

*The*  
**Catholic**



**Course Selection Book**  
**2025-2026**



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## Course Selection Process

For guidance on course selections in relation to academic goals and strengths, students and parents should contact the Dean of Academics. Questions regarding college and career goals may be directed to the College Counselor.

The course selection process:

- Students select the courses they want to take based on their teachers' recommendations, their college and career aspirations, and their personal interests. We encourage all students to consult with their parents as they complete this process.
- As necessary, the Dean of Academics meets with students who have questions or concerns regarding course selections or in cases where there is a discrepancy between a student's selections and her teachers' recommendations.
- Students receive a list of the course selections that have been officially entered into the school's database. Students then have the opportunity to discuss and make any corrections or changes with the Dean of Academics.

**Please note:** Course offerings are subject to change upon notice and are dependent upon sufficient course enrollment. Course offerings are not guaranteed by their publication in this document.

## **Course Levels**

**AP – Advanced Placement**

**H – Honors**

**CP – College Preparatory**

**AA – Archangel**

### **Academic Standards and Placement**

Academic subjects may be offered at the Archangel, College Preparatory, Honors, or AP level. Course placement for entering students is based on transcript of grades earned and performance on standardized testing.

Course placement for current students is based on academic performance at TCHS. Students should meet the following criteria to maintain or advance course placements into the next year, as it appears on the following chart.

<b>Level to Level</b>	<b>Criteria/Grade in Current Year's Course</b>
Honors to Honors or AP to AP*	B+ and permission/recommendation of current teacher and Department Chair
Honors to AP	A and permission/recommendation of current teacher and Department Chair
CP to Honors	A and permission/recommendation of current teacher and Department Chair
CP to AP	A+ and permission/recommendation of current teacher and Department Chair

Aside from the criteria for determination of course placement, individual courses may have their own specific prerequisites. Where applicable, prerequisites are listed on the following pages under the relevant course description.

## **Graduation Requirements**

### **Classes of 2024 through 2028**

Theology	4 credits
English	4 credits
Social Studies	3 credits
Mathematics	4 credits
Science	3 credits
World Language	2 credits
Health/Physical Education	1 credit
Visual and Performing Arts	1 credit
Electives	6 credits
	30 hours per year
Community Service	(total of 120 hours)

The administration of Catholic High retains the right to make minor adjustments in credit requirements for graduation in situations where a student's accomplishment in a particular area may warrant it. In all cases, the requirements of the Maryland State Department of Education for Non-Public Schools will be met. The decision of The Catholic High School of Baltimore in these matters is final.

# **COURSE DESCRIPTIONS**

## **THEOLOGY**

### **012 CP Theology Scripture and Revelation**

Theology 9

Grade 9

Credit 1

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In the first semester of grade 9, students explore the Bible, our Sacred Scripture. Students prayerfully reflect on the Word of God in the Old and New Testament. Students grow in their knowledge of the God of Salvation History: Father, Son, and Holy Spirit. In the second semester, students consider the mystery of Jesus Christ as the ultimate revelation of the Holy Trinity. Throughout the year, students are instructed in the history of Sts. Francis and Clare, and significant Franciscan icons and prayers.

### **022 CP Theology the Paschal Mystery of Christ and His Church**

Theology 10

Grade 10

Credit 1

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In the first semester of grade 10, students take an in-depth course on the Paschal Mystery of Christ: His Passion, Death, Resurrection, and Ascension. Students explore some of the great mysteries of life and the profound love that our God has for us. In the second semester, students examine the nature and mission of the Church founded by Christ and guided by the Holy Spirit. Students explore the mystery and history of the “One, Holy, Catholic, and Apostolic Church.” Throughout the year, students are instructed in our Franciscan charism, including RISES and stories and legends from Francis.

### **032 CP Theology Sacraments and Morality**

Theology 11

Grade 11

Credit 1

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In the first semester of grade 11, students closely examine the Seven Sacraments of the Catholic Church. By prayerfully reflecting on the history and elements of each Sacrament, students have the opportunity for a deeper encounter with Jesus, our ultimate Sacrament. This includes instruction in the religious life, the history of the Franciscan Order, and introductory Franciscan Theology. In the second semester, students are challenged to live out more completely the Gospel message. By exploring the moral laws, concepts, and precepts of the Catholic Christian faith, students have a greater understanding of God’s universal truth.

## **042 CP History of the Church and World Religions**

Theology 12

Grade 12

Credit 1

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In the first semester, students explore the 2,000-year history of the Church, examining its development and influence across different eras. They will identify key civilizational trends in the Ancient, Medieval, and Modern Periods and how these trends shaped the Church's mission and identity. The course will focus on significant movements, including the rise of Monasticism and Mendicant Monasticism, with particular emphasis on the contributions of the Franciscan Order. In the second semester, students delve in to the diverse Religions of the World through the lens of Natural and Divine Revelation. This part of the course fosters an understanding of spiritual truths present in non-Christian religions, encouraging students to embrace the ecumenical spirit of the Church since Vatican II. Students will study the Three Abrahamic Faiths, along with religions from India, China, and Japan, gaining insights into their beliefs and practices.

## **ENGLISH**

### **103 AA, 104 AA Academic Cognitive Enrichment**

ACE1 and ACE2

Grades 9, 10

Credit 1

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As part of the Archangel Program, these courses enrich the students' academic cognitive abilities by focusing on improving academic skills, remediation, class work, study skills, time management, organizational skills, and test-taking strategies. Students participate in lessons that help them improve in their most needed areas.

### **111 H, 112 CP, 113 AA English Composition and Literature**

Lit/Comp H, Lit/Comp, Lit/Comp 9

Grade 9

Credit 1

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English Composition and Literature emphasizes enhancing reading comprehension for analysis and honing writing skills. Students engage with novels, short stories, poetry, and drama to develop the ability to read, interpret, and analyze both fiction and nonfiction. Through the exploration of various essay types, students gain proficiency in applying MLA format, mastering sentence structure, developing paragraphs, refining grammar, and expanding their vocabulary.

**121 H, 122 CP, 123 AA American Literature and Composition**

HAmerLit1, AmL/Comp2

Grade 10

Credit 1

This course offers an in-depth exploration of American Literature, traversing a vast array of periods and genres that have contributed to the rich tapestry of the nation's literary heritage. From the early colonial period to contemporary works, students will engage with the writings of influential American authors, exploring their unique voices and contributes to the ever-evolving narrative of the American story.

**REQUIREMENTS:** See page 5.**131 H, 132 CP British Literature and Composition**

BritLitH, BritLit1

Grade 11

Credit 1

This course offers an in-depth exploration of British Literature, encompassing a diverse array of literary works from different periods and genres. From the medieval era to the early twentieth century, students engage in a profound exploration of British literary traditions. This includes an analysis of influential writers, themes, and movements, with a particular emphasis on examining the cultural, social, and historical contexts that have both shaped and been shaped by these literary works.

**REQUIREMENTS:** See page 5.**141 H, 142 CP World Literature and Composition**

WldLit1H, WldLit1

Grade 12

Credit 1

World Literature students explore world cultures through literature from ancient to modern times. Students analyze literature by comparing and contrasting themes and evaluating the philosophical, political, ethical, and social influences that shape the literature in a particular place and time. Students develop writing and critical thinking skills through reflective and analytical essays. Knowledge of themes or issues from the literature is demonstrated through writing, presenting, and defending a research paper.

**REQUIREMENTS:** See page 5.

## **148 AP English Language and Composition**

APEngLang

Grade 11

Credit 1

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AP English Language and Composition is an academically rigorous course that provides students the rhetorical foundations that prepare them for the demands of academic and professional writing. The course also examines the formal study of argumentation. Students read sophisticated, thought-provoking nonfiction and fiction texts. They practice writing in several rhetorical modes. Throughout the course, students continue building and honing their vocabulary and grammar, usage, and mechanics skills.

**REQUIREMENTS:** See page 5.

## **149 AP English Literature and Composition**

APEngLit

Grade 12

Credit 1

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AP English Literature and Composition students engage in the careful reading and analysis of novels, plays, poems, and short stories from various authors and times. Emphasis is placed on reading comprehension, critical analysis of works, literary vocabulary, and recognizing and understanding literary devices. Students develop writing skills through analytical and argumentative essays as well as critical response and reflection.

**REQUIREMENTS:** See page 5.

## **171 CP Art of Film**

LittoFilm

Grades 11 and 12

Credit .5

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This introductory course offered during the first semester, acquaints students with the art of film and enables them to gain a greater understanding and appreciation of this important medium. The course covers the principles of film form and the major genres of film. The course incorporates readings from film textbooks, extensive screenings of selected films, and assessments on these films. Students taking this course should also understand that it is heavily discussion-based, requiring active student participation.

## 172 CP History of Film

HistofFilm

Grades 11 and 12

Credit .5

This introductory course, offered during the second semester, introduces students to the important eras and developments from the early days of cinema to today. The course incorporates readings from film textbooks on these films. Students taking this course should also understand that it is heavily discussion-based, requiring active student participation.

## 510 Introduction to TV Production & Broadcast Journalism

TVProd/BJr

Grades 10, 11, and 12

Credit 1

Lights! Camera! Action! Introduction to TV Production and Journalism offers students a foundational understanding of the principles and techniques involved in producing news content. This dynamic course covers on-air and field reporting, TV news writing, camera operation, teleprompter use, and editing/production. Through hands-on experience with TCHS-TV, students will master the essential elements of journalistic ethics and storytelling while gaining exposure to both print and broadcast journalism. Each day, students will actively contribute by writing and creating content for TCHS-TV and the morning announcements.

**PREREQUISITES:** B+ or higher in English, English teacher recommendation, and permission from the Production/Journalism teacher.

## 153 CP Yearbook

Yearbook

Grades 10, 11 and 12

Credit 1

This course promotes skills in basic caption writing, design, photography, and editing. Students compose and manipulate photos using Adobe Lightroom and explore layout and design elements of print. Students plan, create, interpret, and analyze visual representations and carefully examine their product for publication. Twenty-first century skills in collaboration, creative thinking, technical literacy, communication, and critical thinking are also practiced. The course concludes with the completion of *The Troubadour*, the annual yearbook. All students adhere to yearbook procedures, including deadlines. Some members serve as editors, taking on a leadership role in the class. Students must be able to work after school and/or at home to meet deadlines.

**PREREQUISITES:** B+ or higher in English, English teacher recommendation, and permission from the Yearbook teacher.

## **SOCIAL STUDIES**

### **211 H, 212 CP, 213 AA World Civilizations**

WldCivH, WldCivil, WorldCiv1

Grade 9

Credit 1

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This course studies the major cultural, economic, political, and social events from ancient times through the Renaissance, as well as the geographical settings in which they occurred. Students investigate the rise and fall of empires and the development of nation states. A correlation is made between past events and the modern world. Emphasis is placed on critical thinking, deductive reasoning, independent research, writing skills, and use of primary sources.

### **221 H, 222 CP, 223 AA United States History**

USHistH, USHistory

Grade 10

Credit 1

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This course is an integrated survey of the development of our nation. It examines the historical, political, social, religious, constitutional, and geographic aspects of the United States. Students develop research skills, use critical thinking, and deductive reasoning. Writing and other independent work is expected of each student.

**REQUIREMENTS:** See page 5.

### **231 H, 232 CP United States Government**

HGovernment, Government

Grade 11

Credit 1

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This course looks at the English origins of our federal, state, and local governments. It examines the what, how, and why of the changes that have occurred in the formation of our present American system of government. Students evaluate how our government works through participation in real world applications and simulations that help to analyze different aspects of democracy. Being a good citizen and an effective member of a participating democracy are stressed throughout the course. Students learn independent research, critical thinking, in-depth writing, and constitutional development.

**REQUIREMENTS:** See page 5.

## **245 AP United States History**

APUSHist

Grade 10

Credit 1

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This course is an integrated survey of the development of our nation. Students examine the historical, political, social, religious, constitutional, and geographic aspects of the United States. Students develop independent research skills, and use critical thinking and deductive reasoning skills with primary and secondary sources. This course involves extensive writing and other independent work.

*Students may opt to take the AP test or apply for dual enrollment credit with Notre Dame of Maryland University (NDMU)--additional fees apply.*

**REQUIREMENTS:** See page 5.

## **230 AP United States Government and Politics**

GovtAP

Grades 11 and 12

Credit 1

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This course includes the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. Students become familiar with the various institutions, groups, beliefs, and ideas that constitute U.S. government and politics, and become acquainted with a variety of theoretical perspectives and explanations for various behaviors and outcomes. Upon completion of this course, students are prepared to take the Advanced Placement Exam in Government and Politics.

**REQUIREMENTS:** See page 5.

## **275 H Human Behavior & Genocide: Examining the Holocaust**

Holocaust

Grades 11 and 12

Credit .5

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This course begins with a focus on identity and group behavior and leads into the history of Germany during the interwar period. The history of Anti-Semitism is also explored to understand the actions of German leadership. The Holocaust is the primary example of genocide used in this class, but similar acts of discrimination and the genocide of other ethnic groups is also discussed. Students analyze primary and secondary sources, including listening to survivor testimonies, and rely on critical thinking, deductive reasoning, and writing skills.

## **273 H The World Since 1939**

World1939

Grades 11 and 12

Credit .5

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This course surveys major world events and movements from World War II. Topics include the Cold War and the many subsequent regional wars, nuclear proliferation, independence movements in South America and Asia, the end of apartheid in South Africa, the establishment of the European Union, major political and trade alliances, the rise of terrorist movements, the space race, and environmental movements worldwide. Students are expected to analyze primary and secondary sources and use their skills in critical thinking, deductive reasoning, and writing.

## **Law and Leadership Program In the Franciscan Tradition**

This program empowers young women to be active, engaged citizens by providing them with the knowledge and skills they need to successfully effect change in local and global communities. This program is intended for young women who have excellent writing, presentation, and communication skills while providing leadership opportunities, extracurricular involvement, and real-world experiences in Law and Leadership. Our curriculum is designed to develop the essential skills of responsible leadership, and an appreciation for the principles and values upon which the legal system rests in order to successfully change society in a morally, ethically, and responsible way.

<b>9<sup>th</sup> Grade</b>	CP Responsible Leadership in the Franciscan Tradition (.5 credit)	CP Introduction to Law (.5 credit)	H or CP French (1 credit)	H or CP World Civilization (1 credit)
<b>10<sup>th</sup> Grade</b>	CP Criminal Justice (.5 credit)		H or CP French (1 credit)	AP, H or CP US History (1 credit)
<b>11<sup>th</sup> Grade</b>	H Civil Rights Laws and Policies (.5 credit)	H Civil Discourse (.5 credit)	H or CP French (1 credit)	AP or H US Government (1 credit)
<b>12<sup>th</sup> Grade</b>		H International Relations (.5 credit)	H Law and Leadership Senior Research Thesis (.5 credit)	CP Forensic Science Jr. or Sr. (1 credit)

Students must participate in at least two of the following extra-curricular activities in order to fulfill the requirements of this program:

- Duns Scotus Forensics Society
- Student Council
- Youth and Government Program
- Model UN Club
- Law & Leadership Steering Committee
- Mock Trial

### **101 CP Responsible Leadership in the Franciscan Tradition**

Franciscan

Grades 9 and 10

Credit .5

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This course explores how to be a leader in today's challenging environment. Students learn transferable skills that help them contribute to our ever-changing world as ethical leaders. Supported by Franciscan values, this program is holistic and built on the philosophy of servant leadership.

### **282 CP Introduction to Law**

IntroLaw

Grades 9,10,11 and 12

Credit .5

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This course introduces students to the roles of laws and courts in American society. Students investigate the development of law, types of law, the legal field and its intersection with contemporary issues. In addition, students have an opportunity to explore legal careers and to engage in active learning experiences such as discussion, debate, mock trials, moot courts, role-play, and case studies. Guest speakers and field trips to local courts are additional essential experiences for students in the course.

### **265 CP Criminal Justice**

CrimJust

Grades 10, 11 and 12

Credit .5

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This course provides an introduction to the Criminal Justice System. Topics such as law enforcement practices and procedures, evidence collection and identification, and corrections are studied together with constitutional law, criminal law, and juvenile law. At the end of the semester, students are expected to understand the nature and causes of crimes, identify and analyze social problems related to crime, and practice strategies for determining judgements in cases. Skills include written and oral presentations, research strategies, critical thinking and computer literacy.

## **278 H American Civil Rights Law and Policies**

CivRights

Grades 11 and 12

Credit .5

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This course addresses the struggle for civil rights in America from colonial times to the present, at the state and federal level. Topics covered include slavery, Reconstruction, Jim Crow laws, the Great Migration, redlining, segregation, the Civil Rights movement, affirmative action, and anti-discrimination laws. U.S. legal principles and their application to policy are studied in this course. Incorporating primary and secondary sources in research and writing, students consider the real-world consequence of civil rights legislation.

## **205 H Civil Discourse**

CivDebate

Grades 11 and 12

Credit .5

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In this course, students explore various contemporary issues, engage in structured debates, and learn the art of civil discourse. Emphasizing the development of persuasive argumentation, research skills, and active listening, the course aims to foster a deeper understanding of differing perspectives. Through practical exercises and discussions, students enhance their ability to articulate ideas, analyze evidence, and construct well-reasoned arguments while promoting respectful and constructive dialogue. This course provides a platform for students to refine their communication abilities and participate meaningfully in discussions on complex societal issues.

## **283 H International Relations**

HGlobal

Grade 12

Credit .5

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Enabling students to explore significant global issues and challenges, this course provides an immersive experience into diverse regions worldwide. By delving into compelling case studies and fostering thought-provoking discussions, participants develop the essential skills to navigate the intricacies of international relations and make meaningful contributions to an interconnected global community. Rooted in the Franciscan tradition, the course places a strong emphasis on values such as respect, empathy, concern for others, human rights, and dignity. Rigorous research and debate skills are integral components of the curriculum.

## **285 H Law & Leadership Senior Research Thesis**

CapstonePr

Grade 12 Law & Leadership Only

Credit .5

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In the final course of the Law and Leadership Program, students receive thorough guidance on navigating the research process. Special attention is given to developing a strong thesis, understanding research methodologies, and creating an annotated bibliography. The course involves revisiting and enhancing concepts covered in earlier classes, seamlessly integrating them into the culminating research paper and its subsequent presentation.

**PREREQUISITES:** Successful completion of all required Law and Leadership courses through junior year.

## **SCIENCE**

### **320 H Honors Biology**

HBiology

Grade 9 or higher

Credit 1

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Honors Biology introduces the student to the central concepts of biology, including topics such as the chemical basis of life, the structure of the cell, ecological relationships, principles of genetics, and the evolutionary processes that link the earth's diverse organisms. Laboratory activities are a key part of the course and reinforce the conceptual framework developed in the classroom.

**PREREQUISITE:** HSPT and elementary / middle school transcripts determine placement. Students must be concurrently taking Algebra 2 or Honors Geometry. (This prerequisite will allow students to take Honors chemistry sophomore year.)

### **322 CP, 323 AA Biology**

Biology

Grade 9

Credit 1

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This course examines the concepts of biology as well as the process of how biologists study life. We focus our study on the big ideas of biology: the chemistry of living things, the cellular basis of life, information and heredity, growth, development, and reproduction homeostasis, and the evolution and the unity of life. Students use laboratory activities to reinforce material and to learn how to use observations, questions, and experiments to find answers to problems.

### **331 H, 332 CP, 337 AA Chemistry**

HChem, Chemistry

Grade 10

Credit 1

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This course introduces students to the basic concepts of chemistry, provides laboratory experience, and teaches critical-thinking and problem-solving skills that demonstrate the relevance of chemistry to everyday life.

**PREREQUISITE:** For **Honors Chemistry:** Honors Biology and Honors Algebra 2 or higher math level. **For CP Chemistry:** Algebra 1. **For AA Chemistry:** AA Biology and Algebra 1A.

### **334 AP Chemistry**

APChem

Grades 11 and 12

Credit 1

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This AP course enables students to develop advanced inquiry and reasoning skills, such as designing a plan for collecting data, applying mathematical routines, and connecting concepts in and across domains. This course is equivalent to a two-semester introductory chemistry class.

**PREREQUISITES:** Concurrent enrollment in Pre-Calculus or Calculus and completion of Honors Chemistry.

### **341 H Honors Physics**

HPhysics

Grades 11 and 12

Credit 1

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Honors Physics is an introduction to a basic understanding of kinematics, dynamics, work, energy, waves, light, sound, electricity, magnetism, and quantum theory through reading, discussion, and laboratory experiments.

**PREREQUISITES:** Concurrent placement in Pre-Calculus or higher, Grade of B or above in Chemistry.

### **340 AP Physics 1**

APPhysics

Grades 11, 12

Credit 1

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AP Physics 1 (Mechanics) is an introductory college-level physics course. It is an Algebra-based course designed for the study of the foundations of Newtonian mechanics. This includes sections on force, kinematics, momentum, energy, rotational motion, universal gravitation, and simple harmonic motion. Practicing reasoning skills along with laboratory and test taking skills prepare students to take the AP exam in May.

**PREREQUISITES:** Concurrent enrollment in Pre-Calculus or higher math and the completion of Honors Chemistry.

### **351 H, 352 CP Human Anatomy & Physiology**

HAnat/Phys, Anat/Phys

Grades 11 and 12

Credit 1

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Anatomy and Physiology introduces the major systems of the human body. The course starts with cells and tissues and then introduces the organs and organ systems. By the end of the course, students will be familiar with common anatomical terms and functions of each organ system. An emphasis will be placed on how structure relates to function and how the systems work to maintain homeostasis. We will also discuss how problems relate to various diseases.

**PREREQUISITES:** Required for Biomed and Sports Medicine at Grade 11. Honors Anatomy and Physiology - Honors Biology and Honors Chemistry. CP Anatomy and Physiology - CP Biology and Chemistry (Grades of 85 or better).

### **357 AP Biology**

APBiology

Grades 11 and 12

Credit 1

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AP Biology is an introductory college-level biology course. Students explore biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes, energy and communications, genetics, information transfer, and ecology. AP test fee may apply.

**PREREQUISITES:** Honors Biology, Honors Chemistry 85 or better.

### **541 H Introduction to Computer Science**

IntCompSci

Grades 11 and 12 – required for  
Engineering Concentration

Credit 1

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Introduction to Computer Science utilizes a JavaScript curriculum to teach the foundations of computer science and basic programming, with an emphasis on helping students develop logical thinking and problem-solving skills. Upon completion of the Introduction to Computer Science course, they have learned material equivalent to a semester college introductory course in computer science and are able to program using JavaScript. The basic syntax and application of additional programming languages are discussed as they apply to fields in computer science. This course also investigates internal and external hardware components of computer devices.

**PREREQUISITE:** Successful completion Algebra 2 and the approval of the instructor.

## **519 Exploring Technology**

ExplorTech

Grades 9 through 12

Credit .5

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This course explores the history, evolution, and applications of computer science and software engineering. Students will develop computer skills, gain career-ready practices, and explore technology-related fields. Key topics include the history of technology, typing proficiency, digital citizenship, G-Suite tools, coding, and hardware engineering. Learning will involve collaborative projects, daily assignments, and active participation in discussions and activities.

## **560 AP Computer Science**

APCompSci

Grades 11 and 12

Credit 1

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AP Computer Science is an introductory college-level computer science course. Students cultivate their understanding of coding through analyzing, writing, and testing code as they explore concepts like modularity, variables, and control structures.

**PREREQUISITE:** Introduction to Computer Science.

## **358 CP Forensic Science**

ForenSci

Grades 11 and 12

Credit 1

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Students study the field of forensic science and learn to use skills in data collection and analysis, scientific problem solving, and evidence examination to investigate crime scenes. They learn about the law and forensic science, forensic science careers, crime scene investigation, fingerprint analysis, hair and fiber analysis, trace evidence, blood types, blood spatter analysis, DNA evidence, poisons, document analysis, and forensic anthropology.

**PREREQUISITES:** Honor or CP Chemistry with a grade of C or higher.

## **301 CP Marine Biology**

MarineBio

Grades 11 and 12

Credit 1

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Marine biology is the study of marine organisms and their behavior and interactions with the environment in which they live. The course includes biological oceanography and the related fields of chemical, physical and geological oceanography needed to understand marine organisms and their habitat.

**PREREQUISITES:** Students must have a C or better in Biology and Chemistry.

### **364 Astronomy**

Astronomy

Grades 11 and 12

Credit 1

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This is a yearlong course in descriptive and conceptual Astronomy. Semester 1 explains the motions of the night sky, the basic tools and methods of astronomy, characteristics of the solar system, and major figures in historical astronomy. Semester 2 starts with the Sun, using it as a template to understand the stars, stellar evolution, the Milky Way galaxy, other galaxies, and the universe.

**PREREQUISITES:** Biology and Chemistry.

### **367 CP Environmental Science**

EnvSci

Grades 11 and 12

Credit 1

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This course is a study of the interactions of living organisms with one another and their physical environment. Students apply scientific knowledge to devise various solutions to environmental questions and issues. Topics include the human influence on weather, water quality, air quality, animal populations, erosion, and energy resources.

**PREREQUISITES:** Biology and Chemistry.

### **368 AP Environmental Science**

APEnvSci

Grades 11 and 12

Credit 1

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AP Environmental Science is a full-year course designed to be the equivalent of a one-semester, introductory college course in environmental science and prepares students to take the Advanced Placement Exam. Students use scientific principles, concepts, and methodologies to understand the interrelationships of the natural world and identify environmental problems and concerns. Students then analyze and discuss solutions to these problems using a multidisciplinary approach. A wide variety of classroom activities are used to introduce and reinforce material. Students engage in the scientific process and inquiry-based learning through lab experiments and activities. Topics include Earth systems and resources, the living world, population, land and water use, energy resources and consumption, pollution, and global change. AP test fee may apply.

**PREREQUISITES:** Successful completion of Honors Biology and Honors Chemistry or permission from the Department Chair.

# STEM Program

Acceptance into the STEM Program is based on the following criteria:

- Strong performance in mathematics and science on standardized assessments and the High School Placement Test
- A cumulative GPA of 3.0 or higher

The STEM Program offers a rigorous course of study designed to inspire students to pursue careers in high-demand, problem-solving fields. Students in the program may choose to focus their studies through a concentration in Engineering, Biomedical Science, or Sports Medicine.

## **STEM Engineering Grade Requirements:**

Students must maintain a grade of 85 or higher in all math and science courses to remain in good standing within the program. Grades are reviewed at the end of each semester. If a student earns below an 85 in a math or science class, she will be placed on a one-year Student Improvement Plan to address academic challenges and support improvement. If the grade remains below 85 at the end of the year, a revised plan may be implemented. Students with final grades below 80 may be removed from the program. During senior year, students must maintain an 80 or higher in their math and science courses to earn their program honor cord.

## **STEM Biomedical Science/Sports Medicine Grade Requirements:**

Students must maintain a grade of 80 or higher in all math and science courses to remain in good standing within the program. Grades are reviewed at the end of each semester. If a student earns below an 80 in a math or science class, she will be placed on a one-year Student Improvement Plan to address academic challenges and support improvement. If the grade remains below 80 at the end of the year, a revised plan may be implemented. Students with final grades below 77 may be removed from the program. During senior year, students must maintain a 77 or higher in their math and science courses to earn their program honor cord.

## 555 CP, 554 H Foundations of STEM

Grade 9

FoundSTCP, FoundST H

Required for Engineering, Biomed  
& Sports Medicine Programs

Credit 1

This year-long course integrates the content and skills of science, technology, engineering, and math. Using the design process and scientific methods, students will explore real-world problems through the lenses of engineering and biomedical science to investigate the connections between both using an interdisciplinary and project-based approach. This course uses experimentation, collaboration, knowledge application, problem solving, and creative skills that students can use in every facet of their lives. Student challenges will be hands-on, and solutions will be student-generated. Students will engage in simulations, model/ prototype building, technical drawings, etc. This course is required for freshman students in the Biomedical and/or Engineering concentrations of the TCHS STEM Program. Students must have permission from the Science Department Chair to opt out in the event of a scheduling conflict that precludes enrollment.

**PREREQUISITES:** Grade 9: Acceptance into STEM program

Grade 10: Honors: B in Honors Algebra 2 and Honors Biology; CP: B in Algebra 1 and Biology

### STEM—Biomedical and Sports Medicine Concentrations

#### Biomedical Concentration - Honors

Year	Biomed Class	Other Required Class	Math Requirements
Freshman	Honors Foundations of STEM	Honors Biology	Honors Algebra 2*
Sophomore	Health Science and Clinical Skills	Honors Chemistry	Honors Geometry or higher level
Junior	Honors Anatomy and Physiology	<u>Required:</u> Choice of AP Science class or Honors Physics	Pre-Calculus or higher
Senior	Mental Health/Neuroscience and Histology/Pathology**	Public Health and Epidemiology	Pre-Calculus or Calculus

\*If a student is in Honors Algebra 1 she may enter the Honors Biomed track, but she must take Algebra 2 **and** Geometry during her sophomore year.

\*\*Senior Honors Biomed student's can take Bioengineering in the place of Mental Health/Neuroscience Fall semester.

### Biomedical Concentration - CP

Year	Biomed Class	Other Required Class	Math Requirements
Freshman	CP Foundations of STEM	CP Biology	Algebra 1 or higher
Sophomore	CP Health Science and Clinical Skills	CP Chemistry	Geometry or higher
Junior	CP Anatomy and Physiology	1 additional Science elective	Algebra 2 or higher
Senior	Mental Health/Neuroscience and Histology/Pathology	Public Health and Epidemiology	Pre-Calculus

### Sports Medicine Concentration

Year	Sports Medicine	Other Required Class	Math Requirements
Freshman	Foundations of STEM	Biology	Algebra 1
Sophomore	Health Science and Clinical Skills	Chemistry	Geometry
Junior	Anatomy and Physiology	1 additional Science	Algebra 2
Senior	Honors Kinesiology	Honors Sports Medicine Basics	Pre-Calculus

### **373 CP and 303 H Health Science & Clinical Skills**

Hea&ClinSk

Grade 10

Credit 1

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This year-long course is designed to provide an overview of all phases of health care including diagnostic, therapeutic, and support services. In addition, students study medical terminology and documentation. Students will learn many aspects of patient care that are offered by health professionals. They will also explore different careers in healthcare. This course is taught through lectures, discussions, labs, and case studies. Extensive hands-on scenarios utilizing the Hinson Clinical Lab are emphasized.

**PREREQUISITES:** Must be enrolled in the Biomedical or Sports Medicine concentrations..

### **384 CP, 385 H Public Health & Epidemiology**

EpiPH

Grade 12

Credit 1

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This course introduces the basic principles and methods of epidemiology within the framework of biology, with an emphasis on critical thinking, analytical skills, and application to real-world issues. In addition, the themes of global health and social justice are infused throughout this course and address poverty, conflicts and emergencies, health inequity, health systems reforms, and major global initiatives for disease prevention and health promotion.

**PREREQUISITES:** Must be enrolled in the Biomedical Concentration and have completed the Biomedical required classes up to the senior year.

### **360 CP, 359 H Mental Health and Neuroscience**

MHNeuro

Grade 12

Credit .5  
Fall Semester

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The Mental Health and Neuroscience course examines the brain and its function in relation to mental illness. We cover common mental illnesses, the cause, prevention, and health of the individual. The class learns about the stigma of mental illness and understanding the complexity of the illness.

**PREREQUISITES:** Must be enrolled in the Biomedical Concentration and have completed the Biomedical required classes up to the senior year. This course is followed by Histology and Pathology (Spring semester).

## 306 CP, 305 H Histology and Pathology

Credit .5

HistPath

Grade 12

Spring Semester

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This semester course involves the study of cells and tissues under a microscope and explores common pathologies associated with the four basic types of human body tissues: connective, epithelial, muscle, and nervous. It builds upon the basic skills that the students learned in Anatomy and Physiology. The students master how to operate the microscope and identify various tissues, as well as describe the structural changes that occur in them due to cell injury. This course is taught through lectures, discussions, labs, case studies, research, presentations, and projects.

**PREREQUISITES:** Must be enrolled in the Biomedical Concentration and have completed Anatomy and Physiology and either Mental Health and Neuroscience or Bioengineering (fall semester).

## 307 H Sports Medicine Basics

HeaScSpMed

Grade 12

Credit 1

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This course provides students with a foundational understanding of sports medicine, focusing on injury prevention, recognition, treatment, and rehabilitation. Students will explore topics such as biomechanics, common sports injuries, concussion protocols, nutrition, pharmacology in pain management, the role of psychology in sports injury and recovery, emergency care, and therapeutic interventions. Through hands-on activities, case studies, and real-world applications, students will gain insight into the roles of athletic trainers, physical therapists, and other healthcare professionals in the field.

**PREREQUISITES:** Sports Medicine Concentration and have completed the required Biomed courses up to the Senior year.

## 314 H Kinesiology

Kinelgy

Grade 12

Credit 1

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This course explores the principles of human movement and the mechanics of the body in motion. Students will study anatomy, physiology, biomechanics, and motor learning to understand how the musculoskeletal and nervous systems work together to support physical activity and performance across multiple areas of life. Through hands-on activities, case studies, and projects, students will gain practical knowledge applicable to sports, fitness, and related healthcare fields.

**PREREQUISITES:** Sports Medicine Concentration and have completed the required Biomed courses up to the Senior year.

## STEM Engineering Concentration

### Honors STEM Engineering

Students take a total of at least 8 Science classes.

Year	Required Engineering Class	Required Science Class	Required Math Class
<b>Freshman</b>	Honors Foundations of STEM	Honors Biology	Honors Algebra 2* or higher level of Math
<b>Sophomore</b>	Engineering Design and Analysis	Honors Chemistry	Honors Geometry or higher level of Math
<b>Junior</b>	Introduction to Computer Science	Honors Physics <i>and</i> an AP Science class or Honors Anatomy and Physiology	Honors Pre-Calculus or higher level of Math
<b>Senior</b>	Bioengineering ( <i>Fall</i> ) Senior Engineering ( <i>Spring</i> )	AP Science Class	Honors Calculus or AP Calculus

\*An A in CP Algebra 2 and/or CP Geometry may be accepted in place of a B in the equivalent honors course at the department chairperson's discretion. With the approval of the Department Chair, a student may be accepted into the program without having completed Algebra 1 prior to 9<sup>th</sup> grade: however, special arrangements must be made so that she is able to complete Algebra 2 and Geometry by the end of the 10<sup>th</sup> grade.

### 528 Engineering Design and Analysis

EngDesign                      Grade 10 – Required for Engineering Concentration                      Credit 1

In this hands-on, design-based, inquiry-focused engineering course, students utilize the engineering design process, make data-driven decisions, and work in multi-level teams to solve complex challenges.

**PREREQUISITES:** Successful completion of Foundations of STEM and Honors Biology with an 85. If a student in CP Biology maintains an A, she may be accepted at the program director's discretion. Successful completion or concurrent enrollment in CP or Honors Algebra 2.

BioEngH	Grade 12	Credit .5 Fall Semester
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**PREREQUISITES:** This semester course is open to Engineering and Honors Biomedical Program seniors.

## 550 H STEM Senior Engineering

This is a Spring semester project-based experiential learning course that allows students to investigate a topic of their choice in the fields of Science, Technology, Engineering, and Mathematics. They will proceed by using their STEM knowledge and practical experiences gained from prior courses to demonstrate their competence with the Engineering Design Process and Scientific Method to implement their methods for their research. Students propose their own methods that will allow them to gather the necessary data to perform an in-depth analysis. The course culminates with the submission of a term paper and presentation before peers, faculty, and other guests.

**PREREQUISITES:** Successful completion or enrollment in all courses required to complete the Engineering Concentration and the approval of the instructor.

## **MATHEMATICS**

### **403 CP Algebra 1A**

Algebra 1A

Grade 9

Credit 1

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This course is the first half of a two-year sequence for Algebra 1. Topics include patterns in algebra, sets and properties of real numbers, algebraic operations, equations, proportional reasoning, slope and the equation of a line, statistics, and data analysis.

### **413 CP Algebra 1B**

Algebra 1B

Grade 10

Credit 1

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This course is the second half of a two-year sequence for Algebra 1. Topics include linear functions, inequalities, absolute values, exponents, polynomials, factoring and quadratic functions, including the Quadratic Formula, and operations with rational expressions.

**PREREQUISITE:** Successful completion of Algebra 1A (403).

### **411 H Algebra 1**

H Algebra 1

Grade 9

Credit 1

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This Honors level course offers students a solid foundation in Algebra 1. Topics include solving word problems, proportional reasoning, inequalities, absolute values, exponents, polynomials, and factoring. This course also presents topics in co-ordinate geometry, rational and irrational numbers.

**PREREQUISITE:** HSPT and middle school transcripts determine placement.

### **412 CP Algebra 1**

Algebra 1

Grade 9

Credit 1

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This course offers students a strong foundation in Algebra 1. Topics presented in the course include solving equations, proportional reasoning, data analysis, inequalities, absolute value, exponents, exponential functions, polynomials, and factoring. This course also includes an introduction to quadratic functions and the quadratic formula.

**PREREQUISITE:** HSPT and middle school transcripts determine placement.

## 420 H Geometry

H Geometry

Grade 10

Credit 1

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A strong background in Algebra 1 is required. Topics include an introduction to logic, the study of similar and congruent triangles, polygons, parallel lines, and trigonometry. The area, perimeter and volume of two-dimensional and three-dimensional objects are also taught.

**PREREQUISITE:** B in Honors Algebra 2.

## 422 CP Geometry

Geometry

Grade 10

Credit 1

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This course is a comprehensive geometry course that includes logic and proof, polygons, similar and congruent figures coordinate geometry, perimeter, area and volume, and circles.

**PREREQUISITE:** Successful completion of Algebra 1 (412).

## 430 H Pre-Calculus

H Pre-Calc

Grades 11 and 12

Credit 1

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This vigorous course prepares students to take the Advanced Placement Calculus (AB) course. Topics include the study of polynomial, exponential, logarithmic, and rational functions. Topics in trigonometry and analytic geometry are also included. *Students must have a TI-83+ or TI-84 series graphing calculator for use in this course.*

**PREREQUISITES:** B in Honors Geometry and approval of Mathematics Chair.

## 431 H Algebra 2

Hon Alg 2

Grade 9 and 11

Credit 1

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A strong background in Algebra 1 is required. Topics include systems of equations, quadratic functions, exponential and logarithmic functions. Polynomial, rational, and radical functions are also included.

**PREREQUISITES:** B in Honors Geometry and approval of Mathematics Chair.

## 432 CP Algebra 2

Algebra 2

Grades 11 and 12

Credit 1

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This course offers a comprehensive Algebra 2 course. Topics include solving systems of equations, all types of functions (quadratic, polynomial, rational, radical, exponential, and logarithmic), conic sections, sequences, and series.

**PREREQUISITES:** Successful completion of Algebra 1, Geometry, and approval of Mathematics Chair.

## 444 CP Advanced Functions and Statistics

AdFunctStat

Grade 12

Credit 1

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This course is designed for students who have a familiarity with basic algebraic functions. Topics include the study of quadratic, exponential, polynomial, logarithmic, and rational functions. This course also presents topics in descriptive statistics. Topics in probability are also included.

**PREREQUISITE:** Successful completion of Algebra 2 or approval of Mathematics Chair.

## 441 H Calculus

H Calculus

Grade 12

Credit 1

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This course is an honors level continuation of the Pre-Calculus course. Students undertake a detailed study of Differential and Integral Calculus. Students are not required to take the Advanced Placement exam at the end of the academic year. *Students must have a TI-83+ or TI-84 series graphing calculator for use in this course. Students may opt to apply for dual enrollment credit with Notre Dame of Maryland University (NDMU)--additional fees may apply.*

**PREREQUISITES:** Completion of Pre-Calculus (430), see page 5 for other prerequisites.

#### 440 AP Calculus AB

AP Calculus	Grade 12 (or approval of instructor)	Credit 1
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This course is a continuation of the Pre-Calculus course. Students undertake a detailed study of Differential and Integral Calculus. Students are expected to take the Advanced Placement Calculus AB exam at the end of the academic year. *Students must have a TI-83+ or TI-84 series graphing calculator for use in this course. Students may opt to take the AP test or apply for dual enrollment credit with Notre Dame of Maryland University (NDMU)--additional fees may apply.*

**PREREQUISITE:** Completion of Pre-Calculus (430), see page 5 for other prerequisites.

#### 445 AP Calculus BC

AP CalcBC	Grade 12 (or approval of instructor)	Credit 1
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This course is for students who already have a thorough knowledge of elementary functions. Students who study for the Advanced Placement BC course also review the AB course. Students are expected to take the Advanced Placement Calculus BC exam at the end of the academic year. *Students must have a TI-83+ or TI-84 series graphing calculator for use in this course.* AP test fee may apply.

**PREREQUISITES:** Completion of Calculus AB or Pre-Calculus, see page 5 for other prerequisites.

#### 454 H, 455 CP Consumer Economics

HConsEcon, ConEcon	Grades 11 and 12	Credit 1
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This math course provides students with practical knowledge, a firm understanding of the concepts of sound personal, financial management, and the ability to successfully navigate through an ever- changing economic environment. Topics include an introduction to macroeconomics theory, budgeting, personal financial management, and consumer credit and financing, risk management and insurance, savings and debt management strategies, investment options and alternatives, present and future values of a dollar, and tax planning.

## WORLD LANGUAGES

### **611 H, 612 CP French 1**

HFrench1, French1

Grades 9, 10, 11, 12

Credit 1

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This course is an introduction to the French language and the culture of the French-speaking world. This course helps students to develop an acceptable degree of proficiency in the four language skills: speaking, reading, listening, and writing. Cultural material is integrated into the learning process to develop an understanding and appreciation of the cultural heritage and lifestyles of the French-speaking world. A more rigorous testing and grading standard is placed on those students earning Honors credit for the course.

### **621 H, 622 CP French 2**

HFrench2, French2

Grades 9, 10, 11, 12

Credit 1

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This course strengthens and broadens the skills of listening, speaking, writing, and reading acquired during French 1. More complex grammatical structures and verb tenses are added to those taught during the first year of study. Students read longer texts and writing skills are further developed through guided composition. Auditory and speaking skills are developed more fully through classroom conversation and listening activities. This course continues to integrate cultural material into the learning process, expanding the students' appreciation of the cultural heritage and lifestyles of the French-speaking world. A more rigorous testing and grading standard is placed on those students earning Honors credit for this course.

**PREREQUISITE:** Honors – Honors French 1 or recommendation of the French teacher, CP – CP French 1.

### **631 H, 632 CP French 3**

HFrench 3, French3

Grades 11 and 12

Credit 1

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In this course, the student continues to expand and perfect all of the language skills learned during the first two levels and to broaden the study of the rich culture of the French-speaking world. Students compose original writing in French and begin to read French literature. Conversing in French is expected of students at this level.

**PREREQUISITE:** Honors – Honors French 2 or recommendation of the French teacher, CP – CP French 2.

**641 H, 642 CP French 4**

HFrench4

Grades 11 and 12

Credit 1

This course is designed for students who wish to explore the French language and culture in more depth. It provides a thorough review of French grammatical structures and verb tenses. French literature, art, music and history are explored with increased emphasis on oral and written communication. Students are expected to work on a large variety of activities that stress verbal fluency and oral comprehension, as well as perfecting writing skills in the French language.

**PREREQUISITE:** Successful completion of CP or Honors French 3.

**644 H French 5**

HFrench5

Grade 12

Credit 1

This course is designed for students who wish to explore the French language and culture at the AP level. It emphasizes the six themes of the AP curriculum. Students cultivate their understanding of French language and culture by applying interpersonal, interpretive, and presentational modes of communication in real-life situations as they explore concepts related to family and community, personal and public identity, beauty and aesthetics, science and technology, contemporary life, and global challenges. Students are expected to work on a variety of activities that stress verbal fluency and oral comprehension, as well as perfecting writing skills in the French language.

**PREREQUISITE:** Honors French 4.

**651 H, 652 CP Spanish 1**

HSpanish, Spanish1

Grades 9, 10, 11, 12

Credit 1

This course is an introduction to the Spanish language and to the culture of the Spanish-speaking world. The objective of this course is to help each student develop basic proficiency in the four language skills: speaking, reading, listening, and writing. Cultural material is integrated into the learning process to enable the students to develop an understanding and appreciation of the cultural heritage and lifestyles of the Spanish-speaking world. A more rigorous testing and grading standard is placed on those students earning Honors credit for the course.

## **661 H, 662 CP Spanish 2**

HSpanish2, Spanish2

Grades 9, 10, 11, 12

Credit 1

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This course strengthens and broadens the skills of listening, speaking, writing, and reading acquired during Spanish 1. More complex grammatical structures and verb tenses are added to those taught during the first year of study. Students begin reading longer texts in Spanish and writing skills are developed through guided composition. Auditory and speaking skills are developed more fully through conversation and listening activities. This course continues to integrate cultural material into the learning process, expanding students' appreciation of the cultural heritage and lifestyles of the Spanish-speaking world. A more rigorous testing and grading standard is placed on those students earning Honors credit for this course.

**PREREQUISITE:** Honors – Honors Spanish 1 or the recommendation of the Spanish teacher, CP – CP Spanish 1

## **671 H, 672 CP Spanish 3**

HSpanish3, Spanish3

Grades 10, 11 and 12

Credit 1

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Students continue to expand and perfect all the language skills learned during the first two levels and to broaden their study of the rich cultural diversity of the Spanish-speaking world. Students compose original writing and give presentations in Spanish. Significant oral participation in Spanish is expected of students at this level. Cultural readings in Spanish continue to be an integral part of this course.

**PREREQUISITE:** Honors – Honors Spanish 2 or the recommendation of the Spanish teacher, CP– CP Spanish 2.

## **681 H, 683 CP Spanish 4**

HSpanish4

Grades 11 and 12

Credit 1

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This course provides a thorough review of Spanish grammatical structures and verb tenses. The study of Spanish vocabulary is broadened with an emphasis placed on idiomatic expression. Students read selections about the history and culture of the Spanish-speaking world and Spanish literature, which provides context for compositions and conversation. In addition, conversations in Spanish on topics of interest to the students are integrated into the course.

**PREREQUISITE:** Successful completion of CP or Honors Spanish 3.

## **685 H Spanish 5**

HSpanish5

Grades 11 and 12

Credit 1

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Students develop a higher degree of proficiency in the four language skills: speaking, reading, listening, and writing. Cultural material is integrated into the learning process to enable students to develop an understanding and appreciation of the Spanish-speaking world. The objective is to prepare students to be conversant in the Spanish language.

**PREREQUISITE:** Honors Spanish 4.

## **PHYSICAL EDUCATION/HEALTH**

### **712 CP Physical Education**

PhysEd

Grades 9, 10, 11, 12

Credit .5

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This is a well-rounded physical education course that provides a variety of experiences to enhance the physical fitness of students, develop cardiovascular fitness, flexibility, agility, strength, cooperation, and coordination. Students recognize the value of physical activity for health, enjoyment, challenge, self-expression, and social interaction.

### **722 CP Physical Education/Wellness**

PE/Wellness

Grades 11 and 12

Credit 1

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This course is a continuation of physical education at an advanced level of participation in individual and team sports. The topics of wellness and life-long fitness are integrated in the course. Approval of the Athletic Director is required.

### **732 CP Health Education**

Health

Grades 9, 10, 11 and 12 Required

Credit .5

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The focus of this course is health and wellness. The course provides educational experiences, which promote health-enhancing behaviors in students' personal lifestyles. Topics include skills for leading a healthy life, lifestyle diseases, self-esteem, mental health, managing stress and coping with loss, understanding drugs and medicine, and preventing infectious diseases. This course is offered in both semesters. Physical Education is the complement to the other part of the year.

# **VISUAL AND PERFORMING ARTS**

## ***McCafferty Honors Visual and Performing Arts Program***

TCHS offers a four-year sequence in piano, visual art, band, orchestra, choir, dance or theatre. The four-year course of study requires graduated levels in the subject area. Unless specifically noted, visual and performing art classes are open to any TCHS student so they may satisfy the visual and performing art credit required for graduation.

<b>COURSE</b>	<b>GRADE 9</b>	<b>GRADE 10</b>	<b>GRADE 11</b>	<b>GRADE 12</b>
<b>Dance **</b>	Dance 1 <b>plus</b> Dance Company	Dance 2 <b>plus</b> Dance Company	Dance 3 <b>plus</b> Dance Company	Honors Dance 4 – Final Project <b>plus</b> Dance Company
<b>Piano</b>	Piano 1	Piano 2	Piano 3	Piano 4 or Accompanist <b>plus</b> AP Music Theory
<b>Band</b>	Symphonic Band	Symphonic Band	Chamber Winds	Honors Chamber Winds <b>plus</b> AP Music Theory
<b>Orchestra</b>	Chamber Strings	Chamber Strings	Chamber Strings	Honors Chamber Strings <b>plus</b> AP Music Theory
<b>Choir</b>	Concert Choir	Honors Chamber Choir	Honors A Cappella Choir	Honors A Cappella Choir <b>plus</b> AP Music Theory
<b>Visual Art</b>	Basic Studio Art	Intermediate Studio Art	Advanced Studio Art	Honors Advanced Studio Art 2 <b>and</b> Senior Art Project
<b>Theatre**</b>	Speech & Drama <b>plus</b> Technical Theatre	Theatre <b>plus</b> Theatrical Dance	Advanced Acting <b>or</b> Acting & Directing <b>plus</b> Women in Theatre & Film	Honors Senior Theatre and Final Project

**\*\* After school required component.**

# MUSIC

## **817 CP Symphonic Band**

SymphBand

Grades 9, 10, 11, 12

Credit 1

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This course provides intermediate/advanced woodwind, brass, and percussion instruction in a class setting. Emphasis is placed on ensemble fundamentals and individual technique through performance of classical and contemporary wind band literature. Students are required to purchase concert and travel apparel. Extra rehearsals and performances are required as part of this course. Some students will be selected to perform in the marching band, which performs locally and at school and community events. A marching band uniform is provided by TCHS for these students.

**PREREQUISITES:** Student has played a band instrument in an ensemble for at least one school semester.

## **808 H Chamber Winds**

ChamWinds

Grades 11 and 12

Credit 1

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Chamber Winds is a smaller select ensemble that focuses on repertoire of an advanced caliber that places more responsibility on the individual instrumentalist. Students continue to receive instruction in music theory, as well as an overview of music history. Chamber Winds shares some repertoire with Band/Orchestra and performs some of the larger works with them.

**PREREQUISITES:** Instrumental audition demonstrating advanced level of musicianship, and permission of the instructor and Department Chair.

## **806 CP Chamber Strings**

CPStringOrc

Grades 10, 11, 12

Credit 1

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TCHS Chamber Strings provide intermediate/advanced string instruction in a class setting. Emphasis is placed on ensemble fundamentals and individual technique through the performance of string and full-orchestral literature. For select performances, the Band combines with the Chamber Strings to form the TCHS Symphonic Orchestra. The Chamber Strings perform in school and community concerts. Extra rehearsals and performances are required as part of this course. Chamber Strings receive further instruction in the fundamentals of instrumental music and beginning music theory, including intermediate and advanced rhythm, scales, key signatures, intervals, and major and minor modes.

**PREREQUISITES:** Student has played violin, viola, cello, or bass in an ensemble for at least one school semester.

## 807 H Chamber Strings

HStringOrc

Grade 12

Credit 1

TCHS Chamber Strings is an auditioned ensemble that provides advanced string instruction in a class setting. Emphasis is placed on ensemble fundamentals and individual technique through the performance of string and full-orchestral literature. For select performances, the Band combines with the Chamber Strings to form the TCHS Symphonic Orchestra. The Chamber Strings perform in school and community concerts. Extra rehearsals and performances are required as part of this course. Chamber Strings receive further instruction in the fundamentals music theory, including advanced rhythm, scales, key signatures, intervals, and major and minor modes, advanced intervals and triads.

**PREREQUISITES:** Instrumental audition demonstrating advanced level of musicianship, and permission of the instructor and Department Chair.

## 813 CP Concert Choir

ConcertChoir

Grades 9, 10, 11, 12

Credit 1

TCHS Concert Choir is the largest vocal ensemble. This choir receives instruction in the fundamentals of singing and beginning music theory, including the staff, rhythm, piano keyboard, major scales, key signatures and intervals. As this is a performance-based course, rehearsals and concert performances are mandatory. The Concert Choir, with the Chamber Choir and the A Cappella Choir perform at the TCHS Christmas Concert and the TCHS Spring Concert. After school rehearsals are held the week prior to each concert. Additionally, some performances may be held outside of school hours and/or off-site. Choir members are expected to participate. New choir members are expected to purchase Concert Apparel.

**PREREQUISITES:** Vocal audition and permission of instructor.

## 814 H Chamber Choir

ChamChoir

Grades 10, 11, 12

Credit 1

TCHS Chamber Choir is a smaller select ensemble that focuses on repertoire of an advanced caliber that places more responsibility on the individual singer. Students continue to receive instruction in music theory, as well as an overview of music history. Chamber Choir shares some repertoire with Concert Choir and performs some of the larger works with them, in addition to doing community service with that group at Christmas and other engagements.

**PREREQUISITES:** Concert Choir, Vocal audition demonstrating advanced level of musicianship and permission of instructor.

## 816 H A Cappella Choir

ACappella

Grades 11 and 12

Credit 1

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TCHS A Cappella Choir is the most advanced vocal ensemble course. Students receive advanced instruction in vocalizing and music theory, including triads, inversions, and 4 note chords. A Cappella Choir performs in all the school Liturgies, the Christmas and Spring concerts, the Adjudication festival concert, as well as other performances at the school, and outside venues. (A gig list is given each year with the syllabus). Singers are vocally challenged through advanced levels of singing and complex harmonies. To increase creative expression, singers are also asked to perform music with choreography. Singers learn to work in small groups (sectionals) and become leaders within the group. To increase aesthetic awareness, students are encouraged to research interesting multicultural choral groups and present them to the instructor. A Cappella 2 students also engage in the Project Based Learning (PBL) method with composing and arranging. The TCHS A Cappella Choir shares some repertoire with Chamber Choir and Concert Choir.

**PREREQUISITES:** Chamber Choir, vocal audition demonstrating advanced level of musicianship and permission of the instructor.

## 823 CP Piano 1

Piano1

Grades 10, 11, 12

Credit 1

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This course offers entry-level instruction in piano technique, practice habits, organizational skills, keyboard theory, sight-reading, and performance. Beginning music theory is covered, including staff notation, rhythm, major scales and key signatures.

## 824 CP Piano 2

Piano2

Grades 10, 11, 12

Credit 1

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This course reinforces and continues the development of technical skills, keyboard theory, sight-reading, and performance. Music theory units cover intermediate and advanced rhythm, major scales and key signatures and minor scales and key signature.

**PREREQUISITES:** Piano 1, audition and/or permission of instructor.

### 828 CP Piano 3

Piano3

Grades 11 and 12

Credit 1

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This courses offers expansion and practical application of previously acquired skills. Music theory units cover advanced scales and key signatures, advanced intervals, advanced rhythms and triads. Opportunities for accompanying school ensembles are available based on instructor recommendation.

**PREREQUISITES:** Piano 2, audition and/or permission of instructor.

### 829 CP Piano 4

Piano4

Grade 12

Credit 1

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This courses offers further expansion and practical application of previously acquired skills. Music theory units cover all major and minor scales, blues scales, advanced rhythms, triads and inversions. Opportunities for accompanying school ensembles are available based on instructor recommendation.

**PREREQUISITES:** Piano 3, Audition and/or permission of instructor.

### 810 AP Music Theory

AP MusThry

Grades 10, 11, 12

Credit 1

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This advanced level course is designed to engage students in learning activities that help them to achieve the outcome assessed by the College Board's AP Music Theory exam. The course is designed to develop a student's ability to recognize, understand, and describe the basic materials and processes of music that are heard or presented in a score. These abilities are developed through various listening, performance, written, creative, and analytical exercises. Although this course focuses on music of the Common Practice Period (1650-1850), materials and processes found in other styles and genres are also studied. Students are encouraged to sit for the College Board's AP Theory exam. Students who successfully complete the AP Music Theory Exam and plan to major in music in college, may be able to enroll in an advanced music theory course, depending upon the individual college's policy.

**PREREQUISITES:** Permission of Department Chair.

## **826 CP Guitar 1**

Guitar1

Grades 9, 10, 11, 12

Credit .5

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Students learn the basic fundamentals and techniques of playing acoustic guitar including tablature, chords, fingerpicking, and music notation. Music theory units covered are staff notation, beginning and intermediate rhythm and piano keyboarding. Instruments are provided. Students purchase a book. At least one school performance is mandatory.

## **827 CP Guitar 2**

Guitar2

Grades 9, 10, 11, 12

Credit .5

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This class is a continuation of Guitar 1. Guitar 2 performs pop songs, ensemble pieces and uses more advanced techniques of acoustic guitar. Instruments are provided. Music theory units covered include major scales, key signatures, and intervals. At least one school performance is mandatory.

**PREREQUISITES:** Guitar 1, Audition and permission of instructor.

# **ART**

## **831 CP Basic Studio Art**

StudArt

Grades 9, 10, 11, 12

Credit 1

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This foundation course covers the basic handling of tools, materials, and techniques. In this design course students understand how art works through the elements of art and principles of design and are able to identify them in artwork and describe their significance. Students write about and discuss concepts, ideas, styles, and artists, as well as produce art, solving technical, visual, and creative problems encountered by all artists. They learn beginning exercises that can be practiced outside of class to improve their observational skills. As a first requirement in the VPA concentration for Visual Arts, this course provides all the foundational skills for students to continue in the VPA concentration, including gridding an image. Descriptions of art elements and smaller exercises are covered before major projects on the topic are created.

**PREREQUISITES:** Permission of instructor and Department Chair.

### **833 CP Intermediate Studio Art**

IntArt

Grades 10, 11, 12

Credit 1

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This course is a continuation of Basic Studio Art with an emphasis on using previously acquired skills and knowledge of art elements and principals of design to complete major art pieces. The subjects of facial features and perspective are introduced as well as the material acrylic paint. Composition is stressed along with increasing proficiency when using materials introduced in Studio Art. Students continue to learn about the rich diversity of art forms that have been made throughout history and around the world.

**PREREQUISITES:** Grade B+ or above in Basic Studio Art or Grade B+ in Art Appreciation and permission of instructor and Department Chair.

### **832 CP Advanced Studio Art**

AdvStudioArt

Grades 11 and 12

Credit 1

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This course is a continuation of Intermediate Art and is structured in the same way. Concept and observational drawing and/or painting are introduced. Students complete projects that express ideas, values, and feelings that are important to individuals and society. Projects are more open-ended and students must write statements defending their choices. Students begin to develop a personal portfolio as they analyze the relationship between ideas, materials, and the art-making process. Students continue to learn about the rich diversity of art forms in art history as personal research is required.

**PREREQUISITES:** Grade B+ or above in Intermediate Studio Art and permission of instructor and Department Chair.

## **839 H Advanced Studio Art 2 and Senior Art Project**

ArtCapst

Grade 12

Credit 1

This is the final course for seniors in the VPA Visual Arts Concentration. Students analyze and synthesize ideas, materials, and the art-making process, and the relationship between them, to create artwork for their capstone art portfolio on a specific theme of their choice. The topic can be formally or conceptually driven, as long as students are able to discuss and defend their ideas in depth. Twelve pieces are required for the portfolio with a minimum of 8 that support their portfolio topic being made during this class or the summer before. Artist statements and image lists are required. Students participate as peer art critics and keep a personal sketchbook. Students are required to check in with the instructor twice a quarter for in-depth discussions about their progress and ideas for future projects. Although not required, this class is meant to prepare students for the AP Art Exam in the spring for those wishing to make more art pieces. Students have the option to participate in the off-campus senior art show.

**PREREQUISITES:** Grade B+ or above in Advanced Studio Art or Grade B+ or above in Intermediate Art with submission of portfolio proposal and personal art work. Also permission of instructor and Department Chair.

## **846 CP Sculpture and 3-D Design 1**

Sculp1

Grades 10, 11, 12

Credit .5

This course introduces students to thinking conceptually and creating dimensionally. Students are taught sculpture and 3-D design skills using a variety of materials such as plaster, wood, wire cardboard, paper, and found objects. Students research and learn about artists that predominately work in 3-D. Creativity and thinking *“outside of the box”* is encouraged.

## **847 CP Sculpture 2**

Sculp2

Grades 10, 11, 12

Credit .5

This course introduces students to thinking conceptually and creating dimensionally. Students are taught sculpture and 3-D design skills using a variety of materials such as plaster, wood, wire, cardboard, paper, and found objects. Students learn about and research artists that predominately work in 3-D. Creativity and thinking *“outside of the box”* is encouraged.

**PREREQUISITE:** B+ in Sculpture 1.

## **834 CP Art Appreciation**

ArtAppr

Grades 9, 10, 11, 12

Credit 1

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This course is a modified version of Basic Studio Art. Students practice beginning exercises that they can use outside of the classroom to improve their observational skills. After Students complete projects that focus on a specific art element or principal of design. Emphasis is placed on the therapeutic process of art-making and art movements throughout art history cultures. Artist research is required.

## **Theatre**

### **861 CP Speech and Drama**

Sp/Drama

Grades 9, 10, 11, 12

Credit .5

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Students improve the art of communication in the first quarter with writing and performing simple introductory speeches. Students acquire the skills to write and present a three to five minute speech on a topic that interests them. Students learn how to deal with stage fright. During the second quarter students delve into the Dramatic Arts by preparing (learning lines, blocking, etc.) and performing a 30-minute Children's Theatre Production at a near-by childcare center.

### **864 CP Theatre**

Theatre1

Grades 10, 11, 12

Credit .5

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This course begins with an overview of the History of Theatre and looks at playwrights through the centuries, such as Euripides, Shakespeare, and Moliere. Students explore pantomime, improvisation, and scene-work. The culmination of the class is the presentation of a five-minute scene from a play of the student's choice.

### **865 CP Tech Theatre and Sound Production**

TechTheat

Grades 9, 10, 11, 12

Credit .5

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Students learn elements of theatrical production, including set design, color-coding a scene, costuming and make-up, light-designing and how to operate a soundboard. Students may run the backstage crew for our theatrical productions.

## **866 CP Women in Theatre and Film**

WomenTheat

Grades 11 and 12

Credit .5

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This course examines the history of women on stage, in play writing and in film. The theater was a sexist place for many centuries. Women were not allowed to attend the theater until the 4th Century BC, let alone act in it. Males played all of Shakespeare's characters and we explore how women "broke" into this field. The class explores this topic with films, such as *Camille*, *Mildred Pierce*, *Carmen Jones*, and *Dial M for Murder*.

## **867 CP Acting and Directing**

Act&Direct

Grades 11 and 12

Credit .5

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Students learn how to go deeper into the acting process by connecting their own experiences and emotions to the characters they portray. Students use the Stanislavski method and learn how to create a sub-text for stage characters. Students learn vocal exercises to help them project and enunciate on stage. Finally, students apply what they learned by directing their peers in short scenes.

## **870 CP Theatrical Dance**

Theat/Dance

Grades 10, 11, 12

Credit .5

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This class combines learning the styles of famous choreographers such as Gene Kelly, Ginger Rogers, and Bob Fosse. We then take their techniques and create our own dance steps with the help of a guest choreographer. This course requires after school hours.

**PREREQUISITE:** Must be enrolled in the VPA Theatre Concentration or have approval of instructor.

## **869 CP Advanced Acting**

AdvActing

Grade 11

Credit 1

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Advanced Acting is a year-long course made available to juniors in the VPA Theater Concentration. It is not a required course. Students must memorize lines and blocking for up to five half-hour plays. Another aspect of Advanced Acting is studying Shakespeare's plays. We delve into *Hamlet* in the beginning of the year and later, *The Merry Wives of Windsor*. Other students may be invited to take the course.

**PREREQUISITE:** Permission of the instructor.

## **868 H Senior Theatre and Final Project**

TheaProjH

Grade 12

Credit 1

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This course is the culmination of the 4-year VPA Theatre Concentration. The seniors choose a 30-minute scene from a play and cast, direct, design lighting, sound, costumes, make-up, etc. The performances are viewed on an evening in late April. Juniors (taking Advanced Acting (869) are cast in the seniors' capstone projects. This is a required course for seniors in the VPA Theatre Concentration.

**PREREQUISITE:** Permission of the instructor.

## **Dance**

### **872 CP Dance 1**

Dance1

Grade 9 VPA Honors Program  
Grades 10, 11, 12 – VPA Credit

Credit 1

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This course serves as the introduction to the Honors Visual and Performing Arts Dance Program for all Freshmen. Students learn basic technical and performance skills in the dance techniques of Ballet, Jazz, and Modern/Contemporary. Additionally, students are introduced to improvisation, dance wellness through somatic practices, and influential choreographers and performers. The year culminates with a performance in the Spring Dance Concert demonstrating the skills and vocabulary learned throughout the year.

**Additional requirements for VPA Honors Program:** Dance Company (includes mandatory after-school rehearsals and external performances.)

**PREREQUISITES:** Admittance to the VPA Honors Program is by audition only. Ninth grade students must be current members of the VPA McCafferty Honors Program in Dance.

## 873 CP Dance 2

Dance2	Grade 10 VPA Honors Program Grades 10, 11, 12 – VPA Credit	Credit 1
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Students develop technical and performance skills, beyond the beginning level in Ballet, Jazz and Modern/Contemporary dance. Students continue the study of improvisation and somatic practices and begin to study dance composition. The year culminates with a performance in the Spring Dance Concert demonstrating the skills and vocabulary learned throughout the year *and* presenting the dance component of a research and choreography project on an influential choreographer or performer.

**Additional requirements for VPA Honors Program:** Dance Company (includes mandatory after-school rehearsals and external performances).

**PREREQUISITES:** Completion of Dance 1 AND approval of instructor.

## 876 CP Dance 3

Dance3	Grades 11 VPA Honors Program Grades 11, 12 VPA Credit	Credit 1
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Students develop technical and performance skills in the high intermediate levels of Ballet, Jazz and Modern/Contemporary dance. Additionally, students utilize their skills in improvisation and composition, along with their knowledge of dance history and wellness practices, to begin to develop their own choreographic style. The year culminates with a performance in the Spring Dance Concert demonstrating the skills and vocabulary learned throughout the year and presenting their solo and/or small group choreographic projects in the Concert.

**Additional requirements for VPA Honors Program:**

Dance Company (includes mandatory after-school rehearsals and external performances).

**PREREQUISITES:** Completion of Dance 2 and approval of instructor.

## 877 H Dance 4

Dance4

Grades 12 VPA Honors Program

Credit 1

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This course is the culmination of the 4-year VPA Dance Concentration. The Dance 4 Honors class focuses on building the students' dance improvisation, composition, and production skills. Students continue developing their technical and performance skills in the high intermediate levels of Ballet, Jazz, and Contemporary dance, ultimately applying the knowledge gained through their time in the VPA Dance Program to manage a small cast of dancers as they create their Capstone Project. The Capstone Project is a choreographic work that the student will choreograph, score, and design costume and lighting elements. This is a required course for seniors in the VPA Dance Concentration.

**PREREQUISITES:** Completion of Dance 3 and approval of instructor.

## **CCBC DUAL ENROLLMENT COURSES**

The following courses are offered through our Dual-Enrollment partnership with CCBC and require an additional fee. Each class is worth 0.5 TCHS credit. If you have any questions about the Dual-Enrollment courses with CCBC, please contact the College Counselor.

### **253 CCBC Introduction to Psychology/PSYC 101**

Coll Psych

Grades 11 and 12

TCHS: 0.5 Credit

CCBC: 3 Credit

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Introduction to Psychology surveys the science of psychology and the application of critical thinking skills. Topics include research methods, biological bases of behavior, sensation and perception, states of consciousness, learning, memory, motivation and emotion, language, lifespan development, intelligence, stress and health, social behavior, personality, and abnormal behavior and its treatment. Applications of psychology in a culturally diverse world are also discussed.

## **251 CCBC Abnormal Psychology/PSYC 201**

AbnormPsy	Grades 11 and 12	TCHS: 0.5 Credit CCBC: 3 Credit
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Abnormal Psychology examines the causes, diagnosis, assessment, symptoms, treatment, and prevention of mental disorders; includes historical and current theoretical perspectives, classification systems, cultural perspectives and legal/ethical issues.

**Prerequisite:** 253 CCBC Introduction to Psychology/PSYC 101

## **270 CCBC Introduction to Sociology/SOCL 101**

IntrSoc	Grades 11 and 12	TCHS: 0.5 Credit CCBC: 3 Credit
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Introduction to Sociology is a course in which students examine social interactions and the use of sociological perspectives to explain the individual relationships, as well as interactions among the groups and societies that shape them. Students cover basic concepts such as culture, socialization, social inequality, social power, deviance, social control, institutions, and global issues.

## **308 CCBC Introduction to Health Careers/ALHL 104**

HeaCareers	Grades 11 and 12	TCHS: 0.5 Credit CCBC: 2 Credit
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Introduction to Health Careers provides opportunities to examine interests in allied health careers with emphasis on programs at CCBC; includes sessions at the CCBC Essex Career Development Center, campus library, and an area hospital. Presenters from CCBC allied health programs will visit the class.

## **501 CCBC Fundamentals of Communications/CMNS 101**

FundCommun	Grades 11 and 12	TCHS: 0.5 Credit CCBC: 3 Credit
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Fundamentals of Communications introduces the study of human communication. Students develop an understanding of the theoretical principles of verbal and non-verbal interaction by analyzing and applying these principles in a variety of communication contexts. Areas of study include intrapersonal, interpersonal, cross-cultural, small group, and public speaking.

### **453 CCBC Intriduction to Business/MNGT 101**

FundCommun	Grades 11 and 12	TCHS: 0.5 Credit CCBC: 3 Credit
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Introduction to Business examines the functions in business and develops a framework for the further study of business; serves as an interdisciplinary course drawing from such areas as marketing, product strategy, finance, and business ethics.

### **370 CCBC Astronomy/ASTM 101**

Astronomy	Grades 11 and 12	TCHS: 0.5 Credit CCBC: 3 Credit
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Astronomy is a course in which students examine observations and theories regarding the place of Earth in the Universe. Students will investigate other planets, stars from their formation in nebulae to their deaths as stellar remnants, galaxies, and the expanding universe. ASTM 102 Astronomy Laboratory, serves as the accompanying lab.

### **150 CCBC College Composition 1/ENGL 101**

Eng101	Grades 11 and 12	TCHS: 0.5 Credit CCBC: 3 Credit
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College Composition 1 is a course on critical thinking, reading, and composing practices with an emphasis on integrating appropriate research and academic documentation. Students develop rhetorical strategies, employing writing processes to compose for a variety of purposes and audiences.

### **160 CCBC Creative Writing/ENGL 209**

CreaWrit	Grades 11 and 12	TCHS: 0.5 Credit CCBC: 3 Credit
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Intended for students interested in writing poetry and/or short fiction, Creative Writing offers instruction and practice in the creation of imaginative structures; writing forms include poems, short stories, and brief dramas.

**Prerequisite:** 150 CCBC College Composition 1/ENGL 101

### **461 CCBC Introduction to Statistical Methods/MATH 153**

StatMethod

Grades 11 and 12

TCHS: 0.5 Credit

CCBC: 4 Credit

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Examines statistical methodology and use of critical judgment in analyzing data sets. Topics include descriptive statistics, introduction to probability, normal and binomial distributions, hypothesis testing, confidence intervals, regression and correlation, chi-square distribution. A statistical computer package such as StatCrunch, Minitab, etc. is introduced as a computational tool and integrated throughout the course. Course offered every fall, spring and may be offered during additional sessions.

### **502 CCBC Introduction to Data Communications/DCOM 101**

IntDataCom

Grades 11 and 12

TCHS: 0.5 Credit

CCBC: 3 Credit

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Introduction to Data Communications explores an informational and theoretical foundation necessary for students to comprehend an overview of the concepts, theory, principles, and practices of data communications and computer networks. Students survey networking hardware including servers, switches, and routers. Students also investigate networking software including operating systems, protocols, and services, and network management, including server administration, virtualization, cloud computing, and security. The course is designed for a student pursuing a career in networking.

### **465 Introduction to Accounting/ACCT 101**

Accounting

Grades 11 and 12

TCHS: 0.5 Credit

CCBC: 3 Credit

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Introduction to Accounting is a course that provides students with an in-depth overview of the accounting cycle for sole proprietorships including skills such as record-keeping, double-entry accounting, and preparation of financial statements using accounting principles and theories.

## 616 CCBC Introductory Japanese 1/WLJP 101

Japanese	Grades 11 and 12	TCHS: 0.5 Credit CCBC: 3 Credit
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Introductory Japanese I develops cross-cultural communication and global citizenship through the acquisition of reading, writing, listening, and speaking skills in Japanese at a novice level. It provides connections to other disciplines and cultures through the study of Japanese and develops an awareness of the cultural contributions and socio-political contexts of diverse, often underrepresented groups throughout the Japanese-speaking world. Topics related to local and global diversity provide the context through which language skills are taught and learned. Communicative competence at a novice level is emphasized, and learning is supported by instructional technologies.

**NOTE:** This course does not count as World Language credit at TCHS.

## 617 CCBC Introduction to American Sign Language/ASLS 101

SignLang	Grades 11 and 12	TCHS: 0.5 Credit CCBC: 3 Credit
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Introduction to American Sign Language is a course designed to develop basic syntactical knowledge of American Sign Language (ASL). The course will focus on specific language and cultural behaviors, as well as introducing students to the grammar of ASL. Both receptive and expressive skills are the focus of the course, with a major emphasis on receptive skills. Students are provided exposure to the culture of the Deaf community and its relationship to other diverse groups. Students will participate extensively in interactive classroom activities using the “voices off” policy to ensure ASL immersion. Students will use video technology to record their work and receive feedback from the instructor. Students must have access to a webcam and computer for homework assignments.

**NOTE:** This course does not count as World Language credit at TCHS.