercise and the development of a “mens sana in corpore sano”.

SPECIAL ACADEMIC PROGRAMS

- 703 CARROLL SKILLS I** **6 ppc 1.00 cr. AC Gr. 9**
In addition to their regular English course, students can be rostered for skills development when the need for improvement is evidenced by standardized test scores, teacher observation and/or student choice. The course is taken in place of a foreign language. The program emphasizes comprehension and vocabulary development, study skills and writing. Small group instruction helps the student to firmly establish necessary reading/thinking, writing skills before advancing to the next level. Foreign language studies commence in sophomore year.
- 713 CARROLL SKILLS II** **6 ppc 1.00 cr. AC Gr. 10**
The purpose of this course is to support and extend the Skills Development Strategies received in the Skills Development I course and to encourage the application of these learning strategies across the curriculum. This course will provide instruction which emphasizes study skills. Preparation for the PSAT, and other national tests, will place emphasis on the application of general test-taking strategies and frequently used PSAT vocabulary. Instruction in reading and writing strategies will also be given.
- 723 CARROLL SKILLS III** **6 ppc 1.00 cr. AC Gr. 11**
The objective of this course is an ongoing instruction of the Skills Development Strategies and the introduction of SAT prep. Transitional strategies and life skills are implemented to prepare students for postsecondary education and/or employment. Strategies for choosing a career/course of study, mastering the job/college search, preparing/acing the interview, and all of the documents which accompany these topics are also introduced.
- 733 CARROLL SKILLS IV** **6 ppc 1.00 cr. AC Gr. 12**
The objective of this course is to reinforce Skills Development Strategies applicable across a variety of subject and educational settings so that students can become more effective and independent learners. This course will utilize students' individual strengths to improve skills necessary for success in school (i.e. time management and test taking skills). Students will increase their proficiency in the reading and writing processes through instruction and activities that include content area and supplemental material. Finally, this course will assist students in the transition process by researching options for life after high school.
- 708 PRINCIPLES AND PRACTICE OF THE EXCEPTIONAL LEARNER** **6 ppc 1.00 cr. CP Gr. 12**
Pre-requisites: 85 cumulative average, three letters of recommendation, and a letter of intention.
This interactive course will provide individuals with an interest in special education, psychology, and different therapies an avenue in which to explore their interests. Individuals will keep a journal of activities, participate in tutorial and group experiences, and cooperate with classroom teachers. Individuals will also be expected to explore current trends in special education and apply them to their experience.
- 772 ATHLETIC TRAINING** **6 ppc 1.00 cr. CP Gr. 12**
Pre-requisites: 85 cumulative average, three letters of recommendation, and a letter of intention. This course will be offered during the 7th period. Class limited to maximum of 20 students.

This course provides an overview of various fields of athletic training and sports medicine. Students will learn how to use training equipment and materials, procedures for athletic training and the role of trainers as care providers. They will examine the organizations, regulations and ethics that govern the profession. Service hour requirement is included with this class. The number of hours will be determined by the teacher but will not exceed 30 hours over the school year.

781* HONORS PSYCHOLOGY

6 ppc 1.00 cr. HON Gr. 12

*Prerequisite: Overall average of 85+ in Track 1 English **and** Social Studies courses*

This Social Studies Elective is an introductory course of the scientific study of human behavior and mental processes – Psychology. How and why people behave or misbehave is the basis of this course. Units will include neurobiology, developmental psychology, abnormal psychology and educational psychology. Special requirements: Term and research papers will be required.

*Prerequisite: Overall average of 85+ in Track 1 English **and** Social Studies courses.*

***This is an elective course and cannot be taken to meet Social Studies or English requirements**

DIOCESAN SCHOLARS PROGRAM

Twelve Catholic colleges in the Philadelphia area in cooperation with the Secondary School System of the Archdiocese of Philadelphia sponsor the Diocesan Scholars Program. The program is designed to honor those students who have excelled academically and to provide them with the opportunity to gain experience at the collegiate level while continuing their valued involvement and growth in the high school community. The top thirty juniors, by fifth semester cumulative class rank, are invited to make formal application and interview for the program. In addition to three Carroll classes, students are required to take two courses each semester of senior year at one of the following colleges: Cabrini College, St. Charles Seminary, Immaculata College, Neumann College, Rosemont College, St. Joseph University and Villanova University. Students earn both high school (track 5 credit) and college credit; they are expected to maintain at least a B average. No college tuition is assessed. College classes are normally scheduled in the morning; Carroll classes in the afternoon. Students are expected to provide their own transportation.

TECHNICAL EDUCATION

The purpose of vocational-technical education is to provide the opportunity for students to learn the skills necessary to obtain useful and rewarding employment and/or to prepare them for career-oriented education in college or technical school. It is designed so that students may take a two-year sequential program during junior and senior years. Students electing to attend local vocational-technical schools spend a half-day at Carroll and a half-day at the Voc-Tech school. The complementary course of study provides sufficient credits to qualify the student for a high school diploma while providing the student with “entry-level” skills in specific trades. Admission depends upon the county in which the student resides. Vocational-technical offerings usually include:

- | | |
|-----------------------|---------------------------|
| Automotive | Business Data Processing |
| Commercial Art | Graphic Arts |
| Food Service Prep | Building Construction |
| Metal Trades | Electrical |
| Dental Lab Technician | Communications Technology |
| Cosmetology | Medical Lab Technician |
| Drafting/Design | Photographic Technology |

CABRINI PROGRAM: A PARTNERSHIP PROGRAM

3ppc 1.00 cr. AP Gr 11, 12

Students, who meet the entrance requirements to Cabrini College, will be able to take up to two courses each semester on the Cabrini College Campus. There is a \$300 charge for each three-credit course.

Students will receive dual enrollment credit (Carroll and Cabrini credit). Students will also be required to purchase any textbooks or materials needed for the class(es). Students must provide their own transportation and pick classes that start at 2 pm or later. The courses to be offered will be determined by the Cabrini College availability, but projected classes are Mandarin Chinese I and II, Foundations in Psychology, Principles of Sociology to be scheduled during the academic day; other classes may be available for student consideration outside of the traditional Carroll school day schedule.

ROSEMONT PROGRAM: A PARTNERSHIP PROGRAM 3ppc 1.00 cr. Track 5 Gr 11, 12
 Students, who meet the entrance requirements to Rosemont College, will be able to take up to two courses each semester on the Rosemont College Campus. There is a \$300 charge for each three credit course. Students will also be required to purchase any textbooks or materials needed for the class(es). Students must provide their own transportation and pick classes that start at 2 pm or later. The courses to be offered will be determined by the Rosemont College availability, but projected classes are Digital Photography and other Fine Arts electives to be scheduled after the academic day at Carroll.

The following is provided to assist you in your selections.

In accordance with the requirements established by the State of Pennsylvania Department of Education and those of the Archdiocese of Philadelphia, a diploma is awarded to Archbishop John Carroll High School students for the successful completion of the prescribed course of studies. *A student, who completes four years at Archbishop John Carroll High School, currently earns a minimum 25.50 credits in grades 9 through 12 as follows:*

4.00	credits	THEOLOGY
4.00	credits	ENGLISH
3.00	credits	SOCIAL STUDIES
3.00	credits	MATHEMATICS
3.00	credits	SCIENCE
2.00	credits	WORLD LANGUAGE
0.50	credits	HEALTH/PHYSICAL EDUCATION
0.50	credits	COMPUTER APPLICATIONS
0.50	credits	FINE ARTS
5.00	credits	ELECTIVES
25.50	credits	TOTAL

Freshman Year	Course	Credits

Sophomore Year	Course	Credits

Junior Year	Course	Credits

Senior Year	Course	Credits

