



Trinity-Byrnes
Collegiate / School

CURRICULUM GUIDE 2015-16

Table of Contents

Introduction	1
Credit/Graduation Requirements	1
Textbooks	2
Courses at-a-Glance	2
Course Selection/Placement	4
Overview	4
Course Descriptions	5
ENGLISH	5
MATHEMATICS	7
SOCIAL STUDIES	10
SCIENCE	13
WORLD LANGUAGES	16
CREATIVE ARTS	18
COMPUTER SCIENCE/TECHNOLOGY	20
OTHER ELECTIVES	21
INDEPENDENT STUDIES AND ONLINE COURSES	21

Introduction

Credit/Graduation Requirements

At least twenty six (26) academic credits are required to earn a TBCS diploma. A year-end grade of 76 (D) or lower in any core academic course may require Summer School or another form of remediation, including repetition of the entire course.

Subject Area	Credits Required	Notes
English	4	4 years of High School English are required
Mathematics	4	4 years of High School Math are required
Social Studies	3	Must include World & US History
World Languages	3	3 years in the <i>same</i> language are required
Science	3	Biology & Chemistry + 1 additional lab science
Fine/Creative Arts	1	
Computer Science	1	
Physical Education	1	Dance may count as PE credit. Varsity letter counts as 0.5 credit
World Religions	0.5	A semester in comparative world religions is required
Electives	5.5	
TOTAL	26	

Upper School Credits in Middle School

Students who complete the following courses in Middle School may be awarded high school credit that counts towards graduation requirements:

- Algebra 1
- French, Spanish or Latin 1 (or completion of language 1a/1b sequence)
- Physical Science

Middle School school students who are placed into and complete other high school classes, due to ability or other reasons, will also be awarded the appropriate high school credit.

Additional Requirements

Fifteen (15) hours of community service per year is required of each student. A minimum of 5 hours must be completed with a non-profit or community organization. The balance may be completed in service to the school, at the discretion of the Head of School.

GPA

GPA's are calculated from grades in courses taken during grades 9-12, and in some cases during grade 8. Honors and AP courses are weighted in determining the grade point average, but do not affect the end-of-year grade average. Only grades for courses in academic subjects (English, World Languages, Social Studies, Mathematics, and Science) are used to determine an academic GPA.

Class Ranking

Due to the small size of the school and of individual classes, and because of our superior academic program, Trinity-Byrnes Collegiate does not provide class rankings or include them on transcripts except when required by college admissions offices or when necessary for scholarship applications.

Textbooks

The majority of our courses have eTexts, iBooks, on-line texts, web-based assignments, or other on-line components. It is therefore strongly recommended that students have internet access at home in order to take full advantage of our digital learning program. Students who prefer to use hard copy texts are, of course, allowed to do so.

Courses at-a-Glance

English Students in every grade are required to take a full year of English instruction. In Middle School we offer both on level and honors-track courses. In the Upper School, students begin the formal study of literature with Introduction to Literary Forms (English 2) in Grade 9. American Literature (English 3) is studied in Grade 10, and British Literature (English 4) in Grade 11. The 12th grade English courses are Themes in Literature and Advanced Placement (AP) Literature or Advanced Placement Language. Students who meet the course pre-requisites and have teacher recommendation may request to take AP English Language or Literature in 11th grade.

Mathematics Students in every grade are required to take a full year of Mathematics instruction. Placement in a particular Mathematics course is contingent upon successful completion of the prerequisite course. The normal sequence of courses includes a minimum of Pre-Algebra/Math 8, Algebra I, Geometry, Algebra II. Upper level math classes include Advanced Functions, Pre-Calculus, Calculus (Honors or AP), and Statistics (Honors or AP).

Social Studies Students study World Geography in Grade 7, United States and South Carolina History (through Civil War and Reconstruction) in Grade 8, and World History in Grade 9. Students in 10th grade take History of Modern Europe and Modern Middle East/North Africa (Afro-Eurasia). United States History is studied either at Honors or AP level in Grade 11. Elective offerings include (AP) Psychology, AP European History, AP Art History and Global Connections. We strongly recommend -since many in-state colleges require- that students take Economics & US Government. A semester class in comparative World Religions is also a requirement.

Science Students study Life Science in Grade 7, and Physical Science in Grade 8. In the Upper School the usual sequence is Biology, Chemistry, then Physics or one of our other science offerings, including Anatomy & Physiology, Marine Biology, and Forensic Science. Advanced Placement courses are available in Biology, Environmental Science, Chemistry and Physics.

Languages Trinity-Byrnes Collegiate offers a choice of instruction in Modern and Classical Languages: Spanish, French, Latin and Greek. French, Spanish, and Latin can be taken through the fourth or fifth year of study. Three years of the same language are required for graduation. Students are allowed to take more than one language, with departmental recommendation.

Computer Science/Information Technology Middle School students receive instruction in keyboarding proficiency, Microsoft Office applications, Google Apps, design, online research skills & digital citizenship. A High School credit in I.T. is required for graduation, and current courses include Being Digital, Digital Media, Digital Publishing and Web design. Using iPads, Macs and PCs, students in these courses will develop competency in a range of productivity, creative and Web 2.0 applications. Skills may include graphic design & image manipulation (InDesign, Photoshop), digital audio production & podcasting (GarageBand), media design & production (iMovie, FinalCut Express).

Creative Arts A program of studio art, drama, dance and music begins in 7th grade, with opportunities to study both theory and practice, and to perform in formal and informal contexts. An Upper School arts credit is required for graduation and may be gained in Studio Art, Dance, Drama, AP Art History, Photography, Art Portfolio, or Music.

Religious Studies A one-semester high school course in Comparative World Religions is required for graduation.

Physical Education All students are required to take Physical Education classes in Middle School. A Health curriculum is also a part of this program. Students must gain 1 credit in PE during Upper School. This can be gained by participation in a year of PE or Dance class, or by playing in 2 seasons of varsity athletics.

Independent Studies, Online Learning, Dual Enrollment In the Upper School, a student may propose to do an independent study, which can include online/distance learning. The Assistant Head of School for Academics approves proposals that are endorsed by one of the student's parents, the supervising teacher, the student's advisor, and Department Coordinator. Students enrolling and completing semester dual enrollment or concurrent courses (defined as those arranged between Trinity-Byrnes Collegiate School and colleges and universities), may be awarded graduation credits, with advance written permission of the Head of School/Assistant Head of School for Academics.

Study Skills Program Students who require (per IEP or 504 Accommodations Plan) or who are referred to the Study Skills program for additional academic and organizational support may work with our Learning Specialist in the Learning Center.

Course Selection/Placement

Overview

We offer a range of courses across all subject areas that are intended to provide a level of challenge and interest appropriate for the diversity of our student population. Upper School students in grades 9 -11 are expected to enroll in a minimum of six courses each semester. Seniors may choose to take only five courses if they are carrying a very heavy course load (e.g. multiple AP courses) and are on pace to graduate.

It is important that each student take courses that are appropriately challenging. Advice on placement should be sought from the relevant course teacher, the student's advisor, our College Counsellor, or from the Assistant Head of School for Academics. In selecting courses, particular attention should be paid to departmental recommendations and to any pre-requisites for a course.

Advanced Placement courses are designed to prepare students for the College Board AP exams in May. They are college level courses and the AP exam (*for which an approximate \$95 fee is charged*) is required in order to gain AP credit. These courses are very rigorous and require a level of commitment and time that generally far exceeds that of CP or Honors classes. Only those students who meet the pre-requisite grades in prior courses and have teacher recommendation will be considered for AP course enrollment. The school reserves the right to refuse to schedule or to remove a student from an AP course when it believes such action to be in the best interest of the student or the class. Class size limits may also affect decisions regarding individual student placement.

Academic staff make recommendations for student placement for the upcoming year based on a student's record of work in current classes. In the vast majority of cases students and parents are in agreement as to the best placement. On occasion a family may insist on placement at a level above that which has been recommended for a particular course. Families should understand that when this is the case student performance will be reviewed at Interim and end of the 1st Quarter, and the school reserves the right to change class for a student who is not performing well or for whom placement is obviously not appropriate.

Course Descriptions

ENGLISH

English 7

Students in Grade 7 read four major types of literary texts: fiction, literary nonfiction, poetry, and drama. Seventh grade students create written work that has a clear focus, sufficient detail, coherent organization, effective use of voice, and correct use of the conventions of written Standard American English. Students must also clarify and refine research topics using print and non-print sources. English 8 or English 1 Honors are the courses that follow English 7.

Pre-requisite: none

English 8

This course is the on-level 8th grade English language and literature program. Students consolidate and build on the skills and knowledge gained in English 7 in order to be prepared to begin the regular track of upper school English classes, beginning with English 1, in 9th Grade.

Pre-requisite: none

English 1 Honors or CP

Students in English I will read and analyze four major types of literary texts: fiction, literary non-fiction, poetry, and drama. Students will also create written work that has a clear focus, sufficient detail, coherent organization, effective use of voice, and core use of standard American English. They will build vocabulary by word analysis and vocabulary strategies while focusing on specialized and academic vocabulary. They will also access and use information from a variety of sources for research purposes.

Pre-requisite: none

English 2 - Introduction to Literary Forms (Honors or CP)

In this class, taken predominantly by 9th graders, students will expand their skills in reading and analyzing literature, writing, and research. Students in English 2 will read and analyze four major types of literary texts: fiction, literary nonfiction, poetry, and drama. Students will also create written work that has a clear focus, sufficient detail, coherent organization, effective use of voice, and core use of standard American English. They will build vocabulary by word analysis and vocabulary strategies while focusing on specialized and academic vocabulary. They will also access and use information from a variety of sources for research purposes.

Pre-requisite: Honors requires a minimum grade of B in English 1 Honors; students with a 90 or above in English 1 CP may, with teacher recommendation, request English 2 Honors. CP requires successful completion of English 1.

English 3 - American Literature (Honors or CP)

This is our standard 10th grade course, offered at either Honors or CP level. In this course, students will study selected literary works such as novels, plays, nonfiction, and poetry primarily by American authors and may include selections from the anthology as well as Hawthorne, Crane, Remarque, Hemingway, Fitzgerald, Miller, and Faulkner. Students will also study vocabulary, public speaking, and the research paper process. Students will continue to review elements of grammar and composition.

Pre-requisite: Honors requires a minimum grade of B in English 2 Honors; students with a 90 or above in English 2 CP may, with teacher recommendation, request English 3 Honors. CP requires successful completion of English 2.

English 4 - British Literature (Honors or CP)

This course is offered at Honors or CP level for Juniors and Seniors. British Literature traces the evolution of the English language from Old English to Modern English through a study of the literature of each historical period. The course also emphasizes vocabulary, grammar, and composition.

Pre-requisite: Honors requires a minimum grade of B in English 3 Honors; students with a 90 or above in English 3 CP may, with teacher recommendation, request English 4 Honors. CP requires successful completion of English 3.

AP English Language & Composition

The AP course in English Language and Composition engages students in becoming skilled readers of prose written in a variety of rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions between a writer's purposes, audience expectations, and subjects, as well as the way genre conventions and the resources of language contribute to effectiveness in writing. This course may be taken either Junior or Senior year if a student has met the pre-requisites and has a teacher recommendation.

Pre-requisite: Strong performance in English 1-3/4 - usually a minimum of 90 - and the recommendation of the instructor. Students must sit the AP exam in May.

AP English Literature & Composition

The AP English Literature and Composition course engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism and tone. This course may be taken either Junior or Senior year if a student has met the pre-requisites and has a teacher recommendation. The May AP test is required for all students to earn AP credit for this course.

Pre-requisite: Strong performance in English 1-3/4 - usually a minimum of 90 - and the recommendation of the instructor. Students must sit the AP exam in May.

Contemporary Literary Themes Honors

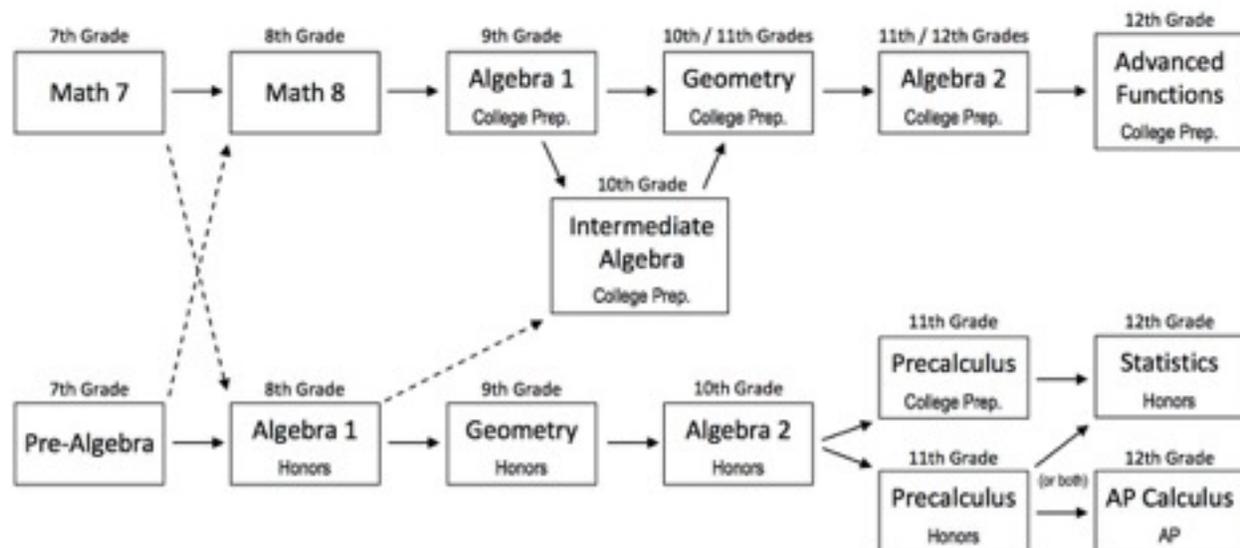
This Junior or Senior course explores major themes in contemporary works of literature. Students will read, discuss, and analyze literary selections. They will examine author's techniques, research, and write about a variety of works including literature from different cultures, authors and societies. The course will help students become more culturally literate and globally aware while developing vocabulary, reading, comprehension, and composition skills.

Pre-requisite: Successful completion of English 4.

MATHEMATICS

Math Course Sequencing

Our math program is designed to allow students with different levels of interest and ability in math to succeed in the subject. The sequences are outlined below, but we allow flexibility where appropriate based on student needs and teacher recommendation.



Math 7

This is a 7th grade course driven which includes the Standards for Mathematical Practice and the Standards for Mathematical Content. The goal of Math 7 is to ensure mastery of 7th grade mathematical standards to fully prepare students to progress to higher-level courses. Students in will generally progress to Math 8, then Algebra 1 in 9th grade.

Pre-Algebra

Pre-Algebra is taken by students in 7th grade who have a strong grasp of math content and practices and who will be ready for Algebra 1 Honors in 8th grade. This is an introductory course of algebraic concepts to help students fully understand the concepts and skills necessary to succeed in Algebra 1. Placement into Pre-Algebra as a 7th grader is dependent on a minimum grade of 85/B- in 6th grade mathematics, a sufficient math score on standardized tests, and teacher recommendation.

Math 8

This on-level 8th grade course provides a “bridge” between Pre-Algebra/Math 7 and Algebra 1 and utilizes the NCTM standards to prepare students for the rigors of Algebra 1 in 9th grade.

Algebra 1 - Honors or CP

Students may enter Algebra 1 after taking either Pre-Algebra or Math 8. It may be taken in 8th grade for Honors credit, or at CP level in 9th grade. Algebra 1 introduces basic algebraic skills and concepts focusing on mathematical problem solving. It includes operations with real numbers, simplifying expressions, evaluating and solving equations and inequalities, graphing, functions, polynomials, factoring, and quadratic equations. Real world applications are presented within the content. Algebra 1 is a pre-requisite for Geometry.

Pre-requisite: Honors requires a minimum grade of B in Pre-Algebra. CP has no pre-requisite.

Geometry - Honors or CP

Students take Geometry after completing Algebra 1 or Intermediate Algebra. This course is concerned with questions of shape, size, relative position of figures, and the properties of space. It covers the basic language and concepts of geometric logic, as well as geometric transformations and coordinate systems.

Pre-requisite: Honors requires a minimum grade of B in Algebra 1 Honors; students with a 90 or above in Algebra 1 CP may, with teacher recommendation, request Geometry Honors. CP requires successful completion of Algebra 1.

Algebra 2 - Honors or CP

Generally taken after completing Geometry, this course is an accelerated study of the number system, functions, graphs, polynomials. It is the study of problem solving using algebraic methods. Students on an honors track generally proceed as Juniors to Precalculus Honors after Geometry.

Pre-requisite: Algebra 1 & Geometry. Honors requires a minimum grade of B in Geometry Honors; students with a 90 or above in English 1 CP may, with teacher recommendation, request English 2 Honors. CP requires successful completion of English 1.

Precalculus CP

Precalculus combines the trigonometric, geometric, and algebraic techniques needed to prepare students for the study of calculus, and strengthens students' conceptual understanding of problems and mathematical reasoning in solving problems. Precalculus is the study of advanced functions, including: higher-degree polynomials, rational functions, exponential, logarithmic, and trigonometric (including laws, identities and applications). A Texas Instrument calculator is required for this course.

Pre-requisite: Successful completion of Algebra 2.

Precalculus Honors

This course is for students with strong ability in math and will prepare them for AP Calculus AB should they choose. It involves the study and application in greater depth of the material covered in the CP level course, above, and includes some additional topics and projects. Students in Precalculus Honors can take either AP Calculus (AB) or AP Statistics as seniors. The choice should be based on math ability and performance in Precalculus, preparation necessary for future studies, and interest. A Texas Instrument graphing calculator is required for this course.

Pre-requisite: Minimum grade of B in Algebra 2 Honors and teacher recommendation. Students with a 90 or above in Algebra 2 CP may, with teacher recommendation, request Precalculus Honors.

Calculus Honors

This course follows Precalculus for those students not wishing (or not yet ready) to take AP calculus AB. The course covers functions, limits, and continuity, differential calculus, and an introduction to integral calculus.

Pre-requisite: A minimum grade of B in Precalculus Honors and teacher recommendation.

AP Calculus (AB)

The course covers the theory and application of the derivative and its interpretation as an instantaneous rate of change using numerical, graphical and analytical approaches. The theory of the definite integral and antiderivatives is developed with strong focus on applications in geometry and physics. The course follows the College Board curriculum in order to

adequately prepare students to take the AP examination, which is required for the completion of the course. A Texas Instrument graphing calculator is required for this course.

Pre-requisite: A minimum grade of 90 in Precalculus Honors and teacher recommendation.

Statistics Honors

This is an Honors level course which is designed to walk students through the process of gathering data, describing it graphically and analytically, making inferences and testing hypotheses with the data, and communicating their results clearly and accurately at each step of the process. Students cover the four major themes in statistics: exploratory analysis, planning data production, probability, and statistical inference.

Pre-requisite: A minimum 90 grade in Precalculus Honors or Algebra 2.

AP Statistics

This is an Honors level course which is designed to walk students through the process of gathering data, describing it graphically and analytically, making inferences and testing hypotheses with the data, and communicating their results clearly and accurately at each step of the process. Students cover the four major themes in statistics: exploratory analysis, planning data production, probability, and statistical inference.

Pre-requisite: A minimum grade of 90 in Precalculus Honors and teacher recommendation.

Advanced Functions

Advanced Functions and Modeling provides a general survey of mathematical topics that are useful in the contemporary world while strengthening students' knowledge of fundamental mathematics. Students will develop the ability to understand and reason with quantitative issues and mathematical ideas they are likely to encounter in college, career, and adult life. The course follows Algebra 2 and provides an option (along with AP/Honors Statistics) for a fourth year of fundamental mathematics for those students who are not going to pursue a college major that requires Calculus.

Pre-requisite: Successful completion of Precalculus or Algebra 2.

SOCIAL STUDIES

World Geography 7

World Geography is a broad survey course of world geography. Students will be able to demonstrate an understanding of both Physical & Human Geography including weather, climate, vegetation, oceans & seas, and world resources. The course outlines the five major themes of world geography with an emphasis on the study of social, environmental, economic, and political issues that impact today's world.

SC History and The Founding Fathers

Students in 8th grade take a broad survey course of South Carolina History during the 1st semester, contrasting the political, social, and environmental aspects -both past and present- that play a role in the story of South Carolina. The Founding Fathers is an exploration of the people and the documents that forged the early history of the United States.

World History (Honors)

This year-long class will explore major themes in world history from the beginnings of "civilization" through the Cold War. The course material is anchored to geographical areas such as river valleys, plains, oceans, and mountain ranges. Themes include the importance of geography and climate on historical development, and transnational forces like migration, trade, empire-building, and cultural diffusion in producing historical change. Students will learn the basics of historical thinking by analyzing primary sources, researching historical questions, and reporting their research in thesis-driven essays and presentations to the class.

Pre-requisite: none

History of Afro-Eurasia (Honors)

This two-part course for 10th graders studies the shared modern history of the peoples of Europe, the Middle East, Central Asia, and Africa. In the fall semester, students study modern Europe from 1789 to the present. In so doing, they consider what it means to be "modern", and how European peoples have arrived at and reacted to the modern condition. In the spring semester, students will explore the history of the Middle East and North Africa since the advent of Islam. Here, they will study and challenge western stereotypes of "eastern" peoples. In both classes, students will learn Afro-Eurasia's myriad contributions to world history, sharpen their interpretations of primary sources, and enhance their research, writing, and public speaking skills.

Pre-requisite: Successful completion of World History

US History Honors

This 11th grade course is a survey of American history from pre-Columbian times to the present. Students will learn factual information as a basis for analysis and interpretation, as well as a number of important concepts and thematic patterns in history. They will also expand their skills in critical thinking, evaluation, synthesis, research, and writing. We will examine the political, diplomatic, economic, social, cultural, and myriad other factors that influenced America and Americans and that still resonate with Americans today.

Pre-requisite: Successful completion of World History and Afro-Eurasia

Psychology Honors

The purpose of Honors Psychology is to introduce students to the systematic and scientific study of the behavior and mental process of human beings. Students will learn about this science through lectures, assigned readings, research, dialogue, and projects.

Advanced Placement Art History

AP Art history emphasizes understanding works of art within their historical context by examining issues such as politics, class, religion, patronage, audience, gender, function, and ethnicity. The AP Art History course also teaches students how to understand works of art through both visual and contextual analysis. Students must have completed World History. Students who have taken Studio Art 2 and AP Modern European History will be well-prepared for this course.

Pre-requisite: strong performance (A/B) in previous social studies courses and teacher recommendation.

Advanced Placement European History

This course is a college-level survey of European history from the late antiquity to the present that prepares students to take the AP European History Exam in May. Students will learn factual information as a basis for analysis and interpretation, as well as a number of important concepts and thematic patterns in history. They will also expand their skills in critical thinking, evaluation, synthesis, research, and writing. We will examine the political, diplomatic, economic, social, cultural, and myriad other factors that influenced European development.

Pre-requisite: strong performance (A/B) in previous social studies courses and teacher recommendation.

Advanced Placement Psychology

The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. Students will take the AP Psychology exam in May.

Pre-requisite: strong performance (A/B) in previous social studies courses and teacher recommendation.

Advanced Placement U.S. History

This course is a college-level survey of American history that prepares students to take the AP U.S. History exam in May. The course may be taken by 10th grade students who meet the pre-requisite PSAT score in Writing, who understand the level of reading and commitment required, and are recommended by current English and Social Studies teachers. APUSH is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in U.S. history. Students will learn to assess historical materials -their relevance to a given interpretive problem, reliability, and importance- and to weigh the evidence and interpretations presented in historical scholarship. Students will take the AP US History exam in May.

Pre-requisite: strong performance (A/B) in previous social studies courses and teacher recommendation.

Advanced Comparative Government

This course will cover International Relations and Comparative Government Theory and then apply that knowledge to the study of six countries: the United Kingdom, Russia, China, Mexico, Nigeria, and Iran. Students will study the history of political, social, and economic development in each of the six countries, the current structure of the governments, and the political culture and policy debates in those countries today. As this is an AP course, it will require a substantial amount of reading and written work, as well as some work over the summer. An Advanced Placement (AP) Test will be taken in May.

Pre-requisite: strong performance (A/B) in previous social studies courses and teacher recommendation.

Semester Courses (S)

Economics (S)

This semester-long course explores an overview of both Macro and Micro Economics. This course will utilize guiding questions, projects, essays, tests, quizzes and various reading assignments to frame topics and to guide students through the learning experience towards an understanding of fundamental principles of economics. While not a requirement, it is strongly recommended that students take this course.

U.S. Government (S)

In this semester-long course we will examine the fundamentals of American government and politics, from its roots in the Constitution to today. Students will explore a variety of topics, both historical and current, and will keep up-to-date on current events and issues in American politics. We will also look closely at the structure and institutions of American government and how they operate. While not a requirement, it is strongly recommended that students take this course.

Global Connections (S)

This semester-long discussion and project-based course provides opportunities for enquiry into, and reflection on, key global issues from a personal, local/national and global perspective. Young people globally face unprecedented challenges in an interconnected and information-heavy world, not least in how they will gain a sense of their own active place in the world and cope with changes that will impact on their life chances and life choices. Students will explore stimulating topics that have global significance. The course emphasizes the development and application of skills rather than the acquisition of knowledge.

Philosophy (S)

This semester-long course examines the fundamentals and history of Western philosophy and thought. Students will cover the major periods and ideas of Western thought and how those ideas influenced (and continue to influence) thought, culture, and life to this day.

World Religions (S)

World Religions is a semester-long survey of major religious systems: Judaism, Christianity, Islam, Hinduism, and Buddhism. Students will explore the beliefs, practices, and holy texts of these religions, and examine each's evolution through different historical eras. Essential class themes include the connections between religion and phenomena like gender, violence, ethics, world history, and modernity. To give students a feel for university-level course work, they will conduct original research and present their findings in an atmosphere mimicking an academic conference.

This is a requirement for all students, and is usually taken in 11th or 12th grade, although students with strong writing skills and recommendation from current social studies teacher may take it in 10th grade if their schedule allows.

SCIENCE

Life Science

This introductory course taken by all 7th grade students includes the study of cells, diversity, health & ecology. Science process skills and the scientific method are integrated within these topics.

Physical Science

This 8th grade lab course covers the basics of chemistry and physics. Students will develop a solid foundation in a variety of concepts including matter, energy, atoms, the periodic table of elements, chemical reactions, velocity, acceleration, forces, and Newton's law of motion. Students require a grade of 85 or above in order to receive high school credit for Physical Science in 8th grade.

Biology (Honors)

Biology is offered as a 9th grade lab science. The course includes the following topics: cells, genetics, heredity, evolution, and a survey of the diversity of species. Students are introduced to basic biological concepts. Students cultivate creative thinking skills to apply these concepts to real life.

Pre-requisite: none

Chemistry CP

Chemistry follows in sequence after Biology. This course includes the study of atomic structure, matter and energy, chemical formulas and reactions, acids and bases, and gases. Students in Chemistry CP should ideally be enrolled in Algebra 2 to be able to master the mathematical demands of the course. Skills such as note taking and problem solving will be stressed. The student will be taught laboratory methods used in the sciences to evaluate observations, knowledge and ideas.

Pre-requisite: Successful completion of Biology

Chemistry Honors

Chemistry follows in sequence after Biology. This course includes the study of atomic structure, matter and energy, chemical formulas and reactions, acids and bases, and gases. Students in Chemistry should ideally be enrolled in Algebra 2 to be able to master the mathematical demands of the course. Skills such as note taking and problem solving will be stressed. The student will be taught laboratory methods used in the sciences to evaluate observations, knowledge and ideas.

Pre-requisite: Grade of B or better in Geometry and a grade of B or better in Honors Biology. Exceptions will be made with a teacher recommendation from one of these courses.

Physics Honors

Generally taken after students have completed Honors Chemistry, Physics topics include Kinematics, Newton's Laws, Energy, Fluid Mechanics, Heat, Light/Optics, Thermodynamics, Sound, Electricity, Waves, and Magnetism. Due to the expectation of competency with math, students wishing to take Honors Physics should have already completed Algebra 2.

Pre-requisite: Successful completion of Chemistry and Algebra 2.

Marine Biology

Marine Biology is a year-long science elective for junior and senior students. The course focuses on the Earth's ocean habitats and the physical forces that shape them and surveys the biodiversity of life found in marine ecosystems. Students will have a better understanding of plate tectonics, waves, tides, and climate; deep sea, open ocean, and tidal

life, marine food webs and ecosystems. The course uses a variety of teaching formats, lecture slides, textbook readings, science videos, lab experiences and field trips. Marine Biology is designed to be challenging but not overwhelming to the average junior/senior level science student and assumes prior completion of both Biology and Chemistry.

Pre-requisite: Successful completion of Biology and Chemistry.

Anatomy & Physiology

This elective is an introductory course of human anatomy and physiology, designed to introduce students to the complexities of the human body structure and function and provide them with a solid foundation for future studies in science and medicine.

Pre-requisite: Successful completion of Biology and Chemistry.

Forensic Science (S)

Introduction to Forensic Sciences is a one semester science elective for students who have completed Biology and Chemistry courses. The class is intended to provide students with a perspective on the interdisciplinary fields involved in criminal investigations. The course will use various reading materials, notes from the instructor and lab activities to explore how crime scene evidence is collected and processed.

Pre-requisite: Successful completion of Biology and Chemistry.

Nutrition and Food Science (S)

Food is essential for maintaining the physical and psychological needs of the human body. Food Science and Nutrition explores these needs along with how personal food selection is impacted by social, regional, and religious customs. Classroom experiments demonstrate unique taste perceptions and how visual discernment manipulates taste.

Pre-requisite: Successful completion of Biology and Chemistry.

Advanced Placement Biology

AP Biology is a course for students preparing to take the AP Biology Exam in May. The course is meant to offer a higher level of academic challenge to those students who are motivated and interested in learning Biology at a significantly greater depth of content.

Pre-requisites: Students must have demonstrated their ability by earning a final grade of 90 or above in both Biology and Chemistry courses and have approval of the Science Department Coordinator.

Advanced Placement Chemistry

This course prepares students to take the College Board's AP Chemistry exam in May. Honors chemistry is strongly recommended as a pre-requisite for this class. The AP Chemistry course focuses on a model of instruction which promotes enduring, conceptual understandings and the content that supports them. This approach enables students to spend less time on factual recall and more time on inquiry-based learning of essential concepts, and helps them develop the reasoning skills necessary to engage in the science practices used throughout their study of AP Chemistry.

Pre-requisites: Students must have demonstrated their ability by earning a final grade of 90 or above in both Biology and Chemistry courses and have approval of the Science Department Coordinator.

Advanced Placement Environmental Science

The six themes of this course are: science as a process, energy in ecological processes, the earth as single interconnected system, human impact on natural systems, the social and cultural context of environmental problems, and human survival through sustainable systems. Project work emphasizing sustainability, energy resources and consumption, pollution, the six themes and global change are performed throughout the year. Students will take the APES exam in May.

Pre-requisites: Students must have demonstrated their ability by earning a final grade of 90 or above in both Biology and Chemistry courses and have approval of the Science Department Coordinator.

WORLD LANGUAGES

Latin 1a, 1b

This introductory course for 7th grade students teaches comprehension of the Latin language by practice in reading through which students develop understanding of the social and political history of the Romans. Students will need a good understanding of English grammatical terms and concepts in order to succeed in this course. Students who complete Latin 1b in 8th grade will gain high school Latin 1 credit, counting towards the three year language graduation requirement. High school students who wish to start Latin will, with teacher approval, begin their Latin studies in this class, with the goal of moving directly to Latin 2 the following year.

Pre-requisites: none

Latin 1

Intended for students who have taken Latin 1a in 7th grade, Level 1 Latin teaches comprehension of the Latin language through practice in reading through which students develop understanding of the social and political history of the Romans. Latin students from grade 7 to grade 9 will compete in the National Mythology exam.

Pre-requisites: none

Latin 2 (Honors)

Students in Latin 2 will continue to read and gain a better understanding of Latin; they will recognize and use complex grammatical structures essential for translation and will research and report on specialized customs, classical occupations, and development of Roman government. Students also recognize and use elements of the Latin language to increase their knowledge of their own language. Latin students from grade 7 to grade 9 will compete in the National Mythology exam.

Pre-requisites: Successful completion of Latin 1

Latin 3

Students in Latin 3 will develop comprehension of the language, responding appropriately to more complex written Latin; they will compare classical customs with parallel modern day equivalents and will recognize the influence of the Romans on their own world and make comparisons. Students will also be able to determine the meaning of English vocabulary.

Pre-requisites: Successful completion of Latin 2

Latin 4

Students in Latin 4 will develop comprehension of the language, responding appropriately to more complex written Latin; they will compare classical customs with parallel modern day equivalents and will recognize the influence of the Romans on their own world and make comparisons. Students will also be able to determine the meaning of English vocabulary through analysis of its Latin and Greek part (roots, prefixes, suffixes).

Pre-requisites: Successful completion of Latin 3

French & Spanish 1a, 1b

French and Spanish 1a are the introduction to each of these modern languages. Students who complete French or Spanish 1b in 8th grade will gain high school language 1 credit, counting towards the three year language graduation requirement.

Pre-requisites: none

French 1 & Spanish 1

Level 1 French or Spanish is an introduction to cultural and oral communication skills in the language with emphasis upon oral skills, listening, comprehension and formation of speech patterns, reading, and writing. Students begin to develop language proficiency as they explore the four modes of communication through interaction with authentic texts, materials and internet-based activities. Students usually take French or Spanish 1 in 8th or 9th grade, but in the upper grades students may take Level 1 of either as a second World Language, with recommendation from the Language Department.

Pre-requisites: none

French 2 & Spanish 2

At the end of the Level 2 students will be able to read and communicate in French or Spanish in a range of themed contexts. Students will continue to develop proficiency in listening comprehension, reading, writing, and speaking, and will learn cultural, linguistic, and historical information about the Francophone or Hispanic world.

Pre-requisites: Successful completion of French/Spanish 1

French 3 & Spanish 3 (Honors)

Students in Honors Spanish or French 3 will be able to communicate much more extensively in previous years' topics and are expected to speak in the target language in class on a daily basis. Reading selections come from contemporary sources as well as excerpts from literature across the ages. The course also includes a brief history of Francophone or Hispanic civilization through the study of art, music, and literature. All verb tenses will be introduced or reviewed and all grammar will be refined.

Pre-requisites: Successful completion of French/Spanish 2

French 4 (Honors)

This is an intensive communication-based course that focuses on improving students' ability to express themselves in the target language through exploration of current issues and writing from the French-speaking world. Students are expected to communicate in French in class on a daily basis. Students will significantly enhance proficiency in listening and reading and will gain an understanding of the differences and commonalities in the forms and functions of the language from one community of speakers to another. The course will offer students an understanding of current social, cultural and geo-political issues relevant to the Francophone world and lead students towards a deeper appreciation of their own role as 'global citizens' in the 21st century.

Pre-requisites: Successful completion of French 3

Spanish 4 (Honors)

This is an intensive communication-based course that focuses on improving students' ability to express themselves in the target language through exploration of current issues and writing from the Spanish-speaking world. Students are expected to communicate in Spanish in class on a daily basis. Students will significantly enhance proficiency in listening and reading and will gain an understanding of the differences and commonalities in the forms and functions of the Spanish language from one community of speakers to another. The course will offer students an understanding of current social, cultural and geo-political issues relevant to the Spanish-speaking world and lead students towards a deeper appreciation of their own role as 'global citizens' in the 21st century.

Pre-requisites: Successful completion of Spanish 3

CREATIVE ARTS

Middle School Art (S)

This program will introduce students to the elements and principles of design in art. Focus will be placed on basic concepts such as color theory, drawing techniques, printmaking, 3-D design, ceramics, and painting.

Middle School Dance

This year-long course offers instruction in basic dance techniques, fitness fundamentals, movement qualities, and rhythm with an emphasis on creativity, and performance. MS Dance is open to both boys and girls and is particularly recommended for cheerleaders and other student athletes who wish to improve agility, flexibility and coordination. A short performance will take place in the Spring.

Middle School Music (S)

Middle School Music is a semester-long introductory study into Vocal Performance and Music basics, in which the goal is to obtain a greater understanding of music and to build confidence as a vocal performer. Students will perform in a final Stage Performance, and in the Winter/Spring Concerts.

Middle School Drama

Middle School Drama is an introduction to the study of Dramatic Arts with an emphasis in the area of Theatrical Performance. Students are provided with an overview in all areas of acting and stage production and will grow in their knowledge and confidence through performance. All students will be given the opportunity to participate in a large theatrical production. This is a year-long course.

Studio Art 1

Studio Art offers the high school student an introduction to the four major components of Art (Artistic Perception, Creative Expression, Historical and Cultural Context and Aesthetic Valuing), with a heavy emphasis on Creative Expression. Students will keep a journal in which they record ideas, sketches, vocabulary, criteria and information in a creative way. They will produce several works of art throughout the year that reflect their own personal viewpoints while exploring all types of media in a studio environment.

Pre-requisites: none

Studio Art 2

The course aims to give each student an advanced degree of exposure to the components of art while they develop further their skills in given media areas in an appropriate studio environment. Only those students who have completed Studio Art 1 may take this next level of Studio Art.

Pre-requisite: successful completion of Studio Art 1 or permission of teacher

Introduction to Photography (S)

This semester-long class is an introduction to the use of DSLR cameras and editing software to create aesthetically pleasing photographs. After a general outline of the parts of a camera and the definition of its settings, much emphasis will be put on the use and arrangement of the elements and principles of art to compose chosen subject matter artistically. History, theory and concepts of Photography will also be explored in this course. Assuming that you should use the camera that is most available to you, use of iPads and iPhones will also be a major component of the course. For additional credit, students may also elect to take photographs for Yearbook.

Pre-requisites: successful completion of Studio Art 1 and permission of teacher

Art Portfolio/Art 3 Honors (S)

This class is designed to allow students to further develop the skills of their chosen media as well as beginning to conceptualize the content of their work. Part of the focus of the course is to allow students to begin to experience a more realistic studio environment where they are allowed more freedom to explore with the instructor as a guide.

Pre-requisites: successful completion of Studio Art 2 and permission of teacher

Dance 1

The purpose of this course is to introduce students to dance, its history, its evolution, its impact on society and vice versa, and the importance of the Fine Arts in our culture. Students will acquire knowledge of the body's skeletal, muscular, and nervous system and will discover musical knowledge and the limitless possibilities music provides. The course includes work on several performance pieces. No previous experience in dance is required, and boys as well as girls are encouraged to enroll in this class. All students are expected to participate in a dance performance. Course credit in Dance can be applied to upper school requirements in either Arts or Physical Education.

Pre-requisites: none

Dance 2 & 3 Honors

Aimed at students who already have experience in dance either at school or outside, Dance 2 is a course designed to enhance and develop previous dance technique and composition. Course credit in Dance can be applied to requirements in either Arts or Physical Education. All students are expected to participate in a dance performance.

This is an Honors level course emphasizing creativity and artistic choreographic skills. Students will discover the art of teaching class as well as organizing, casting, and rehearsing a dance performance.

Pre-requisites: Students who have taken Dance 2 may, with teacher approval, take Dance 3.

Drama

In this year-long course students are provided with an advanced study in all areas of acting and stage production. This course includes study of Stage Directions, Parts of the Stage, Movement of the Actor, Positioning of the Actor, Improvisation, Scene Building through Content-less Scenes, and Stanislavsky Method Exercises. All students are expected to participate in a large theatrical production.

Pre-requisites: none

Upper School Music Ensemble

A performing ensemble whose focus and style of music will be dependent upon the students in the class. Basic proficiency on an instrument is required. Participants will prepare to play a variety of music for school functions and the community. The aims of this course include for students to grow as musicians, to learn some music theory, to ROCK!

Pre-requisites: none

COMPUTER SCIENCE/TECHNOLOGY

Middle School Technology

This course is a requirement for all Middle School students and is generally taken in 7th grade. Students will spend 9-week blocks exploring Google/Microsoft/iPad applications, digital citizenship, and mobile app programming. In the final quarter the class may use *Minecraft* and/or code.org as the basis for whole-class project-based activities.

Middle School Robotics

This semester-long course for 7th & 8th graders offers hands-on exploration of robotics equipment and software using the LEGO Education EV3 robotics core set. Students will gain an understanding of basic robotics design and object-based programming, and will use the knowledge and expertise gained in the classroom to compete with other students in the FIRST LEGO League regional competition.

iForce

This online course covers elements of computer architecture, network/cyber security and administration, and networking. Students who are successful in this first level course may continue to the next level of iForce.

Pre-requisites: none

Being Digital (S)

This is our introductory technology course that gives students a good foundation in computer skills and applications. Being Digital is intended for freshmen and sophomores and covers review/mastery of office applications (MS Word, Excel, and PowerPoint, and equivalent Mac applications) and Google apps (including search protocols, Google Maps/Earth, Gmail, Keep), as well as iPad apps. Students will also be able to explore social media, and a range of other digital applications.

Pre-requisites: none

Computer Science Principles

This course covers programming fundamentals, basic computer architecture, and beginning programming skills, as well as some modules from the new AP Computer Science Principles course, which includes+ problem solving, working with data, understanding the internet, cyber security, and programming.

Pre-requisites: none

Yearbook

This elective involves preparing the school's yearbook for publication. Students will be exposed to journalism, editing, page layout, composition, photography, and other skills. When work on the yearbook is complete, the course work will turn to other areas of digital publication. Although Yearbook carries a full elective credit, 0.5 course credit in Yearbook may be applied to requirements for either Computer Science/Technology or Creative Arts.

Those students interested in taking only a semester of Yearbook may choose to focus on sales & marketing in the Fall semester, or design & layout in the Spring.

Pre-requisites: teacher approval based on student experience and/or marketing/layout skills

OTHER ELECTIVES

Middle School PE

Students are required to take PE in grades 7 and/or 8. Middle school PE does not carry credit towards Upper School graduation requirements.

Upper School PE

Students are required to gain at least a one year PE credit during the Upper School grades. Upper School PE will include components involving life skills, conditioning, and aerobic exercise as well as classroom instruction in Health. The PE requirement may also be satisfied by a full year of Upper School Dance. A season of Varsity athletics counts as a 0.5 credit in PE. Students who take part in substantive and regular athletic, dance or similar activities outside of school may, with school approval, count this towards the Upper School PE requirement.

PE/Health 1 (S) Fitness

PE/Health 2 (S) Strength and Conditioning/Weight Training

INDEPENDENT STUDIES AND ONLINE COURSES

Independent Studies

In the Upper School, a student may propose to do an independent study on a topic of his or her choice. Independent Study Proposal Forms are available from the School Office. The Assistant Head of School for Academics approves proposals that are endorsed by one of the student's parents, the supervising teacher, the student's advisor, and Department Coordinator. Proposals must include specific information about the time the independent study requires, the material to be studied, the work to be completed, and the methods for evaluating that work. Completed proposals (with all required signatures) for independent studies should be given to the Assistant Head of School for Academics before **the first Friday in May** or during the first week of school. Students may not do an independent study to satisfy graduation requirements or core course load expectations.

Online Courses

In cases when a student must have a particular course that does not fit into his/her schedule, is transferring into the school and needs to continue a particular course of study, needs to make-up credit for a failed course, or wishes to pursue advanced classes that are not offered at TBCS, online classes present a potential solution. The following rules apply:

- Online classes may not be taken in replacement of or in lieu of classes offered at TBCS except in extenuating circumstances such as for transfer students or due to scheduling conflicts when the classes are needed for graduation. They may, however, be taken as credit recovery courses to make up for failed courses.
- For a student to receive credit for an online course, it must be approved prior to enrollment. Students should submit a written request for approval that outlines the course and the purpose of taking the course.
- It will be assumed that online courses will earn "CP" weighting under the SC Uniform Grading Policy unless higher weighting is requested and approved in advance.
- The sponsoring agency must be an accredited institution. The school reserves the right to refuse any online program when it believes the course does not meet the school's standards for content and rigor.
- TBCS must be able to monitor students' progress in on-line courses and courses must be completed by May 1st in order to be counted toward graduation credits.

DUAL CREDIT

Students enrolling and completing semester dual enrollment or concurrent courses (defined as those arranged between Trinity-Byrnes Collegiate School and colleges and universities), may be awarded graduation credits, with advance written permission of the Head of School, as follows:

- Transfer of one-half unit of credit per college semester course will be allowed.
- TBCS will calculate the concurrent course grade into the semester and cumulative grade average using our regular conversion method.
- TBCS may allow weighted credit for courses paralleling our courses designated as Honors or AP.
- Students enrolling in other college or university courses not designated as concurrent and desiring transfer of credit must petition the administration in advance.
- Parents are responsible for the tuition and fees charged by other educational institutions.



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