

# Gloucester Catholic High School

Course Description Booklet  
and  
Student Planning Guide

2021-2022



## THE GCHS MISSION

Gloucester Catholic empowers young men and women to become faithful citizens and to develop in all aspects of life: spiritual, intellectual, moral, emotional, social and physical.

Our goal is that our graduates continue their education and carry with them a guide for Catholic Christian living: vibrant faith, respect for human dignity, strong belief in the values of family, promotion of justice, service to community and country, and the desire to make a positive difference in society.

Gloucester Catholic is enriched by a legacy of Catholic tradition spanning four generations. We draw strength and inspiration from our past as we make an exceptional Catholic education available and accessible to our future leaders.

## GCHS PHILOSOPHY OF EDUCATION

Gloucester Catholic Junior Senior High School is a Catholic school in the Diocese of Camden, New Jersey. Our Catholic school creates a unique setting within the ideal of Christian education, "to make people's faith become living, conscious, and active through the light of instruction."

Gloucester Catholic's educational program is unique because its design and operation foster and integrate religion with the task of learning and living. It is contemporary because it enables students to address with Christian insight the multiple problems facing individuals and society today. It is oriented toward Christian service by providing students with the opportunity to acquire skills, virtues, and habits of both heart and mind required for effective service to others.

Gloucester Catholic's philosophy of education is an outgrowth of our definition of a Catholic institution. A school's philosophy must be predicated in some way on the societal conditions in which it exists, because the primary role of that school is to prepare young people to take a responsible place in that society. Gloucester Catholic students do not simply fit into or cope with society; they are young men and women capable of taking active roles in shaping that society. It should be recognized that high school years make a lasting imprint on the spiritual character of young people. Our philosophy of education is concerned with the whole student -- the spiritual and ethical, the intellectual and physical, the psychological and societal.

We are not only physical, but spiritual beings. The integration of religious truths and values with life distinguishes the Catholic school from other schools. This integration is a matter of crucial importance today in view of contemporary trends and pressures to compartmentalize life and learning, and to isolate the religious dimension of existence from other areas of human life.

Each student is an individual whose potential must be challenged and whose uniqueness must be nurtured. Because of the demands of our pluralistic society, intellectual growth is essential. Therefore our school insures this growth by providing a curriculum which is challenging and varied, giving each student the opportunity to develop according to his or her own ability and interest.

Although we are individuals, we must live in society. Thus, the school must provide students the opportunity to live in a community where the qualities of understanding, respect, and compassion are valued. Ethical orientation toward each other within both the school and secular communities is as important to us as our students' cognitive growth. Students are taught to take responsible roles in society, and to this end the school expects the students to learn and practice leadership, taking responsibility for their actions.

Therefore, the concerns of our school are: first, to provide a community of faith in which our value system and the student's spirituality are supported and developed; secondly, to provide the student with the opportunity to grow intellectually and physically according to his or her own capabilities; and finally, to provide for the student's psychological and social well-being. The student is thereby led to take his or her place as an active member in the community.

## PROFILE OF A GCHS GRADUATE

GCHS believes that the values inherent in its mission, together with the efforts and achievements of our administration, faculty, staff and student body, will produce a certain type of student upon graduation.

It is our goal that each student who graduates from Gloucester Catholic will:

- be a good Christian
- be a reflective person who will make informed decisions using critical thinking and sound moral judgments.
- be a person with a strong sense of personal responsibility and self-reliance
- be actively involved in his/her community, as well as the world at large, through service to others
- be able to accept diversity among people
- be able to effectively communicate
- be prepared to be a life-long learner, eager to continue his/her education
- be someone who continues the GC family traditions of faith, knowledge and loyalty
- value his/her academic accomplishments

## CURRICULUM

Gloucester Catholic offers a college-prep curriculum. Our goal is provide every student with a chance at college, yet tailor the experience for individual differences.

For class rank purposes, Gloucester Catholic High School has divided its curriculum into seven groups of subjects according to academic difficulty and present college curriculum compatibility. Courses in the higher groups earn more class-rank points than courses in lower groups.

### **Group 1 Subjects**

Accelerated Pre-Calculus  
Advanced Placement Biology  
Advanced Placement Chemistry  
Advanced Placement English Language and Composition  
Advanced Placement English Literature and Composition  
Advanced Placement Environmental Science  
Advanced Placement Physics 1  
Advanced Placement Psychology  
Advanced Placement U.S. History (available for dual-credit with CCC)  
Advanced Placement Calculus AB (available for dual-credit with CCC)  
Computer Programming (w/ AP Computer Science A option)

## **Group 2 Honors Subjects**

US History 1 Honors  
US History 2 Honors (available for dual-credit with CCC)  
Algebra 1 Honors  
Algebra 2/Trig. Honors  
Geometry Honors  
English 1, 2, 3, and 4 Honors  
Honors Religion 4 Service  
Honors Physics  
All RCGC courses (for high school transcribing purposes only)

## **Group 2 Subjects**

English 1, 2, 3, and 4  
US History 1 & 2  
World History  
Sociology  
Psychology  
American Gov't/Current Events  
Pre-Calculus CP  
Probability and Statistics  
Algebra 1 & 2  
Geometry  
Biology  
Chemistry  
Physical Science  
Forensic Science  
Anatomy and Physiology  
Business/Economics  
Sports & Entertainment Marketing  
French 1, 2, 3  
Spanish 1, 2, 3, 4  
Earth Science  
Accounting 1  
Computer Applications  
All online Computer classes  
HTML & Web Design  
Desktop Publishing  
Religion 1, 2, 3, 4

## **Group 3A Subjects**

Geometry: Concepts and Skills  
Spanish Grammar 1, 2  
Art 2, 3

## **Group 3 Subjects**

Pre-Algebra  
Business Math 1 & 2  
Applied Reading  
Art 1

## Group 4 Subjects

Health 1  
Driver's Education

## Group 5 Subjects (do not count in class rank)

CPR  
Physical Education  
Intro to Art  
Digital Literacy

## CLASS RANK

One of the criteria by which colleges and universities select prospective candidates is the student's rank in class. This rank, together with a transcript of semester averages of a student's day by day work, his College Board (SAT) or ACT scores, his participation in extra-curricular activities, and his character references from the Administration, Guidance Department and faculty constitute the determining factors for acceptance into college. Moreover, class rank is an essential consideration in the NJ STARS and other academic award programs.

*How is class rank determined?* A list of the six groupings of courses (subject to revision each year) that affect class rank follows below.

Marks	Group 1	Group 2H	Group 2	Group 3A	Group 3	Group 4
A+ (97-100)	7.5	7.0	6.5	6.0	5.5	4.5
A (93-96)	7.0	6.5	6.0	5.5	5.0	4.0
B+ (89-92)	6.5	6.0	5.5	5.0	4.5	3.5
B (85-88)	6.0	5.5	5.0	4.5	4.0	3.0
C+ (81-84)	5.5	5.0	4.5	4.0	3.5	2.5
C (77-80)	5.0	4.5	4.0	3.5	3.0	2.0
D+ (74-76)	4.5	4.0	3.5	3.0	2.5	1.5
D (70-73)	4.0	3.5	3.0	2.5	2.0	1.0
F (0-69)	0.0	0.0	0.0	0.0	0.0	0.0

**Class rank** is calculated using our PowerSchool administrative software. A pre-set algorithm uses the quality points accumulated from grades earned in all courses from groups 1-4. Remedial courses and/or grades completed with tutors are subject to review by the Guidance Department; typically the highest grade given will be a C+.

Class rank is determined by the Guidance Department at the end of the 2<sup>nd</sup>, 4<sup>th</sup>, 6<sup>th</sup>, 7<sup>th</sup> and 8<sup>th</sup> semesters. A comparison is made to show a student's relationship to all other class members and the rank is added to his or her transcript (e.g., 21/185).

Quality points are not assessed to athletics, co-curricular involvements, or courses taken in area colleges other than approved Rowan College at Gloucester County (RCGC) courses. In this way they do not affect class rank. Students who take RCGC courses have the option of having those grades count or not in the calculation of their class rank.

If two or more seniors earn an identical class rank at the conclusion of four years, the highest composite

SAT score at any one sitting will be considered a tie-breaker to determine the order of speakers at commencement exercises.

## GRADUATION REQUIREMENTS

	Requirements
Total credits	120 credits
Religion	20 credits* (5 each year)
English	20 credits (5 each year)
Algebra 1	5 credits
Geometry	5 credits
Mathematics (other)	5 credits
Life Science/Biology (lab)	5 credits
Science (other)	10 credits
World History	5 credits
U.S. History	10 credits
Fine/Practical Arts	5 credits
Physical Education	2.5 credits
Health	5.75 credits
Personal Financial Literacy	2.5 credits
Electives	19.25 credits

\* In some cases, where transfer students from public schools have had no opportunity to receive credits for religion courses, the religion credit requirement may be adjusted.

## COURSE SELECTION

Programming of students into courses for the next school year begins in the spring. Incoming freshmen are assigned required courses of study and homogenously grouped where possible. A placement test is required as a central part of the assignment process. There is also a careful analysis of their junior high educational record, standardized testing, and parent/student preference forms.

Upperclassmen likewise begin scheduling for the following year's courses in the spring. Before registration takes place, course selection sheets are given to each student which list the required subjects and various electives for a particular grade level. Parental approval of all electives is required and the course selection sheet should also meet with the approval of Student Personnel Services. Selections are then entered into PowerSchool. The school reserves the right to make any changes in the student's chosen subjects when the circumstances dictate that such changes be made; e.g., failure of a subject at the end of the year; not meeting established criteria; lack of sufficient approval from subject-area teachers; discontinuation of a course due to lack of student registration; etc.

# RELIGION

## **Religion 1 - Understanding Catholic Christianity**

**Grade 9        5 credits**

**Group 2        Course Number: 0111**

This course offers the opportunity for students to get to know the Catholic heritage right at the beginning of their high school careers. Thus, students from many backgrounds and degrees of knowledge of Catholicism "get on the same page" with regard to the basics of the faith. They can develop a common vocabulary for understanding their later religion courses, which over the four years will build on the material covered in a brief way in this course.

## **Religion 2 - Sacred Scripture**

**Grade 10       5 credits**

**Group 2        Course Number: 0120**

### HEBREW SCRIPTURES

During the first few weeks students learn how to use their Bibles to look up specific books, chapters and verse. Once familiar with these, students begin a study, analysis and discussion sequence to facilitate their understanding of passages and to encourage reflection on how these can be applied to everyday life. The ultimate goal is for students to develop a deeper understanding of how God has worked in human history and still works in present times.

### NEW TESTAMENT

This study of Christology is geared toward high school students who have already been acquainted with the basic tenets of their faith. Jesus is presented in the light of the New Testament and Old Testament prophecy. The students are first given background information on the historical, geographical and cultural setting of the New Testament. The course then moves into a study of readings from the Gospels, with the emphasis on discovering the intentions of the various writers. The ethical teachings of Jesus are shown by use of the New Testament readings. The uniqueness of Jesus' teaching is noted through comparison to the Hebrew Scriptures.

## **Religion 3 - Sacraments & Christian Morality**

**Grade 11       5 credits**

**Group 2        Course Number: 0131**

**Note: There is a service component which must be completed each quarter for Religion 3.**

### SACRAMENTS

This course will have the student learn and demonstrate an understanding of concepts and history underlying the Catholic sacramental vision: grace, symbol, ritual, worship, prayer and the relationship between Jesus, the Church and the Seven Sacraments.

### CHRISTIAN MORALITY

This course has the students reflect on the thematic question, "What kind of person am I becoming and what kind of person do I want to become?" Jesus is presented as the perfect human model of Christian Morality. The course includes sources of help available on the moral journey and necessary for Christian life while reviewing the Roman Catholic Church's views on a variety of moral issues.

## Religion 4

Grade 12      5 credits

Group 2      Course Number: 0141

**Note: There is a service component which must be completed each quarter for Religion 4.**

This is a course rooted in Catholic Social Teaching (CST) and Social Justice. Students explore the seven Principles of CST in depth. Students analyze their experiences through hands-on service, class discussions, reflections, journals and speakers. This course integrates service learning into the curriculum through a 20-hour service requirement.



## Honors Religion 4 Service

Grade 12      5 credits

Group 2H      Course Number: 0148

**Prerequisites: Minimum cumulative GPA of 2.5; approval needed, scheduling not guaranteed.**

This is a course rooted in Catholic Social Teaching (CST) and Social Justice. Students explore the seven Principles of CST in depth as they connect each principle through both their independent service activities and through class trips. Students analyze their experiences through hands-on service, class discussions, reflections, journals and speakers. This course strongly integrates service learning into the curriculum through partnerships between faculty-led academic courses and community-based organizations. There will be both faculty-led service trips and independent service chosen by the students. Service requirements include: 60 hours of independent service, 15 per quarter; minimum of two different sites required; maximum of 20 hours can be completed in-school; participation in regularly scheduled (long period) in-class service trips; participation in at least two school-sponsored service activities.



# **ENGLISH**

## **English 1 - Literature and Composition**

**Grade 9            5 credits**

**Group 2            Course Number: 0212**

English I is designed to provide the student with a four-pronged approach to English language skills: Grammar, Composition, Vocabulary and Literature. Study skills are also integrated into this course in the first quarter.

Grammar work focuses on identifying parts of speech, usage problems and constructing complete sentences. Composition is approached through brief but frequent writing assignments with a concentration on producing a coherent and well-organized five paragraph essay with emphasis on analytical and critical thinking. Vocabulary is the first step in a four-year cumulative approach using small groups of related words. Literature is centered on a survey of the five major genres (short story, novel, non-fiction, drama and poetry). Major works studied include two novels assigned for summer reading, Shakespeare's *Romeo and Juliet* and a portion of Homer's *The Odyssey*.

## **English 1 Honors**

**Grade 9            5 credits**

**Group 2H          Course Number: 0260**

**Note: Placement in this course is determined by performance on the HSPT and a review of records by GCHS Guidance personnel.**

This is an accelerated course that encompasses the elements of English 1 (0210) while adding breadth and depth to the standard college prep English 1 course of study. Greater emphasis will be placed on analytical and critical thinking.

English 1 Honors is designed to provide the advanced student with a four-pronged approach to English skills: Grammar, Composition, Vocabulary and Literature. Grammar work focuses on identifying parts of speech, usage problems and construction of complete sentences. Composition is approached through brief but frequent writing assignments with a concentration on producing a coherent and well-organized five paragraph essay with more emphasis on analytical and critical thinking skills. Vocabulary is the first step in a four-year cumulative approach to the study of vocabulary using small groups of related words. Literature is centered on a survey of the five major genres (short story, novel, non-fiction, drama and poetry.) Major works studied include two novels assigned for summer reading, Golding's *Lord of the Flies*, Shakespeare's *Romeo and Juliet*, and Homer's *Odyssey*, Parts 1 and 2.

## **Applied Reading**

**Grade 9            5 credits**

**Group 3            Course Number: 0217**

**Note: This course is not approved as a Core Course for NCAA Division 1 or 2 eligibility.**

This course allows students to spend more time developing important reading and study skills which can be applied toward achievement in all areas of the curriculum. There is also an emphasis on literary appreciation and analysis, vocabulary, language skills and the development of critical thinking skills. Independent reading is strongly encouraged.

## English 2 – American Literature & Composition

Grade 10      5 credits

Group 2      Course Number: 0220

English 2 is a survey course of American Literature, beginning with the study of early American literature and taking the student through the historical time periods, continuing up to and including modern American literature. Representative selections from various genres in each time period are examined. Major work included is *The Great Gatsby*. Grammar is emphasized within the framework of composition. Vocabulary work is a continuation of the Sadlier-Oxford Vocabulary Workshop, in addition to the vocabulary from the literary selections. An expository/analytical research paper is required.



## English 2 Honors

Grade 10      5 credits

Group 2H      Course Number: 0223

**Prerequisites: Satisfactory completion of English I Honors. If space is available, will consider requests of qualified students; teacher approval necessary.**

Students who are in this accelerated course are highly motivated and have well-developed writing and critical-thinking skills. Students must be able to work independently, and possess a spirit of inquiry as they are expected to raise, as well as respond to, literary questions. The ability to read both literally and inferentially is essential. Critical reading and writing skills should be superior. This course will go beyond the standard American Literature curriculum, and will require more outside readings, more challenging vocabulary study, more self-directed writing assignments, and a more in-depth discussion of American Literature. Major work included is *The Great Gatsby*. An expository/analytical research paper is required.

## English 3 – British Literature & Composition

Grade 11      5 credits

Group 2      Course Number: 0232

English 3 focuses on a survey of British literature from *Beowulf* through the 20th Century. Major works include *Beowulf*, *Macbeth*, *The Canterbury Tales*, and *A Tale of Two Cities*. The development of English as a language is incorporated into the literature study. Selections are studied within the framework of the historical time period in which they were written. Composition work is done with an emphasis on SAT prompt timed writing assignments. A term paper is assigned that encompasses a well-written argumentative essay that reflects an issue from an approved topic list. Students will go beyond the traditional research paper and present an argument of their own that includes the analysis and synthesis of ideas from their sources. Vocabulary work continues with Vocabulary Power Plus for the New SAT.



### English 3 Honors

Grade 11 5 credits

Group 2H Course Number: 0231

**Prerequisites:** Satisfactory completion of English 2 Honors. If space available, will consider requests of qualified students; teacher approval necessary

English III Honors is recommended for highly motivated students who are capable of reading and writing more critically than other eleventh grade students. Honors students should be capable of working independently and possess a spirit of inquiry as they are expected to raise as well as respond to literary questions. The ability to read both literally and inferentially is essential. Critical reading and writing skills should be superior. This course will go beyond the standard British literature curriculum and will require additional textbook reading selections, more challenging vocabulary study, more self-directed writing assignments and a more in-depth discussion of British literature. The major works studied in-depth include *The Canterbury Tales*, *Macbeth*, *A Tale of Two Cities* and *Beowulf*. A term paper is assigned that encompasses a well-written argumentative essay that reflects an issue from an approved topic list. Students will go beyond the traditional research paper and present an argument of their own that includes the analysis and synthesis of ideas from their sources.

### Advanced Placement Language/Composition

Grade 11 5 credits

Group 1 Course Number: 0230

**Note:** Students taking this course are required to take the AP Language and Composition exam given in the spring (there will be a fee).



**Prerequisites:** excellent grades in completed English Honors 2 program; approval necessary

This “college course provides students with opportunities to write about a variety of subjects from a variety of disciplines and to demonstrate an awareness of audience and purpose” (College Board). Since our juniors historically have taken a survey course in British Literature, this course will have a dual purpose; to prepare our students for the rigorous challenges of understanding the world of Shakespeare, Chaucer, and Milton, as well as prepare them for the challenges of college writing. This course will emphasize both formal and informal writing styles with an emphasis on analytical, synthesis and argumentative writing. Since our students are faced every day with an ever increasing amount of information, it is crucial that they develop an insight into the rhetorical process. Major works studied include *Beowulf*, *Grendel*, *A Mercy*, *Fast Food Nation*, *The Canterbury Tales*, *Macbeth*, *Paradise Lost*, *The Dubliners*, *A Tale of Two Cities*, as well as non-fiction pieces from Bedford’s *The Language of Composition*. Vocabulary is reviewed using Prestwick House’s *Vocabulary Plus for the new SAT*. This is a **writing intensive** course which includes an eight to ten page research paper.

### English 4

Grade 12 5 credits

Group 2 Course Number: 0242

This senior course uses primary sources and focuses on a cross section of Western Literature. The major genres included are novel, drama, novella, short story and poetry. Major works include *Night*, *A Doll’s House*, *King Lear*, *The Dubliners*, *The Death of Ivan Ilych*, *Dante’s Inferno*, *Paradise Lost*, and *Genesis* along with a variety of poems from all over the world. Portfolio writing is done on a weekly basis with the submission of an edited piece on a quarterly basis. A Literary Analysis research paper is assigned along with an Argumentative/

Persuasive paper and several other shorter pieces. Vocabulary skills are honed through the continued use of *Sadlier's Vocabulary Workshop (Level G)*.

#### **English 4 Honors**

**Grade 12      5 credits**

**Group 2H      Course Number: 0241**

**Prerequisites: Satisfactory completion of English 3 Honors. If space available, will consider requests of qualified students; teacher approval necessary**

English 4 Honors is recommended for highly motivated students who are capable of reading analytically, writing clearly, thinking metaphorically and speaking articulately. Honors students are expected to work independently and cooperatively possessing a spirit of inquiry that sets them apart. Major works include *Night*, *Hamlet*, *As You Like It*, *The Dubliners*, *Dante's Inferno*, *Doctor Faustus*, and *Paradise Lost* along with a selection of short stories and poetry that will inspire and challenge. Portfolio writing is done weekly and will culminate with the submission of a completed essay quarterly. Vocabulary skills are sharpened through the use of *Vocabulary Power Plus for College & Career Readiness- Level Twelve*.

#### **Advanced Placement Literature & Composition**

**Grade 12      5 credits**

**Group 1      Course Number: 0240**

**Note: Students taking this course are required to take the AP Literature and Composition exam given in the spring (there will be a fee).**

**Prerequisites: Excellent grades in English 3 Honors or satisfactory completion of AP LANG & COMP (0230)**

This challenging Advanced Placement course will engage students in the careful reading and critical analysis of imaginative literature. Close reading of a large number of selected texts will help students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. Students will be taught to consider a work's structure, style, themes, use of language, imagery, symbolism and tone. Readings will be from a multitude of genres, time periods and cultures, but with a primary focus on the "best books" first. There will be a great deal of writing about literature involved. Students will be expected to take the AP exam at the end of the year. Vocabulary study continues, using *Latin and Greek Roots* from Prestwick House, Inc.

#### **Multi-Media Communications & Design**

**Grade 12      5 credits**

**Group 2      Course Number: 0254**

**Note: This course is not approved as a Core Course for NCAA Division 1 or 2 eligibility.**

This course offers students the opportunity to study communications beyond traditional forms. Students will learn to develop critical thinking skills by evaluating the legitimacy and authority of various media sources. They will present their ideas in a variety of media, producing work which may include web and traditional print articles, blogs, video and photojournalism, podcasting, and social media. They will also learn to pitch story ideas, investigate leads, conduct interviews, organize information, and write, revise and edit various types of stories. The class will also study the effects of new forms of media, such as texting, Facebook, and Twitter, and learn ways to become better critics of the media and to present themselves professionally using 21st Century communication skills.

# **SOCIAL STUDIES**

## **World History**

**Grade 9      5 credits**

**Group 2      Course Number: 0311**

This required course is designed to relate past to present through the study of historic and contemporary interrelationships of countries and individuals. The course emphasizes a global perspective beyond the traditional Eurocentric approach. Emphasis will be placed on major events and issues which should be considered turning points or trends in World History as well as significance of underlying causes and effects and their chronological development. Areas of study will begin with development of the modern human and end with the Age of Exploration. Students will examine the European effect on the development of the United States of America.

## **United States History 1**

**Grade 10, 11   5 credits**

**Group 2      Course Number: 0322**

This required course is designed to give students a strong background in American History and to prepare the student for US History II. Emphasis will be placed on facts from the Colonization of America up to and including the United States during the Gilded Age (latter 1600's-1880's). A substantial segment of time will be dedicated to the US Constitution in an effort to familiarize the students with all levels of the American Governmental model. A second semester term paper is required.

## **United States History 1 Honors**

**Grade 10, 11   5 credits**

**Group 2H      Course Number: 0321**

**Prerequisites: Honors level student; satisfactory completion of World History; if space available, will consider requests of qualified students; teacher approval necessary**



This is an intensive course in US History I covering the time periods of Colonization in America to the Gilded Age of United States History- years from the latter 1600's to 1880's. In addition to the normal course of studies (in course number 0322), students will examine in-depth such topics as the Revolutionary War, Constitution of the US, and the Civil War. Students will be expected to submit several analytical essays, a book review and a formal term paper.

## **Personal Finance / Economics**

**Grade 11      2.5 credits**

**Group 2      Course Number: 0329**

In this required, semester-long course, students will develop skills and master concepts that will promote personal financial literacy. Topics to be discussed include: Income and Careers; Money Management; Credit and Debt Management; Planning, Saving, and Investing; Becoming a Critical Consumer; Civic Financial Responsibility; Risk Management and Insurance. Students will practice calculating various items that are budgetary in nature and that affect Americans on a daily basis -- such as banking, investing, etc.

## **United States History 2**

**Grade 11, 12 5 credits**

**Group 2 Course Number: 0332**

**Prerequisites: successful completion of United States History 1**

This course is a required continuation of US History I and covers the time period from the 1880's to the Vietnam Era of American History. Emphasis will be placed on major events and issues that are turning points in US History. Significant time is devoted to the US Presidency, foreign affairs, the WWII era and the Cold War. Students will examine how the United States developed into a modern world power. Term paper is required.

## **United States History 2 Honors**

**Grade 11, 12 5 credits**

**Group 2H Course Number: 0331**

**Prerequisites: Honors level student; satisfactory completion of US History I Honors; if space available, will consider requests of qualified students; teacher approval necessary**

As with US History II, this honors-level course covers the time period from the 1880's to the Vietnam Era of American History. Emphasis will be placed on major events and issues that are turning points in US History. Significant time is devoted to the US Presidency, foreign affairs, the WWII era and the Cold War. Students will examine how the US developed into a modern world power. Students will be expected to submit several analytical essays, a book review and a formal term paper.

## **American Government / Current Events**

**Grade 11, 12 5 credits**

**Group 2 Course Number: 0353**

This elective course will focus on the core concepts of American government while analyzing the role America plays in the modern world. Students will evaluate and examine the Constitution as the framework of US law, the branches of government and the power each of these branches hold, the role of the individual citizen and the rights assigned to these citizens. Current events will be emphasized in order to familiarize students with current issues facing our government. Relevant and topical issues will be discussed throughout the year.



## **Sociology**

**Grade 11, 12 5 credits**

**Group 2 Course Number: 0352**

This course uses sociological theories to better know and understand ourselves through culture and society. Individual investigation and group discussion will be used in the study of cultural anthropology, social change, rural and urban problems, poverty, crime and punishment as well as other related topics.

## Psychology

Grade 12      5 credits

Group 2      Course Number: 0341

This course is an introductory study of the social science of psychology. Topics include: the process of learning, states of consciousness, intelligence and creativity, personality, affective and emotional aspects of behavior, abnormal behavior, language and thought, and mental health. Students will be introduced to the methods used in psychological research as well as the theories of Freud, Skinner, Maslow, Rogers, Kohlberg, Piaget, Erikson, Jung, Adler, Homey, Kubler-Ross, Sullivan and others.



## Advanced Placement Psychology

Grade 12      5 credits

Group 1      Course Number: 0340

**Note: Students taking this course are required to take the AP Psychology exam given in the spring (there will be a fee).**

**Prerequisites: Cumulative GPA of at least 3.0; AP Potential**

This Advanced Placement course is meant to challenge students to the rigorous coursework of an introductory college-level class. From the College Board's AP Psychology Course Purpose: "The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice." The student will be expected to actively read and understand a college-level textbook, integrate lectures, activities and projects that supplement the required curriculum to successfully complete the AP Exam.

## Advanced Placement United States History

Grades 11, 12      5 credits

Group 1      Course Number: 0351

**Note: Students taking this course are required to take the AP American History exam given in the spring (there will be a fee).**

**Prerequisites: A minimum of a 3.0 cumulative GPA. Strong writing skills; AP Potential.**

This course is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials in United States History. It is designed to give students a grounding in major interpretive questions that derive from the study of selected themes - the colonial period, the American Revolution, The Jacksonian period, the ante-bellum south, Reconstruction, Populism, Progressivism, causes of the world wars, the New Deal, and international affairs and domestic change in the post-1945 period.

It will prepare students for intermediate and advanced college courses by making demands upon them equivalent to those of full year introductory college courses. They should develop skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format.

# MATHEMATICS

## Pre-Algebra

Grade 9      5 credits

Group 3      Course Number: 0417

*Note: This course is not approved as a Core Course for NCAA Division 1 or 2 eligibility.*

This course presents a concentrated review of the fundamentals of arithmetic, including: fractions, decimals, percents as well as operations with positive and negative numbers. It introduces topics from Algebra and Geometry, and includes presentations of mathematical concepts to prepare the student for the study of Algebra.

## Algebra 1

Grade 9, 10    5 credits

Group 2      Course Number: 0412

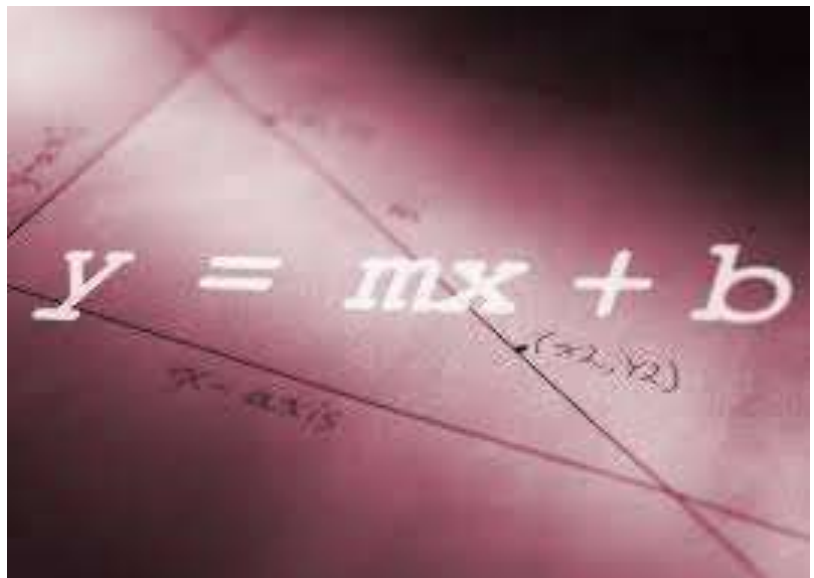
This course is designed for the academic student. Topics include: applications of the real number system to expressions, equations and inequalities; solutions of equations and inequalities, including absolute value and quadratics; representations of problems and situations as linear equations and inequalities or systems of equations or inequalities; analysis of linear functions as expressions or graphs including slope and intercepts; operations and factoring with polynomials; real world models, including those that involve two and three dimensional figures and solids, interpreted as expressions, and equations; defense of decisions, models and algorithms with mathematical logic. This course is intended for the college-bound student and is a graduation requirement.

## Algebra 1 Honors

Grade 9      5 credits

Group 2H      Course Number: 0462

This is an accelerated course that covers the Algebra 1 curriculum topics to a greater depth and breadth. Topics include: applications of the real number system to expressions, equations and inequalities; solutions of equations and inequalities, including absolute value and quadratics; representations of problems and situations as linear equations, inequalities or systems of equations or inequalities; analysis of linear functions as expressions or graphs including slope and intercepts; operations and factoring with polynomials; real world models, including those that involve two and three dimensional figures and solids, interpreted as expressions and equations; defense of decisions, models and algorithms with mathematical logic. This course emphasizes algebraic theory and graphing. The course is intended for the college-bound student.





## **Geometry: Skills and Concepts**

**Grade 10**      **5 credits**

**Group 3A**      **Course Number: 0427**

*Note: This course is not approved as a Core Course for NCAA Division 1 or 2 eligibility.*

**Prerequisites: Successful completion of Algebra 1.**

This course covers the topics typically found in standardized tests such as the SAT. Students are encouraged to draw, construct and model geometric shapes in the study of the core geometric concepts: angles, polygons and polyhedra, congruent and similar figures, parallel and perpendicular lines, quadrilaterals, areas and perimeters, square roots, right triangles and circles. This course fulfills a graduation requirement.

## **Geometry**

**Grade 10, 11, 12**      **5 credits**

**Group 2**      **Course Number: 0420**

**Prerequisites: Successful completion of Algebra 1.**

The course covers the undefined terms of point, line and plane and develops the study of Geometry through a system of postulates and theorems applied deductively. Topics include: the meaning of geometric definitions, theorems and postulates to interpret, represent and solve problems; properties of lines (parallel and perpendicular) and geometric figures (triangles, quadrilaterals, regular polygons and circles), including types, transformations, translations, congruency, similarity and relationships; incorporation of algebraic skills in problem solving within the context of geometric concepts, including right triangle trigonometry; problems involving perimeter, area (surface and lateral) and volume of two-dimensional shapes and three-dimensional solids; applications of geometric principles to model real world situations and solve real world word problems; defense of decisions, models and algorithms with mathematical logic. The course is intended for the college-bound student and is a graduation requirement.

## **Geometry Honors**

**Grade 9, 10**      **5 credits**

**Group 2H**      **Course Number: 0421**

**Note: In order for a ninth-grader to take this course, he/she must have successfully completed a full year of Algebra 1 in 8<sup>th</sup> grade, AND pass the GCHS Algebra 1 exam with a grade of C+ or higher (can arrange to take the GCHS exam in the spring of 8<sup>th</sup> grade year).**

**Prerequisites: Successful completion of Algebra 1 Honors or, if space permits, will consider those students who excelled in Algebra 1, with teacher approval.**

This course covers the undefined terms of point, line and plane and develops the study of Geometry through a system of postulates and theorems applied deductively. Formal, two column proofs are generated by the students. Topics include: the meaning of geometric definitions, theorems and postulates to interpret, represent and solve problems; properties of lines (parallel and perpendicular) and geometric figures (triangles, quadrilaterals, regular polygons and circles), including types, transformations, translations, congruency, similarity and relationships; incorporation of algebraic skills in problem solving within the context of geometric concepts, including right triangle trigonometry; problems involving perimeter, area (surface and lateral) and volume of two-dimensional shapes and three-dimensional solids; applications of geometric principles to model real world situations and solve real world word problems; defense of decisions, models and algorithms with mathematical logic. The course is intended for the college-bound student.

## Algebra 2

Grade 11, 12 5 credits

Group 2 Course Number: 0431



**Prerequisites:** Successful completion of Algebra 1 and Geometry.

This course further develops algebraic thinking skills and improves manipulation skills. Topics include: the solution of polynomial and exponential equations, including work with radicals, complex numbers, logarithms, and extraneous solutions; models of real-world situations using linear, quadratic and exponential expressions, equations, inequalities or systems of equations and inequalities; defense of decisions, models and algorithms related to rational, radical, logarithmic and exponential expressions and polynomial equations in one variable with mathematical logic; operations with complex numbers, polynomials and rational expressions as skills and in applications to word problems; interpretation of inverse relationships between functions graphically and algebraically, including basic trigonometric functions. The course is intended for the college-bound student.

## Honors Algebra 2/ Trigonometry

Grade 10, 11 5 credits

Group 2H Course Number: 0437

**Note:** Department/Guidance approval required.

**Prerequisites:** Students who successfully completed Honors Geometry or who were exceptional students in Algebra 1 or Algebra 1 Honors and wish to take this course along with Honors Geometry.

This is an accelerated course that covers the Algebra II curriculum topics with greater depth and breadth, and includes the study of trigonometry. Topics include: the solution of polynomial and exponential equations, including work with radicals, complex numbers, logarithms, and extraneous solutions; models of real-world situations using linear, quadratic and exponential expressions, equations, inequalities or systems of equations and inequalities; defense of decisions, models and algorithms related to rational, radical, logarithmic and exponential expressions and polynomial equations in one variable with mathematical logic; operations with complex numbers, polynomials and rational expressions as skills and in applications to word problems; interpretation of inverse relationships between functions graphically and algebraically; analysis of trigonometric functions graphically and algebraically. The course is intended for the college-bound student.

## Business Math 1

Grade 10, 11, 12 5 credits

Group 3 Course Number: 0438

*Note: This course is not approved as a Core Course for NCAA Division 1 or 2 eligibility.*

When taking this course, students will review fundamental number concepts such as estimation, fractions, decimals and percents. These arithmetic skills are then applied to real life situations and work-place considerations. Topics covered include: employee reimbursements, balancing a checkbook, creating budgets, responsible use of credit cards, and borrowing money for a home or automobile purchase.

## **Business Math 2**

**Grade 11, 12 5 credits**

**Group 3 Course Number: 0439**

*Note: This course is not approved as a Core Course for NCAA Division 1 or 2 eligibility.*

When taking this course, students will strengthen their arithmetic skills and apply the concepts to everyday life. Topics covered include: interpreting tables, graphs and statistics; filling out tax forms; balancing a checkbook; money management through budgeting; fundamentals of being a knowledgeable consumer.



## **Accelerated Pre-Calculus**

**Grade 11, 12 5 credits**

**Group 1 Course Number: 0448**

**Note: A graphing calculator is necessary; it is not provided by the school.**

**Prerequisites: Algebra I, Geometry, Honors Algebra II/ Trigonometry.**

This accelerated course is designed to further develop the conceptual and analytical mathematical skills and thought processes of the student. Topics included are: the graphing calculator and its functions and capabilities; coordinate geometry and conic sections; functions including, exponential, logarithmic, rational, polynomial, and trigonometric; trigonometric identities including sum, difference, double and half angle identities; solution of rational, radical, exponential, logarithmic and trigonometric equations and inequalities; solve oblique triangles and apply trigonometric solutions to real-world triangular situation; analysis of sequences, series, binomial expansion, summation notation, combinatorics, probabilities and distribution; defense of decisions, models and algorithms with mathematical logic. The course is intended to prepare the student for the study of calculus.

## **Probability/Statistics**

**Grade 11, 12 5 credits**

**Group 2 Course Number: 0444**

**Prerequisites: Algebra 1, Geometry, Algebra 2.**

This course is for students who want to learn what is meant by the statistics that are quoted in the news and who want to understand basic principles of probability. The primary focus of the course is on data interpretation and presentation. It also covers topics that prepare a student for an introductory statistics class for the social sciences in college.

## Pre-Calculus CP

Grade 12 5 credits

Group 2 Course Number: 0445

**Prerequisites:** Algebra 1, Geometry, Algebra 2.

For the college bound student, Pre-Calculus is designed to be a thorough study of Trigonometry and a review of Algebra with advanced topics. Topics include: Right triangle trigonometry and applications; area and solutions of oblique triangles; trigonometric functions as defined for angles on the coordinate plane; angles as measured in degrees and radians; graphs of trig functions; inverse functions; application of trigonometric identities, including sum/difference and double angle identities; solutions of trigonometric equations; review of basic mathematics and elementary Algebra specifically aimed at college basic skills tests; complex numbers; exponential and logarithmic functions; conic sections; defense of decisions, models and algorithms with mathematical logic.

## Honors Probability/Statistics

Grade 12 5 credits

Group 2H Course Number: 0440

**Prerequisites:** Cumulative GPA of at least a 3.0.

For the serious math student. Topics that are presented include: statistical descriptions; possibilities and probabilities; probability distributions; normal distribution and sampling; mean and standard deviation.

## Advanced Placement Calculus AB

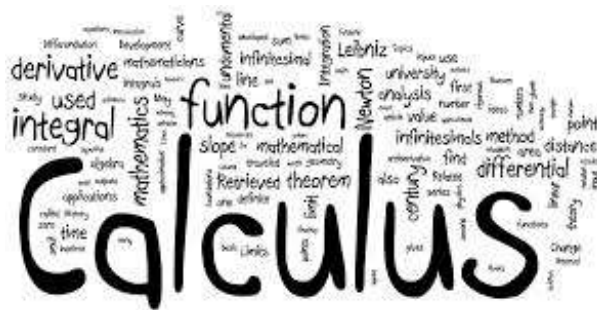
Grade 12 5 credits

Group 1 Course Number: 0443

**Note:** Students taking this course are required to take the AP Calculus AB exam given in the spring (there will be a fee). A graphing calculator is necessary; it is not provided by the school.

**Prerequisites:** Successful completion of Accelerated Pre-Calculus.

This is a course for the college bound student who wants to study Calculus. The graphing calculator is used extensively throughout the year. Topics included in the course are: functions and limits; differentiation and application; integration and application; trigonometric, logarithmic and exponential functions and their derivatives.



## SCIENCE

### Earth Science

Grade 9      5 credits

Group 2      Course Number: 0513

This course begins with an introduction to Environmental Science and our responsibilities as caretakers of the earth. Labs are incorporated into the framework of the course to emphasize the importance of the subjects covered. This course also covers geology, meteorology, astronomy and physics. Field trips and environmental service projects are interjected throughout the year.



### Biology (grade 9 accelerated)

Grade 9      5 credits

Group 2      Course Number: 0511

**Note: Placement in this course is determined by performance on the HSPT and a review of records by GCHS Guidance personnel. It is reserved for those who qualify for our accelerated program.**

This is a full year course for accelerated freshmen designed to introduce the science of Biology. This laboratory course focuses on the organization of life at the chemical and cellular levels, as presented in unit one. The development of scientific knowledge and evolution are covered in the next two units. We then discuss invertebrates and their phyla and major classes. Finally we discuss vertebrates and each of their major classes. Movies and labs are used to reinforce learning.

### Biology

Grade 10      5 credits

Group 2      Course Number: 0520

This laboratory course focuses on the organization of life at the chemical and cellular levels as presented in unit one. The development of scientific knowledge in genetics and evolution is covered in unit two. We then discuss invertebrates and their phyla and major classes. Finally we discuss vertebrates and each of their major classes. Movies and labs are used to reinforce learning.

### Chemistry (grade 10 accelerated)

Grade 10      5 credits

Group 2      Course Number: 0521

**Prerequisites: Successful completion of Biology (accelerated) as a Freshman.**

A full year course in Chemistry for accelerated Sophomores concerned with the study of atomic structure, electron configuration, bonding, formulas, equations, reactions, periodicity, gas laws, solutions, acids/bases/salts, rates of reaction, equilibrium, organic and nuclear chemistry.

## **Chemistry**

**Grade 11, 12 5 credits**

**Group 2 Course Number: 0532**

This is a full-year laboratory course in Chemistry concerned with the study of atomic structure, electron configuration, bonding, formulas, equations, reactions, periodicity, gas laws, solutions, acids/bases/salts, rates of reaction, equilibrium, organic and nuclear chemistry.

## **Physical Science**

**Grade 11 5 credits**

**Group 2 Course Number: 0557**

This is an alternative course for juniors not taking Chemistry. This one year laboratory course will cover basic concepts in Chemistry and Physics. Topics to be covered include measurement, atomic structure, matter, chemical changes, energy, sound, light, electricity, magnetic and nuclear

## **Anatomy & Physiology**

**Grade 11, 12 5 credits**

**Group 2 Course Number: 0555**

**Prerequisites: C average in both Biology and Chemistry/Physical Science required.**

This is a full-year course designed for those students who are interested in pursuing careers such as nursing, physical education, physical therapy, etc. It may also be elected by any student who is simply interested in a comprehensive study of the human body without wishing to pursue a career in the related fields.

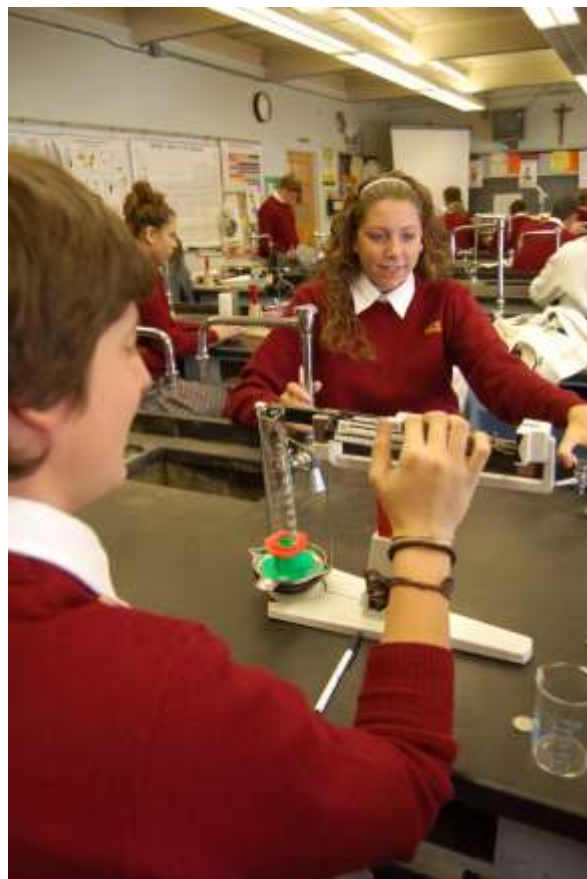
## **Honors Physics**

**Grade 11, 12 5 credits**

**Group 2H Course Number: 0559**

**Prerequisites: Successful completion of Biology & Chemistry and Algebra 1 & Geometry.**

This laboratory course introduces the student to the fundamentals of Physics. A full half-year is spent on improving applied measurement and math skills as well as learning the basics of Mechanics and Optics as well as introducing the student to electricity, magnetism and thermodynamics.



### **Advanced Placement Biology**

**Grade 11, 12 5 credits**

**Group 1 Course Number: 0553**

**Note: Students taking this course are required to take the AP Biology exam given in the spring (there will be a fee). Class size can be limited.**

**Prerequisites: Successful completion of Chemistry. At least a 3.0 cumulative GPA.**

A course designed to give an in-depth overview of biology including different aspects of life (study of, integration of, unity of, continuity of); integration of life processes; biological behavior; populations, communities, and natural selection; and human biology.

### **AP Physics 1**

**Grade 11, 12 5 credits**

**Group 1 Course Number: 0566**

**Note: Students taking this course are required to take the AP Physics 1 exam given in the spring (there will be a fee).**

**Prerequisites: Students should have completed both Geometry and Algebra II with a grade of a C+ or better. At least a 3.0 cumulative GPA.**



This laboratory class is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through inquiry-based investigations as they explore the principles of Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits.

### **Advanced Placement Chemistry**

**Grade 11, 12 5 credits**

**Group 1 Course Number: 0554**

**Note: Students taking this course are required to take the AP Chemistry exam given in the spring (there will be a fee). Class size can be limited.**

**Prerequisites: Successful completion of Chemistry. At least a 3.0 cumulative GPA.**

This laboratory course is for students who have demonstrated a high level of ability as well as an interest in Math and Science. It is designed as a college level course. Lecture, reading, problem solving and lab experiences are fundamental aspects.

## **Advanced Placement Environmental Science**

**Grade 11, 12 5 credits**

**Group 1 Course Number: 0558**

**Note: Students taking this course are required to take the AP Environmental Science exam given in the spring (there will be a fee). Class size can be limited.**

**Prerequisites: Successful completion of Biology and Chemistry. At least a 3.0 cumulative GPA; AP Potential.**

Through labs, field trips, discussion and class work, students will explore environmental issues that face the world today. Hot topics will be explored and emphasis will be placed on finding viable solutions. The goal of this course is to awaken in each student an awareness of the Earth and to make the Earth sustainable for future generations.

## **Forensic Science**

**Grade 11, 12 5 credits**

**Group 2 Course Number: 0563**

**Prerequisites: Successful completion of Biology and Chemistry/Physical Science.**

Forensic Science is designed to introduce students to the scientific methods used to answer legal questions and to solve crimes. As a half-year elective, this course is developed to meet the needs of diverse learners. Content includes: crime scene investigation, types of evidence, collection of physical evidence, identifying individuals using evidence, entomology and bringing evidence to court. A variety of instructional strategies will be used, including: textbook reading, presentations, videos, small and large group discussion, guest speakers, hands-on activities, labs, projects and Internet research. Students will be assessed both formally and informally. Upon successful completion of the course, students will understand the science behind this popular field.



## FOREIGN LANGUAGE

### **Spanish 1**

**Grade 9, 10, 11      5 credits**

**Group 2      Course Number: 0610**

Students learn to recognize, pronounce and understand the new language. While the four language skills-- understanding, speaking, reading and writing--are stressed, greater emphasis is placed on proper pronunciation and listening comprehension. Fundamental grammatical structures of the language are introduced along with an exposure to the social and cultural aspects of Spanish speaking people.

### **Spanish Grammar 1**

**Grade 9, 10, 11      5 credits**

**Group 3A      Course Number: 0619**

*Note: This course is not approved as a Core Course for NCAA Division 1 or 2 eligibility.*

This course is an option for students whose language arts skills are adequate but not strong. This class focuses on the rudiments of language acquisition, introducing the Spanish language to the students through oral & written work. Speaking and vocabulary are combined with grammar. Great emphasis is placed on the comprehension of the language.

### **French 1**

**Grade 9, 10, 11      5 credits**

**Group 2      Course Number: 0611**

Students learn to recognize, pronounce and understand the new language. While the four language skills-- understanding, speaking, reading and writing--are stressed, greater emphasis is placed on proper pronunciation and listening comprehension. Fundamental grammatical structures of the language are introduced along with an exposure to the social and cultural aspects of French speaking people.

### **Spanish 2**

**Grade 10, 11, 12      5 credits**

**Group 2      Course Number: 0651**

**Prerequisites: Requires successful completion of Spanish 1 with a grade of "C" or better.**

This course begins with a thorough review of fundamentals and vocabulary taught in the first year. Reading, comprehension, conversation and rudimentary attempts at composition are basic to the course. By the end of the second year, students should be able to understand spoken Spanish fairly well, read for comprehension and communicate in simple written form.

### **Spanish Grammar 2**

**Grade 10, 11, 12      5 credits**

**Group 3A      Course Number: 0659**

*Note: This course is not approved as a Core Course for NCAA Division 1 or 2 eligibility.*

**Prerequisites: Successful completion of a Spanish 1 course.**

Spanish Grammar 2 is strongly recommended for those students who had Spanish Grammar 1.

## **French 2**

**Grade 10, 11, 12      5 credits**

**Group 2      Course Number: 0621**

**Prerequisites: Requires successful completion of French 1 with a grade of "C" or better.**

This course begins with a thorough review of fundamentals and vocabulary taught in the first year. Reading, comprehension, conversation and rudimentary attempts at composition are basic to the course. By the end of the second year, students should be able to understand spoken French fairly well, read for comprehension and communicate in simple written form.



## **Spanish 3**

**Grade 11, 12      5 credits**

**Group 2      Course Number: 0631**

**Prerequisites: Requires successful completion of Spanish 2 with a grade of "C" or better.**

The primary emphasis of this course is for students to achieve a satisfactory command of the language. Emphasis is placed on developing fluency and accuracy in oral communication and self expression including oral presentations. Reading and writing are stressed throughout the course. The language is presented within the context of the contemporary world and various cultures.

## **French 3**

**Grade 11, 12      5 credits**

**Group 2      Course Number: 0632**

**Prerequisites: Requires successful completion of French 2 with a grade of "C" or better.**

The primary emphasis of this course is for students to achieve a satisfactory command of the language. Emphasis is placed on developing fluency and accuracy in oral communication and self expression including oral presentations. Reading and writing are stressed throughout the course. The language is presented within the context of the contemporary world and various cultures.

## **Spanish 4**

**Grade 11, 12      5 credits**

**Group 2      Course Number: 0641**

**Prerequisites: Requires successful completion of Spanish 3 with a grade of "C" or better.**

The 4th level of Spanish includes in-depth mastery of the various tenses and moods of the verbs. More emphasis is placed on reading and writing along with continued use of conversation.

## **BUSINESS/TECHNOLOGY**

### **Computer Applications**

**Grade 10, 11, 12      5 credits**

**Group 2      Course Number: 0751**

The student will become familiar with the generalities of computers--history, hardware and software, computer crime, privacy, the future of computers, as well as career options. An applications software package containing word processing, spreadsheet, and PowerPoint will be presented. Students use a textbook for step-by-step instructions using the various applications. They will create several independent projects, including a final cumulative project which all students must complete. A basic understanding of word processing is necessary. Students will learn about the advanced features of each of these applications. Current events projects will enhance student learning in the technology.



### **Accounting 1**

**Grade 11, 12      5 credits**

**Group 2      Course Number: 0757**

This is a basic course in accounting designed to enable the student to develop vocational skills for recording, analyzing, and interpreting business operations from a financial standpoint. Students learn to evaluate transactions with the 9 steps of the Accounting Cycle. Students will prepare income taxes, and perform personal banking activities.

### **Sports & Entertainment Marketing**

**Grade 11, 12      5 credits**

**Group 2      Course Number: 0760**

Sports and Entertainment Marketing is a specialized course for students with a career interest in the Sports or Entertainment Industry. The emphasis of this course is on career-related opportunities that include Operations Management, Human Resource Management, Marketing, Event Planning, and Information Technology. Students will be given first-hand knowledge of the Sports and Entertainment industry through on-site visitations, guest lectures, case studies, group projects, and simulated management and decision making processes.

### **Building Android Apps**

**Grade 11, 12      5 credits**

**Group 2      Course Number: 0770**

**Prerequisites: Successful completion of Computer Applications or teacher recommendation. B average in Algebra 1 and Geometry.**

**This course has not been approved for NCAA Clearinghouse purposes.**

This course will provide an introduction to programming concepts and logic, while beginning with a “hands-on” approach to the practical development of working apps for the Android platform. You will learn many of the common tools, guiding principles and best practices of mobile development. In addition, you will also learn some basics of coding in the Java language.

## HTML & Web Design

Grade 11, 12 5 credits

Group 2 Course Number: 0768

**Recommendations:** Should have a solid grasp of basic computing operations, Algebra 1, Geometry and Algebra 2 with a grade of "B" or better. Special approval can be requested.

This advanced computer course, for those who have already achieved a fundamental knowledge of Windows-based operating systems and application software, will provide a student with an introduction to HTML (HTML5), JavaScripting and Cascading Style Sheets. In addition, basic history of the Internet and fundamental concepts of networking will be introduced.



## Computer Programming (with AP Computer Science A option)

Grade 11-12 5 credits

Group 1 Course Number: 0799

**Prerequisites:** Requires successful completion of Computer Applications, Algebra 1, Geometry and Algebra 2 with a grade of "B" or better.

**This course has not been approved for NCAA Clearinghouse purposes.**



This is an introduction to object-oriented computer programming with Java. It will introduce students to computer science with topics that include problem-solving, design strategies and methodologies, data structures, algorithms, analysis of potential solutions, and the ethical and social implications of computing. The course is designed to cover the material required for the AP Computer Science A exam. Taking this AP exam is optional for this course.

## Online Advanced Computer Courses

All of the following courses are offered in a virtual, on-line course format. Although a teacher/proctor will be in the room during the scheduled period, all content and instruction will be delivered through the on-line system. Some courses are designed to last one semester (those that comprise only 2.5 credits) and **you must pick two**. Some have pre-defined progressions in which they must be taken - listed in the prerequisites area of the course description. Five credit courses last the entire year.

Student-athletes should be aware that these courses are NOT approved as NCAA core courses and cannot be used as such in determining NCAA athletic eligibility.

Most of the courses are designed as preparation for an industry certification exam. The actual exams, which are administered at various testing centers around the country and involve a separate fee, are **not** included in the course and are not required at the end of the course (although it is highly recommended that students attempt them at the completion of the prep course, while the information is fresh in their minds). Many of the courses can result in a TestOut certification (at no cost), if the core competency exam at the end of the course is passed.

### **IT Fundamentals**

**Grade 10, 11, 12      2.5 credits**  
**Group 2              Course Number: 0786**

This course introductory IT course prepares students for the CompTIA IT Fundamentals Test (FC0-U61) and the TestOut IT Fundamentals Pro certification. It is a great course for students considering careers in information technology, as it provides foundational concepts, knowledge and skills used in the industry.

### **PC Pro**

**Grade 11, 12    5 credits**  
**Group 2              Course Number: 0793**

**Prerequisites: Requires successful completion of Computer Applications, Algebra 1, and Geometry and with a grade of "B" or better. The Computer Applications requirement may be waived for those able to demonstrate advanced computer proficiency (requires approval in order to have requirement waived).**

The PC Pro training course covers all information needed for the two CompTIA A+ exams (220-1001 and 220-1002). This course will take your knowledge and skill level in PC repair and service from novice to pro. You will learn how to build, configure, and maintain a PC as well as learn the basics of networking and security. Using video tutorials, demonstrations, and hands-on lab simulations, you will not only be able to prove that you know the material, you will also be able to demonstrate you can perform the IT tasks that employers look for.

## **Network Pro**

**Grade 11, 12 5 credits**

**Group 2 Course Number: 0795**

**Prerequisites: Requires successful completion of Computer Applications, Algebra 1, and Geometry and with a grade of "B" or better. Also, you should have completed the PC Pro course before taking this one. The Computer Applications requirement may be waived for those able to demonstrate advanced computer proficiency (requires approval in order to have requirement waived).**

This course is a complete training course in networking concepts. You will learn how to install networking hardware, configure a small office/home office (SOHO) network, and connect mobile and desktop devices to a network. Thorough lessons, demonstrations, and exams, as well as upgraded hands-on labs and new videos, give you real experience in networking.

The Network Pro course prepares you for the following industry certifications:

- TestOut Network Pro certification
- CompTIA Network+ (N10-007) certification

Note: PC Pro training is recommended before starting Network Pro training.

## **Security Pro**

**Grade 11, 12 5 credits**

**Group 2 Course Number: 0796**

**Prerequisites: Requires successful completion of Computer Applications, Algebra 1, and Geometry and with a grade of "B" or better. The Computer Applications requirement may be waived for those able to demonstrate advanced computer proficiency (requires approval in order to have requirement waived). You should have also completed the PC Pro and a course in Networking to benefit most from this course.**

This course will give you the knowledge and the experience you need to enter the industry as an entry-level IT security administrator. Security Pro builds on the experience users gain in PC Pro and Network Pro courses. In those courses, you've learned how to maintain PCs and setup a corporate network, now Security Pro will show you how to protect that network from a myriad of threats. TestOut (the provider of this course) looks at certification a bit differently than others in the industry. Their goal is to make training that prepares you to get certified and gives you the hands-on skills IT employers are looking for. This is why they took a comprehensive approach to developing the Security Pro course. When you complete the Security Pro course, you should be prepared to take either of these certification exams:

- TestOut's Security Pro Certification exam
- CompTIA's Security+ exam (SY0-501)

**Routing and Switching Pro****Grade 11, 12 5 credits****Group 2 Course Number: 0797**

**Prerequisites: Requires successful completion of Computer Applications, Algebra 1, and Geometry and with a grade of "B" or better. Should also have completed a Computer Networking course.**

This course prepares students for the following Cisco exams: ICND1v3, ICND2v3, and CCNAv3. It focuses on implementing, managing, protecting, and troubleshooting small to medium size enterprise branch networks. Topics covered will include: networking concepts, Cisco devices, LAN implementation, wireless networks, sub-netting, WAN implementation, advanced switching, access lists, IP routing, troubleshooting, frame relay, advanced TCP/IP configuration, and network security.

**Ethical Hacker****Grade 11, 12 2.5 credits****Group 2 Course Number:**

**Prerequisites: Network Pro and (preferably) Security Pro**

Ethical Hacker teaches students to be aware of network attack strategies and common countermeasures. Ethical Hacker prepares students to use various penetration testing tools to analyze networks for vulnerabilities. Knowledge of these vulnerabilities also helps students to understand how to counter these vulnerabilities and improve network security.

## **FINE & PRACTICAL ARTS**

### **Intro to Art**

**Grade 9      1.25 credits**

**Group 5      Course Number: 0880**

This course is designed to cover the fundamentals of art and connecting projects in class to art masters and/or art movements.

### **Art 1**

**Grade 11, 12   5 credits**

**Group 3      Course Number: 0852**

An introduction to drawing, sculpture, perspective, lettering and design is the basis of this course. These students will incorporate the instruction given with their own creativity to produce works of art in pencil, charcoal, pen and ink, and clay. Still life and real life drawings will be done. Field trips may be included.

### **Art 2**

**Grade 12      5 credits**

**Group 3A      Course Number: 0853**

**Prerequisites: Requires successful completion of Art 1.**

This course is a continuation of the fundamentals learned in Art I, together with more specific instruction in drawing, painting, color theory, and composition.

### **Art 3**

**Grade 12      5 credits**

**Group 3A      Course Number: 0854**

**Prerequisites: Requires successful completion of Art 1 and approval by the Art teacher.**

Taken in conjunction with Art 2; for students who are planning a career in the art field and need to work on a portfolio.



## **PHYSICAL EDUCATION & HEALTH**

### **Physical Education/Health 9**

**Grade 9      2.5 credits**

**Group 5      Course Number: 3235**

This is a required, semester-long course for Freshmen.

### **Health 10/Driver's Education**

**Grade 10      2.5 credits**

**Group 4      Course Number: 3234**

This is a required, semester-long course for Sophomores.

### **CPR**

**Grade 11      1.5 credits**

**Group 4      Course Number: 3313**

This is a required, quarter-long course for Juniors.

## **MISCELLANEOUS**

### **Post-Secondary Planning**

**Grade 11      1.25 credits**

**Group 5      Course Number: 3320**

This is a quarter-long course designed to give students fundamental skills in planning for life after high school. Students use the Internet-based Naviance system to aid in researching post-secondary options.