



COURSE CATALOG
2017-2018

Trinity Catholic High School

FOUR-YEAR CURRICULUM PLAN

No two students are alike; likewise, no two curriculum plans will be alike. This information is provided as a guide to show how a student may progress through high school. This guide will not replace personal advising from a guidance counselor. Students will take 7 credits per academic year.

Sample Grade Level Core Course Choices

	Grade 9	Grade 10	Grade 11	Grade 12
Religion (4 credits; 1 per year)	Faith Formation I	Faith Formation II	Faith Formation III	Faith Formation IV
English (4 credits; 1 per year)	English I English I Honors	English II English II Honors	English III English III Honors AP English Language	English IV English IV Honors AP English Literature
Math (4 credits; 1 per year)	Algebra I Algebra I Honors Geometry Geometry Honors	Geometry Geometry Honors Algebra II Algebra II Honors Pre-Calculus Pre-Calculus Honors	Algebra II Algebra II Honors Pre-Calculus Pre-Calculus H Calculus H Statistics Honors AP Statistics	Advanced Topics in Mathematics Pre-Calculus Pre-Calculus Honors Calculus Honors AP Calculus AB Statistics Honors AP Statistics
Science (3 credits minimum)	Environmental Sci. Biology Biology Honors	Biology Biology Honors Chemistry Chemistry Honors	Chemistry Chemistry Honors AP Biology Physics Physics Honors	Chemistry Chemistry Honors AP Biology Physics Physics Honors
Social Studies (3 credits minimum)		World History World History Honors AP World History	U.S. History U.S. History Honors AP U.S. History	U.S. Gov./U.S. Gov. Hr AP U.S. Government Economics/Econ. Hr AP Microeconomics
World Language (2 credits minimum)	World Language 1 World Language 2	World Language 1 World Language 2 World Language 3 Honors	World Language 1 World Language 2 World Language 3 Honors World Language 4 Honors	World Language 2 World Language 3 Honors World Language 4 Honors AP Spanish Language
Physical Education (1 credit)	H.O.P.E. Health Opportunities through Physical Ed.			
Electives (1 credit in Fine Arts; 6 credits of electives)	*See elective course offerings chart	*See elective course offerings chart	*See elective course offerings chart	*See elective course offerings chart

Elective Course Offerings for 2017-2018

<p><u>English</u> Creative Writing I (.5) II (.5) Creative Writing III (1 Cr.) Speech I (1 Cr.) Debate I (1 Cr.) Journalism I-IV</p>	<p><u>Performing Fine Arts:</u> Band I, II, III, IV Band Honors V, VI Chorus I, II, III, IV Chorus Honors V, VI Music Tech. & Sound Engineering AP Music Theory 2D Studio Art I 2D Studio Art II Drawing III Honors 3D Studio Art Honors Digital Art Imaging</p>	<p><u>Physical Education (all .5)</u> Beginning Weight Training Intermediate Weight Training Advanced Weight Training Power Weight Training Comprehensive Fitness Team Sports I, II</p>		
<p><u>Practical Arts:</u> <u>Technology</u> Programming 1 Programming 2 Programming 3</p>		<p><u>Social Studies</u> World Cultural Geography Sociology (.5) Psychology (.5) Constitutional Law Honors AP Human Geography Comprehensive Law Hrs.</p>		
<p><u>Science</u> Anatomy Honors Forensic Science Zoology Marine Science</p>	<p><u>Dual Enrollment Options</u></p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;"> Aerospace Technologies Principles of Aeronautics Private Pilot Operations Unmanned Aircraft Systems I/II Flight Physiology </td> <td style="width: 50%;"> Anatomy & Physiology I/II Business Law U.S. History I/II Catholicism The World of Religion </td> </tr> </table>		Aerospace Technologies Principles of Aeronautics Private Pilot Operations Unmanned Aircraft Systems I/II Flight Physiology	Anatomy & Physiology I/II Business Law U.S. History I/II Catholicism The World of Religion
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Everything for the glory of God!

Advanced Studies Track *Summa Cum Laude* Diploma

Qualifications

Successful completion of the following requirements are necessary to obtain a *Summa Cum Laude* Diploma:

1. A minimum of four credits (honors level or higher) in each of the following subjects: English, Mathematics, Science, Social Studies
2. A minimum of four credits of the same world language
3. A minimum of one fine art credit
4. A minimum of one HOPE credit
5. A minimum of five courses must be taken at the Advanced Placement* and/or Dual Enrollment level
6. A minimum of a 3.9 unweighted, cumulative GPA on a 4.0 scale

*Taking an AP course requires completing the AP Exam.



Ranked in the top 5% of Catholic secondary schools nationwide by Catholic Education



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Advanced Studies Track

Cum Laude Diploma

Qualifications

Successful completion of the following requirements are necessary to obtain a *Cum Laude* Diploma:

1. A minimum of four credits (honors level or higher) in each of the following subjects: English, Mathematics, Science, Social Studies
2. A minimum of four credits of the same world language
3. A minimum of one fine art credit
4. A minimum of one HOPE credit
5. A minimum of five courses must be taken at the Advanced Placement* and/or Dual Enrollment level
6. A minimum of a 3.5 unweighted, cumulative GPA on a 4.0 scale

*Taking an AP course requires completing the AP Exam.



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COURSE DESCRIPTIONS

English and Language Arts

- 1000400 ENGLISH FOR HIGH SCHOOL SUCCESS (1.0 CREDIT) GRADE 9**
Prerequisite: Administrative placement
This is a course that presents analytical reading and reasoning skills. Areas covered include organizational skills, reading for comprehension, grammar skills, and paragraph development. Grammar skills will include punctuation, capitalization, parts of speech, proper sentence structure (elimination of fragments and run-on sentences), and identification and use of words that are commonly confused. Students will learn to write and to examine narrative, descriptive, and explanatory paragraphs and compositions. Students will learn to study more effectively. Ninth grade students recommended for this course will take it instead of first year foreign language. It will count as an elective course. It does not replace English I, nor does it meet the graduation requirement for English.
- 1001310 ENGLISH I (1.0 CREDIT) GRADE 9**
This course consists of the study of literature, composition, grammar, vocabulary, and 21st century learning skills. Students will explore diverse genres of literature focusing on poetry, prose and drama. Students will learn reading from a variety of texts for different purposes. Students will practice paragraph development as it relates to essay writing with special emphasis on topic sentence, supporting details, and concluding sentences. The *Six Traits of Writing* tool will be used to develop and improve the writing skills of individual writers. Students will study beginning research skills with emphasis on note taking a documentation of sources. Students will also complete a research project. One literary work may be required home reading each grading period. Before entering this course, students are required to read selections from a **Summer Reading List** to be published by the English department. Students must complete the readings and assignments by the beginning of the course's term. This course meets the graduation requirement for English.
- 1001320 ENGLISH I HONORS (1.0 CREDIT) GRADE 9**
Prerequisite: Placement by examination and/or administrator approval.
This course will encourage academic excellence in English language arts through enriched experiences in literature, writing, speaking, and listening. The content will include, but not be limited to, critical analysis of major literary genres and composition instruction focusing on the writing process in creative, logical, and critical modes. Students will frequently practice all aspects of the writing process. Each student will study, in detail, vocabulary with an emphasis on prefixes, suffixes, and derivatives. Formal speaking experiences will be provided and critical skills of listening and observing will be taught. One literary work will be required home reading each grading period. Before entering the honors course, students are required to read selections from an extended **Summer Reading List** to be published by the English department. Students must complete the readings and assignments by the beginning of the course's term. All students will complete a comprehensive research and inquiry project. This course meets the graduation requirement for English.
- 1001340 ENGLISH II (1.0 CREDIT) GRADE 10**
Prerequisite: Successful completion of English I
Students will study major literary trends and philosophies of world literature. This course surveys authors from Europe, Asia, Africa, and South America. Exercises in composition with emphasis on paragraph construction, vocabulary, and grammar are integral elements of this course. Additionally, Students will compose a generated thesis, MLA format research paper or project. One literary work may be required home reading each grading period. Before entering this course, students are required to read and report on selections from a **Summer Reading List** to be published by the English department. Students must complete the readings and assignments by the beginning of the course's term. This course meets the graduation requirement for English.

- 1001350 ENGLISH II HONORS (1.0 CREDIT) GRADE 10**
Prerequisite: Minimum of 85% average in English I Honors or 95% average in English I.
The content of this course is a more intensive study of World literature, including authors from Europe, Asia, Africa, and South America. Major literary trends and philosophies will be examined in detail. This honors course requires students to write with more depth of understanding, with a greater stylistic control over content, and with a higher level of precision concerning mechanics. For this reason, challenging exercises in composition, vocabulary, and grammar are integral elements of this course, which includes timed essay writing in preparation for the SAT writing section. One literary work will be required home reading each grading period. Additionally, Students will compose a generated thesis, MLA format research paper or project. Before entering this honors course, students are required to read selections from an extended **Summer Reading List** to be published by the English department. Students must complete the readings and assignments by the beginning of the course's term. This course meets the graduation requirement for English.
- 1001370 ENGLISH III (1.0 CREDIT) GRADE 11**
Prerequisite: Successful completion of English II
This course includes the study of the development of American literature through the examination of the evolution of American English and the American culture. This course investigates the major literary and philosophical trends of American authors. Writing a research paper using Modern Language Association (MLA) format is a major component of this course as well as formal speaking skills demonstrated through oral presentation of research. One literary work may be required home reading each grading period. Before entering this course, students are required to read and report on selections from a **Summer Reading List** to be published by the English department. Students must complete the readings and assignments by the beginning of the course's term. This course meets the graduation requirement for English.
- 1001380 ENGLISH III HONORS (1.0 CREDIT) GRADE 11**
Prerequisite: Minimum of 85% average in English II Honors or 95% average in English II.
This course generally covers the same material as English III, but requires additional reading and writing assignments. English III Honors also requires students to write with more depth of analysis and at a higher level in terms of both content and mechanics. In addition, this course helps prepare students who qualify for the English AP Literature and Composition course taken senior year. One literary work will be required home reading each grading period. Before entering this honors course, students are required to read selections from an extended **Summer Reading List** to be published by the English department. Students must complete the readings and assignments by the beginning of the course's term. This course meets the graduation requirement for English.
- 1001420 AP ENGLISH LANGUAGE AND COMPOSITION (1.0 CREDIT) GRADE 11**
(POTENTIAL TO EARN COLLEGE CREDIT)
Prerequisite: Minimum of 90% average in English II Honors and English instructor approval.
This course is designed to challenge the motivated student to perform college level work during the junior year of high school. Students will be given the opportunity to earn college credit through the AP exam given in May. Students should be interested in studying and writing various kinds of analytic or persuasive essays on nonliterary topics. Students will be challenged to become skilled readers of prose written in a variety of rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Students will learn to identify interactions between a writer's purpose and audience expectations, as well as how generic conventions and the resources of language contribute to effectiveness in writing. Additional outside readings and oral presentations are required. Before entering this course, ALL students are required to read selections from an extended **Summer Reading List** to be published by the English department and complete an extensive **SUMMER ASSIGNMENT** wherein students must be prepared to report the details of these readings and to submit academic, critical articles on selected readings due the first week of class. Students are required to take the AP English Language and Composition exam in May. This course meets the graduation requirement for English.

- 1001400 ENGLISH IV (1.0 CREDIT) GRADE 12**
Prerequisite: Successful completion of English III
 This course offers an in-depth study of British Literature and relevant cultural developments. Students will develop the ability to comprehend, interpret, and analyze major literary works through class discussions and critical essays. Writing, vocabulary, and grammar skills will be enhanced through regular in-class papers. Students will compose a self-generated thesis, MLA format research paper. One literary work may be required home reading each grading period. Before entering this course, students are required to read selections from a **Summer Reading List** to be published by the English department. Students must complete the readings and assignments by the beginning of the course's term. This course meets the graduation requirement for English.
- 1001410 ENGLISH IV HONORS (1.0 CREDIT) GRADE 12**
Prerequisite: Minimum of 85% average in English III Honors or 95% average in English III
 This course generally covers the same material as English IV, but requires additional reading and writing assignments. English IV Honors also requires students to write with more depth of analysis and at a higher level in terms of both content and mechanics. One literary work will be required home reading each grading period. Before entering this course, students are required to read and report on selections from a **Summer Reading List** to be published by the English department. Students must complete the readings and assignments by the beginning of the course's term. This course meets the graduation requirement for English.
- 1001430 AP ENGLISH LITERATURE AND COMPOSITION (1.0 CREDIT) GRADE 12**
(POTENTIAL TO EARN COLLEGE CREDIT)
Prerequisite: Minimum of 90% average in English III Honors and English instructor approval or minimum of 85% average in AP English Language and instructor approval
 This course is designed to challenge the motivated student to perform college level work during the senior year of high school. Students will be given the opportunity to earn college credit through the AP exam given in May. Students will engage 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. Additional outside readings and oral presentations are required. Before entering this course, ALL students are required to read selections from an extended **Summer Reading List** to be published by the English department and complete an extensive **SUMMER ASSIGNMENT** wherein students must be prepared to report the details of these readings and to submit academic, critical articles on selected readings due the first week of class. Students are required to take the AP English Literature and Composition exam in May. This course meets the graduation requirement for English.
- 1009320 CREATIVE WRITING I (0.5 CREDIT) GRADE 9-12**
 Students will explore creative writing techniques and tools through individual writing, editing, peer-group critique, and publication. Students will explore the use of creative fiction (short story, poetry, character sketch, novel) and non-fiction (essay, editorial, review). This is an elective; it does not replace any English course, nor does it meet the graduation requirement for English.
- 1009330 CREATIVE WRITING II (0.5 CREDIT) GRADE 9-12**
Prerequisite: Successful completion of Creative Writing I
 This course offers students the opportunity to create poetry, fiction, personal essays, and plays. In-class exercises and at-home writing projects stimulate students to create a major portfolio by the end of the semester. This course also helps to produce the literary magazine, *Irish Ink*. This is an elective; it does not replace any English course, nor does it meet the graduation requirement for English.

- 1009331** **CREATIVE WRITING III (1.0 CREDIT)** **GRADE 10-12**
Prerequisite: Successful completion of Creative Writing I and II
The purpose of this course is to enable students to develop and use grade 11-12 writing and language skills for advanced creative expression in a variety of literary forms. Emphasis will be on development of a personal writing style. This course will provide a thorough and in-depth examination of a variety of short literary collections, including poetry, which includes a variety of professional, peer, and/or teacher examples. Students will write for varied purposes and in varied genres. This course prepares students for writing, editing, and publishing the literary magazine, *Irish Ink*. This is an elective; it does not replace any English course, nor does it meet the graduation requirement for English.
- 1006310** **JOURNALISM II: DIGITAL MULTI-MEDIA INCLUDING TV PRODUCTION** **GRADE 10-12**
(1.0 CREDIT)
Prerequisite: Successful completion of Journalism I
The purpose of this course is to enable students to extend fundamental skills in the production of journalism across print, multimedia, web, and broadcast/radio platforms and to develop further knowledge of journalism history, ethics use, and management techniques related to the production of journalistic media. Students in this course will gather information, write stories, report, and produce the Celtic News as well as other special multimedia presentations, projects, and recordings. This is an elective course which will not fulfill the graduation requirement for English.
- 1006330** **JOURNALISM IV: PRINT MEDIA INCLUDING YEARBOOK** **GRADE 11-12**
(1.0 CREDIT)
Prerequisite: Successful completion of Journalism I
The purpose of this course is to enable students to extend fundamental skills in the production of journalism across print, multimedia, web, and broadcast/radio platforms and to develop further knowledge of journalism history, ethics use, and management techniques related to the production of journalistic media. Students will also be involved in creating and producing the yearbook, *The Celtic*. This is an elective course which will not fulfill the graduation requirement for English.
- 1007330** **DEBATE I (1.0 CREDIT)** **GRADE 10-12**
Prerequisite: Successful completion of Speech I
The purpose of this course is to develop students' beginning awareness, understanding, and application of language arts as it applies to oral communication concepts and strategies for public debate in a variety of given settings. The content should include, but not be limited to: delivering and analyzing a variety of argument and debate formats, delineating and evaluating the argument and specific claims in an oral or written text, demonstrating appropriate formal and informal public speaking techniques for audience, purpose, and occasion, using research and writing skills to support selected topics and points of view, assessing the veracity of claims and the reliability of sources, demonstrating use of techniques for timing and judging debates and other forensic activities, and collaboration amongst peers, especially during the drafting and practicing stages. This is an elective course which will not fulfill the graduation requirement for English.

Fine Arts (Performing Arts)

- 0101300** **2D STUDIO ART I (1.0 CREDIT)** **GRADE 9-12**
Students experiment with the media and techniques used to create a variety of two-dimensional (2-D) artworks through the development of skills in drawing, painting, printmaking, collage, and/or design. Students practice, sketch, and manipulate the structural elements of art to improve mark making and/or the organizational principles of design in a composition from observation, research, and/or imagination. Through the critique process, students evaluate and respond to their own work and that of their peers. This course incorporates hands-on activities and consumption of art materials. This is an elective course which will fulfill the graduation requirement for Fine Arts.
- 0101310** **2D STUDIO ART II (1.0 CREDIT)** **GRADE 10-12**
Prerequisite: Successful Completion of 2D Studio Art I
Students develop and refine technical skills and create 2-D compositions with a variety of media in drawing, painting, printmaking, collage, and/or design. Student artists sketch, manipulate, and refine the structural elements of art to improve mark-making and/or the organizational principles of design in a composition from observation, research, and/or imagination. Through the critique process, students evaluate and respond to their own work and that of their peers. This course incorporates hands-on activities and consumption of art materials. This is an elective course which will fulfill the graduation requirement for Fine Arts.
- 0104360** **DRAWING 3 HONORS (1.0 CREDIT)** **GRADE 11-12**
Prerequisites: Successful Completion of 2D I and II
In this course, students demonstrate proficiency in the conceptual development of content in drawing to create self-directed or collaborative 2-D artwork suitable for inclusion in a portfolio. Students produce works that show evidence of developing craftsmanship and quality in the composition. Through the critique process, students evaluate and respond to their own work and that of their peers. Through a focused investigation of traditional techniques, historical and cultural models, and individual expressive goals, students begin to develop a personal art style. This is an elective course which will fulfill the graduation requirement for Fine Arts.
- 0101350** **3D STUDIO ART HONORS (1.0 CREDIT)** **GRADE 11-12**
Prerequisites: Successful Completion of 2D I and II
In this course, students communicate a sense of 4-D, motion, and/or time, based on creative use of spatial relationships and innovative treatment of space and its components. Instruction may include, but is not limited to, content in green or industrial design, sculpture, ceramics, or building arts. Students address 4-D, the inter-relatedness of art and context, and may also include installation or collaborative works, virtual realities, light as a medium (i.e., natural, artificial, or reflective), or flexible, entered, or activated space. Other concepts for exploration include tension, compression or expansion, intrusions or extrusions, grouping, proximity, containment, closure, contradiction, and continuity. Craftsmanship and quality are reflected in the surface and structural qualities of the completed art forms. Student artists use an art criticism process to evaluate, explain, and measure artistic growth in personal or group works. This course incorporates hands-on activities and consumption of art materials. This is an elective course which will fulfill the graduation requirement for Fine Arts.
- 0108310** **DIGITAL ART IMAGING** **GRADE 11-12**
Prerequisites: Successful Completion of 2D I and II
Students explore the fundamental concepts, terminology, techniques, and applications of digital imaging to create original work. Students produce digital still images through the single or combined use of computers, digital cameras, scanners, photo editing software, drawing and painting software, graphic tablets, printers, new media, and emerging technologies. Through the critique process, students evaluate and respond to their own work and that of their peers to measure artistic growth. This course incorporates hands-on activities, the use of technology, and consumption of art materials. This is an elective course which will fulfill the graduation requirement for Fine Arts.

- 1302300 BAND I (1.0 CREDIT) GRADE 9-12**
Prerequisite: Band director's approval.
This entry-level class, designed for students having little or no previous band experience with woodwind, brass, and/or percussion instruments, promotes the enjoyment and appreciation of music through performance of high-quality, beginning wind and percussion literature from different times and places. Rehearsals focus on the development of critical listening/aural skills; rudimentary instrumental technique and skills, music literacy, and ensemble skills; and aesthetic musical awareness culminating in periodic public performances. This is an elective course which will fulfill the Fine Arts requirement.
- 1302310 BAND II (1.0 CREDIT) GRADE 10-12**
Prerequisite: Band director's approval.
This beginning-level class, designed for students with at least one year of woodwind, brass, and/or percussion ensemble experience, promotes the enjoyment and appreciation of music through performance of high-quality wind and percussion literature. Rehearsals focus on the development of critical listening skills, instrumental and ensemble technique and skills, expanded music literacy, and aesthetic awareness culminating in periodic public performances. This is an elective course which will fulfill the Fine Arts requirement.
- 1302320 BAND III (1.0 CREDIT) GRADE 11-12**
Prerequisite: Band director's approval.
This formative class, designed for students ready to build on skills and knowledge previously acquired in a middle or high school instrumental ensemble, promotes the enjoyment and appreciation of music through performance of high-quality, intermediate-level wind and percussion literature. Rehearsals focus on development of critical listening/aural skills, individual musicianship, instrumental technique, refinement of ensemble skills, and aesthetic engagement culminating in periodic public performances. This is an elective course which will fulfill the graduation requirement for Fine Arts.
- 1302330 BAND IV (1.0 CREDIT) GRADE 11-12**
Prerequisite: Band director's approval.
This intermediate-level course, designed for students who demonstrate proficiency in woodwind, brass and/or percussion techniques, music literacy, critical listening/aural skills, and ensemble performance skills, promotes greater engagement with and appreciation for music through performance and other experiences with a broad spectrum of music, as well as creativity through composition and/or arranging.. Study includes cultivation of well-developed instrumental ensemble techniques and skills, music literacy and theory, and deeper aesthetic engagement with a wide variety of high-quality repertoire. This is an elective course which will fulfill the graduation requirement for Fine Arts.
- 1303300 CHORUS I (1.0 CREDIT) GRADE 9-12**
This entry-level class, designed for students with little or no choral experience, promotes the enjoyment and appreciation of music through performance of beginning choral repertoire from a variety of times and places. Rehearsals focus on the development of critical listening skills; foundational instrumental technique and skills, music literacy, and ensemble skills; and aesthetic musical awareness culminating in periodic public performances. This is an elective course which will fulfill the graduation requirement for Fine Arts.
- 1303310 CHORUS II (1.0 CREDIT) GRADE 10-12**
This beginning-level class, designed for students with one year of experience or less in a choral performing group, promotes the enjoyment and appreciation of music through performance of basic, high-quality choral music. Rehearsals focus on the development of critical listening/aural skills; foundational instrumental technique and skills, music literacy, and ensemble skills; and aesthetic musical awareness culminating in periodic public performances. This is an elective course which will fulfill the graduation requirement for Fine Arts.

- 1303320 CHORUS III (1.0 CREDIT) GRADE 11-12**
This formative class, designed for students with previous participation in a school chorus who have basic knowledge of note-reading and vocal technique, concentrates on providing students opportunities to strengthen existing skills in critical listening, vocal techniques, and ensemble performance using high-quality three- and four-part choral literature. Rehearsals focus on gaining independence in music literacy and aesthetic engagement through critical listening and thinking skills. This is an elective course which will fulfill the graduation requirement for Fine Arts.
- 1303330 CHORUS IV (1.0 CREDIT) GRADE 11-12**
This intermediate-level class is designed for students with previous participation in a high school chorus and moderate skills in critical listening, vocal techniques, music literacy, and choral performance. Rehearsals focus on enhancing these skills and students' aesthetic engagement with music through a variety of high-quality three- and four-part choral literature, providing students with the means to learn how to reflect and use a combination of analytical, assessment, and problem-solving skills consistently to improve their own and others' performance. This is an elective course which will fulfill the graduation requirement for Fine Arts.
- 1304300 MUSIC TECHNOLOGY AND SOUND ENGINEERING 1 (1.0 CREDIT) GRADE 9-12**
Students explore the fundamental applications and tools of music technology and sound engineering. As they create and learn its terminology, students also learn the history and aesthetic development of technology used to capture, create, and distribute music. Public performances may serve as a resource for specific instructional goals. Students may be required to attend one or more performances outside the school day to support, extend, and assess learning in the classroom. This is an elective course which will fulfill the graduation requirement for Fine Arts.
- 1300330 AP MUSIC THEORY (1.0 CREDIT) GRADE 11-12**
(POTENTIAL TO EARN COLLEGE CREDIT)
Prerequisite: Instructor approval.
The purpose of this course is to develop the student's ability to recognize and understand the basic materials and processes in any music that is heard or read in score. After successfully completing this course, the student will: Apply fundamental terminology and notational skills to intervals, key signatures, rhythmic and metric notation, transposition, and musical terms; create elementary compositions in melodies to specifications, two-part counterpoint, harmonization of melodic line, and four-part realization of figured bass symbols and/or Roman numerals; analyze visually pitch organization (melody, harmony, and tonality), rhythmic organization, texture, and form; identify aurally single line rhythms, melodic lines, two-part excerpts, and block chord and other homophonic textures. Before entering this course all students are required to complete an extensive **SUMMER ASSIGNMENT** due the first week of class. Students are required to take the AP Music Theory exam in May. This is an elective course which will fulfill the graduation requirement for Fine Arts.
- 1006300 JOURNALISM I (1.0 CREDIT) GRADE 9-12**
The purpose of this course is to enable students to develop fundamental skills in the production of journalism across print, multimedia, web, and broadcast/radio platforms and to develop knowledge of journalism history, ethics use, and management techniques related to the production of journalistic media. The course will focus on writing processes, production skills for the various media, applications and issues in photojournalism, and analysis of journalistic media. This is an elective course which will fulfill the graduation requirement for Fine Arts.
- 1007300 SPEECH I (1.0 CREDIT) GRADE 9-12**
This course enables students to develop fundamental skills in formal oral communication. The content should include, but not be limited to: formal and informal oral communication skills, forms of oral communication, techniques of public speaking, research, organization, and writing for public speaking, and analysis of public speaking. This is an elective course which will not fulfill the graduation requirement for English. This course will fulfill the Fine/Practical Art requirement.

Mathematics

Regardless of credit earned, all students must take a Mathematics course for every year that they attend Trinity Catholic High School. A graphing calculator is required for math courses; Texas Instruments TI 83 or TI 84 is the teacher-recommended model.

- 1200400 ALGEBRA LAB (1.0 CREDIT) GRADE 9**
Prerequisite: By Placement Only
This course is designed to meet the needs of the individual student while concurrently enrolled in Algebra I. Appropriate benchmarks for each student will be identified to develop an appropriate curriculum. Topics will vary depending on the students and their individual needs. This is a remedial course; it does not meet the graduation requirement for Mathematics.
- 1200310 ALGEBRA I (1.0 CREDIT) GRADE 9**
The fundamental purpose of this course is to formalize and extend the mathematics that students learned in the middle grades. The critical areas, called units, deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend, and students engage in methods for analyzing, solving, and using quadratic functions. The Standards for Mathematical Practice apply throughout each course, and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. This course meets the graduation requirement for Mathematics.
- 1200320 ALGEBRA I HONORS (1.0 CREDIT) GRADE 9**
Prerequisite: Placement by examination and/or administrator approval.
This course is presented as an introduction to higher mathematics on the secondary level. The student studies sets and number lines, numerals and variables, sentences, properties of operations, properties of order, subtraction and division of real numbers, complex fractions, factors, exponents, radicals, polynomials and rational expressions, graphs and open sentences in one and two variables, graphs and methods of solving of quadratic equations. This course meets the graduation requirement for Mathematics.
- 1206310 GEOMETRY (1.0 CREDIT) GRADE 9-10**
Prerequisite: Algebra I
This course emphasizes problem-solving applications. A laboratory approach is utilized in which students are involved in hands-on learning activities. Activities may include the use of calculators, drawing aids, and measuring equipment. The goal of this course is to provide a learning environment that focuses on problem solving involving life experiences and critical thinking skills, rather than textbook problems. Some of these strategies include cooperative learning, group problem solving, class discussion and generation of applied problems. Mathematical topics include right angle relationships, trigonometric functions, geometry in the workplace, spatial visualization; coordinate geometry, transformations, logic, and solving problems involving perimeter, area, and volume. This course meets the graduation requirement for Mathematics.
- 1206320 GEOMETRY HONORS (1.0 CREDIT) GRADE 9-10**
Prerequisite: Minimum of 95% average in Algebra I or 85% average in Algebra I Honors
This course provides students with visual and concrete representations that help them gain insight into important areas of mathematics and their applications. The use of such tools as compass, straightedge, calculator and computer is strongly recommended and encouraged for all geometry courses. Instruction extends beyond the traditional treatment of geometry as a deductive system and provides students with a broad view of geometry and its applications, including algebraic techniques associated with coordinates and transformations that reinforce important geometric concepts such as congruence, similarity, parallelism, symmetry, and perpendicularity. Algebraic skills and concepts to solve geometric problems are also taught. This course meets the graduation requirement for Mathematics.

- 1200330 ALGEBRA II (1.0 CREDIT) GRADE 10-11**
Prerequisite: Algebra I
Building on their work with linear, quadratic, and exponential functions, students extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. The Standards for Mathematical Practice apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. This course meets the graduation requirement for Mathematics.
- 1200340 ALGEBRA II HONORS (1.0 CREDIT) GRADE 10-11**
Prerequisite: Minimum of 95% average in Algebra I or 85% average in Algebra I Honors
This course will present an in-depth study of the topics of Algebra II with an emphasis on theory, proof, and development of formulae as well as their application. Topics will include, but not be limited to, algebraic structure, first degree equations in one and two variables solved algebraically and graphically, systems of equations and inequalities, functions and relations, polynomials and rational expressions, exponents and radicals, logarithms, complex numbers, conic sections, polynomial equations, sequences and series, permutations, combinations and probability, matrices and trigonometric functions. This course meets the graduation requirement for Mathematics.
- 1298310 ADVANCED TOPICS IN MATHEMATICS (1.0 CREDIT) GRADE 11-12**
Prerequisite: Successful completion of Algebra II and Geometry
This course provides students the mathematical tools needed to become financially responsible young adults. Algebra, probability, statistics, and geometry are used to solve financial problems related to investment, credit, banking, auto insurance, mortgage, employment, income tax, budgeting, and planning for retirement. This course meets the graduation requirement for Mathematics.
- 1202340 PRE-CALCULUS (1.0 CREDIT) GRADE 10-12**
Prerequisite: Successful completion of Algebra II and Geometry
This course is designed to introduce the student to a college-level study of calculus. The topics covered include analysis of functions, advanced algebra, vectors, trigonometry, analytic geometry, and an introduction to polar coordinates and limits. This course meets the graduation requirement for Mathematics.
- 1202340 PRE-CALCULUS HONORS (1.0 CREDIT) GRADE 10-12**
Prerequisite: 85% in Alg. II Honors and Geom. H or minimum of 95% in Alg. II and Geometry
The purpose of this course is to enable students to develop concepts and skills in advanced algebra, analytic geometry, and trigonometry. The content should include but not be limited to trigonometric functions and their inverses, trigonometric identities and equations, vectors and parametric equations, structure and properties of the complex number system, polar coordinate system, sequences and series, concept of limits, conic sections, polynomial, rational, exponential, and logarithmic functions, and matrix algebra. This course meets the graduation requirement for Mathematics.
- 1202300 CALCULUS HONORS (1.0 CREDIT) GRADE 11-12**
Prerequisite: Minimum of 85% in Pre-Calculus Honors or minimum 95% in Pre-Calculus
The purpose of this course is to provide a foundation for the study of advanced mathematics. Topics include: elementary functions, limits and continuity, derivatives, differentiation, applications of the derivative, anti-derivatives, definite integrals, applications of the integral, the calculus of exponential and logarithmic functions, growth and decay. This course meets the graduation requirement for Mathematics.

- 1202310 AP CALCULUS AB (1.0 CREDIT) GRADE 12**
(POTENTIAL TO EARN COLLEGE CREDIT)
Prerequisite: Minimum of 90% in Calculus Honors
The purpose of this course is to provide a foundation for the study of advanced mathematics. Topics include: elementary functions, limits and continuity, derivatives, differentiation, applications of the derivative, anti-derivatives, definite integrals, applications of the integral, the calculus of exponential and logarithmic functions, growth and decay. Before entering this course all students are required to complete an extensive **SUMMER ASSIGNMENT** due the first week of class. Students are required to take the AP Calculus exam in May. This course meets the graduation requirement for Mathematics.
- 1210300 PROBABILITY & STATISTICS HONORS (1.0 CREDIT) GRADE 11-12**
Prerequisite: Successful completion of Algebra 2 or Algebra 2 Honors
Statistics teaches students how to apply statistical methods in problem solving and in the evaluation of the many claims that they encounter in their lives, thus increasing their social awareness and enhancing their career opportunities. Required concepts include: data exploration, analysis, and prediction; sampling, surveys, and experimental design; empirical probability, simulation, and theoretical probability; and sampling distributions and inference. Optional topics include nonparametric statistics, geometric probabilities, proof techniques, and analysis of variance. This course meets the graduation requirement for Mathematics.
- 1210320 AP STATISTICS (1.0 CREDIT) GRADE 11-12**
(POTENTIAL TO EARN COLLEGE CREDIT)
Prerequisite: Instructor approval; Minimum of 90% Algebra II Honors and concurrent enrollment in Pre-Calculus H or a minimum of 90% in Pre-Calculus Honors.
The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to four broad conceptual themes: 1. Exploring Data: Describing patterns and departures from patterns 2. Sampling and Experimentation: Planning and conducting a study 3. Anticipating Patterns: Exploring random phenomena using probability and simulation 4. Statistical Inference: Estimating population parameters and testing hypotheses. Before entering this course all students are required to complete an extensive **SUMMER ASSIGNMENT** due the first week of class. Students are required to take the AP Calculus exam in May. This course meets the graduation requirement for Mathematics.

Physical Education

- 1506320 HEALTH OPPORTUNITIES THROUGH PHYSICAL EDUCATION (1.0 CREDIT) GRADE 9**
The purpose of this course is to develop and enhance healthy behaviors that influence lifestyle choices and student health and fitness. This course meets the graduation requirement for HOPE (PE/Health)
- 1503350 TEAM SPORTS I (0.5 CREDIT) GRADE 10-12**
This course will provide students with the opportunity to acquire knowledge of strategies of team sports play, to develop skills in selected team sports, and to maintain and /or improve their personal fitness. Activities will include: basketball, flag football, soccer, softball, track and field, volleyball, and other sports. This class includes developing individual skill drills and learning team concepts. This is an elective course; it does not meet the graduation requirement for HOPE (PE/Health).
- 1503360 TEAM SPORTS II (0.5 CREDIT) GRADE 10-12**
The purpose of this course is to acquire knowledge of strategies of team sports play, develop skills in selected team sports, and maintain/or improve personal fitness. The content will include, but not be limited to: skills, techniques, strategies, rules, safety practices, maintenance and/or improvement of personal fitness. This class challenges students to organize games and activities. This is an elective course; it does not meet the graduation requirement for HOPE (PE/Health).
- 1501390 COMPREHENSIVE FITNESS (0.5 CREDIT) GRADE 10-12**
This course provides the student with opportunities to acquire knowledge and concepts of fitness, design a personal fitness program, and improve health and skill related fitness. This is an elective course; it does not meet the graduation requirement for HOPE (PE/Health).
- 1501340 BEGINNING WEIGHT TRAINING (0.5 CREDIT) GRADE 10-12**
This course will provide students with opportunities to acquire basic knowledge and skills in weight training that may be used in physical fitness pursuits today as well as later in life, to improve muscular strength and endurance and to enhance body image. The content will include muscular strength and endurance, knowledge of health problems, knowledge of skeletal muscles, knowledge of sound nutrition, and knowledge of safety issues related to weight training. This is an elective course; it does not meet the graduation requirement for HOPE (PE/Health).
- 1501350 INTERMEDIATE WEIGHT TRAINING (0.5 CREDIT) GRADE 10-12**
The purpose of this course is to extend the acquisition of knowledge and the development of skills in weight training for current and future physical fitness pursuits, to further improve muscular strength and endurance, and to further enhance body image. The content will include, but be limited to: reinforcement of basic weight-training knowledge, safety practices, expansion of weight-training programs by incorporating new exercises, increasing resistance, and modifying the number of sets and repetitions, various weight-training theories, equipment available in the field to develop muscular strength and endurance, designing, implementing, and evaluating a personal weight-training program. This is an elective course; it does not meet the graduation requirement for HOPE (PE/Health).
- 1501360 ADVANCED WEIGHT TRAINING (0.5 CREDIT) GRADE 10-12**
This course is the continuation from intermediate with the added component of goal setting, bi-weekly testing in certain areas, and with a personal training component. This is an elective course; it does not meet the graduation requirement for HOPE (PE/Health).
- 1501410 POWER WEIGHT TRAINING (0.5 CREDIT) GRADE 11-12**
This course is the continuation from advanced weight training with the added component of Olympic weightlifting. This elective course does not meet the graduation requirement for HOPE.

Science

- 20013409 ENVIRONMENTAL SCIENCE (1.0 CREDIT) GRADE 9-12**
This course will help students strengthen their skills in the areas of academic performance, learning strategies and critical thinking, as they study the interactions between organisms and the environment, biogeochemical cycles, the evolution of life on earth and energy flow. This course reviews the earth and/or the ocean as a living system. The consequences of human activities on the sustainability of that living system are presented and analyzed. Concepts addressed include: ecosystem, resources, energy, population dynamics, sources and effects of pollution. This course meets the graduation requirement for Science.
- 2000310 BIOLOGY (1.0 CREDIT) GRADE 9-11**
The purpose of this course is to provide exploratory experiences and laboratory investigations in the biological sciences. The content includes the nature of science, matter, energy, and the chemical processes of life, cells: biology, reproduction, and communication, genetics: principles, molecular basis, diversity, and biotechnologies, levels of organization, classification, and taxonomy, structure, function, and reproduction of plants, animals, and microorganisms, behavior of organisms, interdependence of organisms, humans, and the environment, biological selection, adaptation, and changes through time. This course meets the graduation requirement for Science.
- 2000320 BIOLOGY HONORS (1.0 CREDIT) GRADE 9-11**
Prerequisite: Placement by examination and/or administrator approval.
The purpose of this course is to provide exploratory experiences and laboratory investigations in the biological sciences. The content includes the nature of science, matter, energy, and the chemical processes of life, cells: biology, reproduction, and communication, genetics: principles, molecular basis, diversity, and biotechnologies, levels of organization, classification, and taxonomy, structure, function, and reproduction of plants, animals, and microorganisms, behavior of organisms, interdependence of organisms, humans, and the environment, biological selection, adaptation, and changes through time. This course meets the graduation requirement for Science.
- 2000340 AP BIOLOGY (1.0 CREDIT) GRADE 11-12**
(POTENTIAL TO EARN COLLEGE CREDIT)
Prerequisite: Instructor approval; 90% average in Biology I Hrs and completion of Chemistry I
This course is the equivalent of two semesters of college Biology. Topics will include, but not be limited to: cellular biology, molecular biology, genetics, DNA technology, structure and function of organisms, cell energetics, ecology, evolution, human biology, and organismal biology. Preparation for the AP exam and test taking techniques will be included. Students will also study of the facts, principles, and processes of biology and the collection, interpretation, and formulation of hypotheses from available data. The content follows the content specified by the Advanced Placement Program of the College Board. Laboratory investigations of selected topics related to the content of the course are an integral part of this course. Before entering this course all students are required to complete an extensive **SUMMER ASSIGNMENT** due the first week of class. Students are required to take the AP Biology exam in May. This course meets the graduation requirement for Science.
- 2000340 CHEMISTRY (1.0 CREDIT) GRADE 10-12**
Prerequisite: Biology I and Algebra I
The purpose of this course is to study the composition, chemical and physical properties of compounds and elements, and chemical reactions of metals and nonmetals, acids and bases, oxidizing agents and reducing agents, chemical formulas, balancing equations and related stoichiometry. Laboratory investigations are an integral part of this course. This course requires the use of mathematical processes, graphical representation, and data analysis. This course meets the graduation requirement for Science.

- 2003350 CHEMISTRY HONORS (1.0 CREDIT) GRADES 10-12**
Prerequisite: Minimum 95% average in Biology I or minimum 85% average in Biology I Honors; successful completion of Algebra I
This course will provide the student with a rigorous study of the composition, chemical and physical properties of compounds and elements, and chemical reactions of metals and nonmetals, acids and bases, oxidizing agents and reducing agents, reaction rates and equilibrium, chemical formulas, balancing equations and related stoichiometry. Laboratory investigations are an integral part of this course. This course requires the use of mathematical processes, graphical representation, and data analysis. This course meets the graduation requirement for Science.
- 2003380 PHYSICS (1.0 CREDIT) GRADE 11-12**
Prerequisites: Chemistry I and Geometry
The purpose of this course is to provide opportunities to study the concepts, theories, and laws governing the interaction of force and motion, matter and energy, conservation of energy and momentum, wave characteristics, electricity and magnetism, and nuclear physics. Laboratory investigations are an integral part of this course. This course requires the use of mathematical processes, graphical representation, and data analysis. This course meets the graduation requirement for Science.
- 2003390 PHYSICS HONORS (1.0 CREDIT) GRADE 11-12**
Prerequisites: Minimum 95% average in Chemistry I or minimum 85% average in Chemistry I Honors; successful completion of Geometry
The purpose of this course is to provide opportunities to study the concepts, theories, and laws governing the interaction of force and motion, matter and energy, conservation of energy and momentum, wave characteristics, electricity and magnetism, and nuclear physics. Laboratory investigations are an integral part of this course. This course requires the use of mathematical processes, graphical representation, and data analysis. This course meets the graduation requirement for Science.
- 2002500 MARINE SCIENCE (1.0 CREDIT) GRADE 11-12**
Prerequisite: Biology I
The purpose of this course is to provide an overview of the marine environment. This course will explore such topics as the nature of science, the origins of the oceans, ecology or various sea zones, and the diversity of marine organisms. Students will also look at characteristics of major marine ecosystems and the interrelationship between man and ocean. This course meets the graduation requirement for Science.
- 2000350 ANATOMY HONORS (1.0 CREDIT) GRADE 11-12**
Prerequisite: 95% average in Bio. I or 85% average in Bio. I Honors & completion of Chem. w/80+
The purpose of this course is to enable students to develop understanding of the relationships between the structures and functions of the human body related to cells and tissues, homeostasis, human genetics, growth and development, body composition, structure, and function, internal and external changes and responses, and connections between anatomy, physiology, medicine, technology, society, and the environment. This course meets the graduation requirement for Science.
- 2002480 FORENSIC SCIENCE I GRADE 11-12**
Prerequisite: Successful completion of Biology and Chemistry
An introduction to the science of solving crimes. Students will learn about cutting-edge forensic science practices such as DNA profiling, digital imaging, and crime scene reconstruction. This course combines aspects of all scientific fields: biology, chemistry, physics, earth science, and computer science.
- 2000410 ZOOLOGY GRADE 11-12**
Prerequisite: Successful completion of Biology
The purpose of this class is to explore the animal kingdom. Students will examine the smallest and most simple animals up to the largest and most complex organisms found on the Earth. Students will also explore the ecological and evolutionary side of zoology.

Social Studies

- 2103300** **WORLD CULTURAL GEOGRAPHY (1.0 CREDIT)** **GRADE 9-12**
Students will develop multicultural understanding and use geographical concepts and skills to acquire information and systematically apply decision-making processes to real-life situations. The interrelationships between people and their environment are examined World cultural regions are studied in terms of location, physical characteristics, demographics, historical changes, economic activity, and land use. This is an elective course; it does not meet graduation requirements for Social Studies.
- 2103400** **AP HUMAN GEOGRAPHY (1.0 CREDIT)** **GRADE 9-12**
(POTENTIAL TO EARN COLLEGE CREDIT)
Prerequisite: Administrator approval. The AP Human Geography course is designed to provide college level instruction on the patterns and processes that impact the way humans understand, use, and change Earth's surface. Students use geographic models, methods, and tools to examine human social organization and its effect on the world in which we live. Students are challenged to use maps and geographical data to examine spatial patterns and analyze the changing interconnections among people and places. Before entering this course all students are required to complete an extensive **SUMMER ASSIGNMENT** due the first week of class. Students must take the AP Human Geography exam in May. This is an elective course; it does not meet graduation requirements for Social Studies.
- 2109310** **WORLD HISTORY (1.0 CREDIT)** **GRADE 10**
This course is a continued in-depth study of the history of civilizations and societies from the middle school course, and includes the history of civilizations and societies of North and South America. Students will be exposed to historical periods leading to the beginning of the 21st Century. So that students can clearly see the relationship between cause and effect in historical events, students should have the opportunity to review those fundamental ideas and events from ancient and classical civilizations. This course meets the graduation requirement for World History.
- 2109320** **WORLD HISTORY HONORS (1.0 CREDIT)** **GRADE 10**
Prerequisite: History or English teacher recommendation
The purpose of this course is to enable students to understand their connections to the development of civilizations by examining the past to prepare for their future as participating members of a global community. Students will use knowledge pertaining to history, geography, economics, political processes, religion, ethics, diverse cultures, and humanities to solve problems in academic, civic, social, and employment settings. This course meets the graduation requirement for World History.
- 2109420** **AP WORLD HISTORY (1.0 CREDIT)** **GRADE 10**
(POTENTIAL TO EARN COLLEGE CREDIT)
Prerequisite: Instructor approval.
The purpose of this course is to enable the students to understand their connections to the development of civilizations by examining the past to prepare for their entrance into the world community. Students will focus on religion, ethics, diverse cultures, geography, political structure and humanities. This course will incorporate all other areas as specified by the Advanced Placement program including outside research. Before entering this course all students are required to complete an extensive **SUMMER ASSIGNMENT** due the first week of class. Students are required to take the AP World History exam in May. This course meets the graduation requirement for World History.

- 2100310 UNITED STATES HISTORY (1.0 CREDIT) GRADE 11**
Prerequisite: World History
The purpose of this course is to enable students to understand the development of the United States within the context of history with a major focus on the post-Reconstruction period. Students will use knowledge pertaining to history, geography, economics, political processes, religion, ethics, diverse cultures, and humanities to solve problems in academics, civic, social, and employment settings. This course meets the graduation requirement for United States History.
- 2100320 UNITED STATES HISTORY HONORS (1.0 CREDIT) GRADE 11**
Prerequisite: Minimum 85% in World History Honors or minimum 95% in World History
The purpose of this course is to enable students to understand the development of the United States within the context of history with a major focus on the post-Reconstruction period. Students will use knowledge pertaining to history, geography, economics, political processes, religion, ethics, diverse cultures, and humanities to solve problems in academics, civic, social, and employment settings. Students will have additional readings and experience a greater depth of study. This course meets the graduation requirement for United States History.
- 2100330 AP UNITED STATES HISTORY (1.0 CREDIT) GRADE 11**
(POTENTIAL TO EARN COLLEGE CREDIT)
Prerequisite: 90% in World History Honors or AP World History; instructor approval
The purpose of this course is to enable students to understand the development of the United States within the context of history with a major focus on the post-Reconstruction period. Students will use knowledge pertaining to history, geography, economics, political processes, religion, ethics, diverse cultures, and humanities to solve problems in academics, civic, social, and employment settings. This course will incorporate all other areas as specified by the Advanced Placement program including outside research. Before entering this course all students are required to complete an extensive **SUMMER ASSIGNMENT** due the first week of class. Students are required to take the AP United States History exam in May. This course meets the graduation requirement for United States History.
- 2106310 UNITED STATES GOVERNMENT (.5 CREDIT) GRADE 12**
Prerequisite: World History and United States History
The purpose of this course is to enable students to gain an understanding of American government and political behavior that is essential for effective citizenship and active involvement in a democratic American society. This course is taken in conjunction with Economics. This course meets the graduation requirement for Government.
- 2106320 UNITED STATES GOVERNMENT HONORS (.5 CREDIT) GRADE 12**
Prerequisite: Minimum 85% in United States History Honors or minimum 95% in US History
The purpose of this course is to enable students to gain an understanding of American government and political behavior that is essential for effective citizenship and active involvement in a democratic American society. Students will have additional readings and experience a greater depth of study. This course is taken in conjunction with Economics Honors. This course meets the graduation requirement for Government.

- 2106330 AP UNITED STATES GOVERNMENT AND POLITICS (.5 CREDIT) GRADE 12**
(POTENTIAL TO EARN COLLEGE CREDIT)
Prerequisite: 90% in United States History Honors or AP United States History; instructor approval
Students acquire a critical perspective of politics and government in the United States. They learn general concepts used to interpret American politics and analyze specific case studies. Students also become familiar with the various institutions, groups, beliefs and ideas that constitute the American political perspective. Before entering this course all students are required to complete an extensive **SUMMER ASSIGNMENT** due the first week of class. Students are required to take the AP American Government exam in May. This course is taken in conjunction with Economics Honors. This course meets the graduation requirement for Government.
- 2102310 ECONOMICS (.5 CREDIT) GRADE 12**
Prerequisite: World History and United States History
The purpose of this course is to provide students with the knowledge and decision-making tools necessary for understanding how society organizes its limited resources to satisfy its wants. Students will gain understanding of choices they must make as producers, consumers, investors, and taxpayers. The class is taken in conjunction with American Government. This course meets the graduation requirement for Economics.
- 2102320 ECONOMICS HONORS (.5 CREDIT) GRADE 12**
Prerequisite: Minimum 85% in United States History Honors or minimum 95% in United States History
The purpose of this course is to provide students with the knowledge and decision-making tools necessary for understanding how society organizes its limited resources to satisfy its wants. Students will gain understanding of choices they must make as producers, consumers, investors, and taxpayers. Students will have additional readings and experience a greater depth of study. The class is taken in conjunction with American Government Honors. This course meets the graduation requirement for Economics.
- 2102360 AP MICROECONOMICS (.5 CREDIT) GRADE 12**
(POTENTIAL TO EARN COLLEGE CREDIT)
Prerequisite: Minimum of 90% in United States History Honors or AP US History; instructor approval
The purpose of the AP course in microeconomics is to give students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. It places primary emphasis on the nature and functions of product markets and includes the study of factor markets and of the role of government in promoting greater efficiency and equity in the economy. Before entering this course all students are required to complete an extensive **SUMMER ASSIGNMENT** due the first week of class. Students are required to take the AP American Government exam in May. This course is taken in conjunction with Economics Honors. This course meets the graduation requirement for Government.
- 2106468 CONSTITUTIONAL LAW HONORS (1.0 CREDIT) GRADE 11-12**
The primary content for the course pertains to the study of major legal precedents and evolving judicial interpretations associated with the United States Constitution. Content should include, but is not limited to, the evaluation of historical and contemporary constitutional dilemmas through an analysis of legal documents, processes and cases; an examination of the evolution of constitutional government from ancient times to the present; a historical review of the British legal system and its role as a framework for the U.S. Constitution; the arguments in support of our republican form of government, as they are embodied in the Federalist Papers; an examination of the constitution of the state of Florida, its current amendment process, and recent amendments approved by Florida voters; a comparison between the constitutional frameworks of other nations with that of the United States; a review and application of major Supreme Court decisions and the impact of both majority and minority opinions; the understanding of constitutional concepts and provisions establishing the power of the courts including separation of powers, checks and balances, the rule of law, an independent judiciary, and judicial review; and appellate processes and procedures to address constitutional questions. This is an elective course; it does not meet graduation requirements for Social Studies.

- 2107300 PSYCHOLOGY (0.5 CREDIT) GRADE 11-12**
Through the study of psychology, students acquire an understanding of and an appreciation for human behavior, behavior interaction and the progressive development of individuals. The content examined in this first introductory course includes major theories and orientations of psychology, psychological methodology, memory and cognition, human growth and development, personality, abnormal behavior, psychological therapies, stress/coping strategies, and mental health.
- 2108300 SOCIOLOGY (0.5 CREDIT) GRADE 11-12**
Through the study of sociology, students acquire an understanding of group interaction and its impact on individuals in order that they may have a greater awareness of the beliefs, values and behavior patterns of others. In an increasingly interdependent world, students need to recognize how group behavior affects both the individual and society. This is an elective course; it does not meet graduation requirements for Social Studies.

STEM Courses & Practical Arts

- 8208110** **PROGRAMMING 1 (1.0 CREDIT)** **GRADE 9-12**
This course is designed to provide an introduction to programming concepts. This course also covers strategies, processes, and methods for conceptualizing a game or simulation application; storyboarding techniques; and development tools. The class instruction will use the Windows OS, students may also use Apple iOS at home because the software is multi-platform. Hands-on activities using the MIT Scratch Programming Environment. The culminating activity is the creation of a playable game.
- 9007410** **PROGRAMMING 2 (1.0 CREDIT)** **GRADE 10-12**
Prerequisite: Successful completion of Programming 1
This course will use the Python language via the PyCharm Programming Environment to teach the fundamentals of programming and software development, procedural and introduction to object-oriented programming, creating regular and specialized applications using the Python programming language, including testing, monitoring, debugging, documenting, and maintaining Python computer applications. The class instruction will use the Windows OS, students may also use Apple iOS at home because the software is multi-platform.
- 9007420** **PROGRAMMING 3 (1.0 CREDIT)** **GRADE 11-12**
Prerequisite: Successful completion of Programming 2
This course will use Microsoft Visual Basic via the .NET Visual Studio Programming Environment to enable students to use extensive object-oriented programming techniques, create Custom Classes & Modules, and develop complete deployable applications that can run on any computer with the .NET framework. The .NET framework is only available for the Windows OS; however, students with Apple Computers at home can install a Windows OS in a dual boot environment if they desire.
- AT101** **AEROSPACE TECHNOLOGIES** **GRADE 9-11**
(Pre-Dual Enrollment - no college credit assigned)
Aerospace covers a broad range of subjects: aviation & space history, principles of flight & navigation, technology, military & civil aircraft, aerospace careers, meteorology and its impact on aviation, rocketry, and outer-space and travel.

Theology

- 2105340 INTRODUCTION TO CATHOLICISM (0.5 CREDIT) INTERNATIONAL STUDENTS**
Prerequisite: Administrator placement
This survey course is designed to prepare students for an in-depth learning in each of the following subject areas. Students will receive an introduction to the Catholic faith in the areas of historical search for meaning and the origins of life, proof of God's existence, the divinity of Christ, the doctrine of the Catholic Church, sacraments, morality, and living as a Christian.
- 2109410 FAITH FORMATION I (1.0 CREDIT) GRADE 9**
1st Semester: The Revelation of Jesus Christ in Scripture. The purpose of this course is to give students a general knowledge and appreciation of the Sacred Scriptures. Through their study of the Bible they will come to encounter the living Word of God, Jesus Christ. In the course they will learn about the Bible, authored by God through Inspiration, and its value to people throughout the world. If they have not been taught this earlier, they will learn how to read the Bible, and will become familiar with the major sections of the Bible and the books included in each section. The students will pay particular attention to the Gospels where they may grow to know and love Jesus Christ more personally.
2nd Semester: Who is Jesus Christ? The purpose of this course is to introduce students to the mystery of Jesus Christ, the living Word of God, and the Second Person of the Blessed Trinity. In this course students will understand that Jesus Christ is the ultimate Revelation to us from God. In learning about who He is, the students will also learn who He calls them to be.
The Catechism of the Catholic Church is introduced to the students as a reference manual; the Bible is a centerpiece for study and prayer. We use the Bible on a regular basis. Our bible of choice is The Catholic Youth Bible® New American Bible. This is the achievement of the nearly fifty biblical scholars who worked diligently to translate the Bible from the original and oldest available texts of the sacred books. In it we make connections to Catholic beliefs and traditions. Because it is understood that the life of the Church is strongest when it prays, to emphasize our role in developing prayer life, we prepare for our faith experiences, especially weekly Mass. The Eucharist is central to our experience of God. Our preparation will emphasize the presence of Christ in the Sacrament and Word, as well as present in the body of Christ.
- FAITH FORMATION II (1.0 CREDIT) GRADE 10**
1st Semester: The Mission of Jesus Christ: The primary focus of this course is to emphasize Christ's saving work in the Paschal Mystery and its effects on the Church. Students return to an examination of Sacred Scripture in the context of the Paschal Mystery and explore the implications for those events on the world. This course follows up on an introductory course on Jesus and the Bible by offering a deeper look at how God reveals himself and how humans respond to the Revelation with faith. It teaches that as Jesus is the fullness of God's Revelation, we are called to a life of discipleship in him. The mystery of the Incarnation and the events in Jesus' life teach us how to be fully human. In learning about Jesus' mission and ministry, we come to understand that the concrete goal of this life and the next is to live in him.
2nd Semester: Jesus Christ's Mission Continues in the Church: *Jesus and The Church* provides a means for understanding the interrelationship of the various components of the Catholic Church. While acknowledging the importance of the historical perspective, this course emphasizes the living Church and what it is in the present moment. The course is constructed around those themes that represent Church practice and belief rooted in her very nature, namely that she is One, Holy, Catholic, and Apostolic. Each theme has a historical component tracing it through major periods of Church history and providing insights as to how the Church has come to its contemporary expression.

2105350

FAITH FORMATION III (1.0 CREDIT)

GRADE 11

1st Semester: Sacraments as Privileged Encounters with Jesus Christ: The purpose of the first half of this course is to help students understand that sacraments are an efficacious sign of grace, instituted by Christ and entrusted to the Church, by which divine life is dispensed to us. Students will learn that they can encounter Christ today in a full and real way in and through the sacraments, especially through the Eucharist. Students will examine each of the sacraments in detail so as to learn how they may encounter Christ throughout life.

2nd Semester: Life in Jesus Christ: The second half of this course helps students understand that it is only through Christ that they can fully live out God's plans for their lives. Students will learn the moral concepts and precepts that govern the lives of Christ's disciples. An emphasis is placed on the basics of moral decision making, especially as regards the Church's social teaching. Students are to learn how Christ's concern for others, especially the poor and the needy, is present today in the Church's social teaching and mission.

2105310

FAITH FORMATION IV (1.0 CREDIT)

GRADE 12

1st Semester: History of the Catholic Church: The purpose of this course is to supply the students with a general knowledge of the Church's history from apostolic times to the present. They will be introduced to the fact that the Church was founded by Christ through the Apostles and is sustained by him throughout history through the Holy Spirit. The students will come to know that the Church is the living Body of Christ today and, as such, has both divine and human elements. In this course, students will learn about the Church's 2,000 years of history and about how the Church is led and governed by the successors of the Apostles.

2nd Semester: Ecumenical and Interreligious Issues (World Religions) The purpose of this course is to help the students understand the manner in which the Catholic Church relates to non-Catholic Christians as well as to other religions of the world. Building on the foundational truth that Jesus Christ established the Catholic Church and entrusted to her the fullness of God's Revelation, the course is intended to help students to recognize the ways in which important spiritual truths can also be found in non-Catholic Christian churches and ecclesial communities as well as in non-Christian religions. It is also intended to help them to recognize the ways in which other systems of belief and practice differ from the Catholic faith.

World Languages

- 0706300** **LATIN I (1.0 CREDIT)** **GRADE 9-11**
Latin 1 introduces students to the target language and its culture. The student will develop a thorough understanding of the written language as well as of the influence the language and culture has had on other world languages, culture, government, arts and laws. Emphasis is placed on proficient understanding in the reading of the language. An introduction to writing is also included as well as culture, connections, comparisons, and communities. Latin students will focus more on reading and interpreting written passages rather than using oral modes of communication.
- 0706310** **LATIN II (1.0 CREDIT)** **GRADE 9-12**
Prerequisite: Latin I
Latin 2 expands the skills acquired by students in Latin 1. Specific content includes, but is not limited to, expansion of vocabulary and translation skills through comprehension of selected readings. Vocabulary and grammar stresses activities which are important to prepare for translating the works of authentic authors in the target language. In presentational speaking and presentational writing, Latin students will present projects and reports of the research they have done about the culture, arts, history, politics, literature and mythology of the target language in English. Latin students will focus more on reading and interpreting written passages rather than using oral modes of communication.
- 0708340** **SPANISH I (1.0 CREDIT)** **GRADE 9-12**
The purpose of this course is to introduce students to the target language and its culture. Such a study will be within the framework of helping students to appreciate and to function in a pluralistic American society. Students will begin to develop communication skills through speaking and listening, followed by writing and reading. Basic vocabulary and grammar will be presented. A variety of materials will be used and different learning styles will be addressed. This course meets the graduation requirement for World Language.
- 0708350** **SPANISH II (1.0 CREDIT)** **GRADE 9-12**
Prerequisite: Spanish I or instructor approval
This course is a continuation of Spanish I. It has increased emphasis on speaking and writing. Students are expected to express themselves more often in the target language. Vocabulary and grammar are expanded as well. The textbook may be supplemented by additional literary materials and cultural supplements. This course meets the graduation requirement for World Language.
- 0708360H** **SPANISH III HONORS (1.0 CREDIT)** **GRADE 9-12**
Prerequisite: 75 or above in Spanish II and permission of instructor
In this course the student achieves a conversational level of fluency in the language. A greater variety of reading selections are discussed in the target language according to the student's ability. Conversation is increased and verb tenses are applied and reviewed. Opportunities for enjoyment of customs, ideas and heritage increase. Literature is also introduced at this level. This course meets the graduation requirement for Foreign Language.
- 0708370H** **SPANISH IV HONORS (1.0 CREDIT)** **GRADE 11-12**
Prerequisite: 85% Spanish III Honors, and permission of instructor
Fluency and conversation in Spanish are continued in this course. This course provides a sampling of Spanish and Spanish-American literary works with an emphasis on vocabulary, written expression and response to foreign literary styles. Students will be able to compare and contrast the different customs and celebrations within the Hispanic world. Students are given greater opportunities for written self-expression. This class is conducted primarily in Spanish. This course meets the graduation requirement for Foreign Language.

0798400

ADVANCED PLACEMENT SPANISH LANGUAGE (1.0 CREDIT)

GRADE 12

Prerequisite: Minimum 85% in Sp IV Honors and Teacher rec.

Class is conducted in Spanish thus students must be able to interact comfortably and logically in a variety of situations in the target language. Students are required to do extensive practice in listening comprehension, recording and composition writing on a variety of topics. Several Spanish and Spanish- American authors are studied. A rigorous vocabulary program is implemented. Students should expect to spend a lot of time studying and practicing speaking, listening and recording. Students will be required to take the Advanced Placement Spanish Language Exam upon successful completion of this course. Before entering this course all students are required to complete an extensive **SUMMER ASSIGNMENT** due the first week of class. Students are required to take the AP Spanish exam in May. This course meets the graduation requirement for Foreign Language.

DUAL ENROLLMENT OPTIONS on TC CAMPUS

St. Thomas University

AMH2010	UNITED STATES HISTORY I (3.0 COLLEGE CREDITS) Prerequisite: 3.0 cumulative gpa A consideration of the development of the United States from its colonial origins to the Civil War with an emphasis on the ideas, institutions, economic, social, and political forces that have contributed to this development.	GRADE 11-12
AMH2020	UNITED STATES HISTORY II (3.0 COLLEGE CREDITS) Prerequisite: 3.0 cumulative gpa A consideration of the development of the United States from the Civil War through the present, with an emphasis on the ideas, institutions, economic, social, and political forces that have contributed to this development.	GRADE 11-12
STM200	CATHOLICISM (3.0 COLLEGE CREDIT) Prerequisite: 3.0 cumulative gpa An examination the foundations of Catholicism, including its theology, spirituality, art, and architecture, from historical and contemporary perspectives. This course is designed to help students explore the Catholic tradition, its history, practices, social teachings, beliefs, and customs particularly in light of Vatican II renewal.	GRADE 12
STM210D	THE WORLD OF RELIGION (3.0 COLLEGE CREDIT) Prerequisite: 3.0 cumulative gpa This course is an exploration of the major religions of human kind, especially Islam, Hinduism, Buddhism, Judaism, Christianity and Taoism.	GRADE 12
BUL2241	BUSINESS LAW (3.0 COLLEGE CREDITS) Prerequisite: 3.0 cumulative gpa The primary content for the course pertains to the study of the components and processes associated with the American legal system and the comprehensive examination of the civil and criminal justice systems. Content should include, but is not limited to, the historical antecedents and purpose for laws, the impact of social values on the establishment and interpretation of laws, causes and consequences of crime, evaluation of the adult and juvenile justice systems, significance of the Bill of Rights to the American legal system and elements of constitutionalism, civil and criminal law, family and consumer law, rights and responsibilities under the law, and the adversarial versus inquisitorial systems of justice.	GRADE 11-12
BSC2084C	ANATOMY & PHYSIOLOGY/ LAB (4.0 COLLEGE CREDITS) Prerequisite: Successful completion of Biology, Chemistry. AP Biology is strongly recommended The purpose of this course is to enable students to develop understanding of the relationships between the structures and functions of the human body. BSC2083/BSC2083L examines molecular and cellular and tissue levels of organization and these organ systems: integumentary, skeletal, muscular, and nervous. It examines the following organ systems: endocrine, cardiovascular, lymphatic, respiratory, immune, digestive, urinary and reproductive. A group of local physicians instruct the students in areas of the human anatomy related to their specialties. Laboratory investigations of selected topics related to the content of the course are an integral part of this course. This course meets the graduation requirement for Science.	GRADE 12

BSC2086C HUMAN ANATOMY & PHYSIOLOGY II/LAB (4 COLLEGE CREDITS)
Prerequisite: Successful completion of BSC2084C
A continuation of BSC2084 that covers the following organ systems: endocrine, cardiovascular, lymphatic, respiratory, immune, digestive, urinary and reproductive. Metabolism, fluid balance and homeostatic mechanisms are included.

Embry-Riddle Aeronautical University

AS120 PRINCIPLES OF AERONAUTICAL SCIENCE GRADE 10-12
(3.0 COLLEGE CREDITS)
Prerequisite: 2.75 cumulative gpa
An introductory course in Aeronautical Science designed to provide the student with a broad-based aviation orientation in flight-related areas appropriate to all non-Aeronautical Science degree programs. Subjects include historical developments in aviation and the airline industry, theory of flight, airport operations aircraft systems and performance, elements of air navigation, basic meteorology theory, air traffic principles, flight physiology, and aviation regulations and safety.

AS121 PRIVATE PILOT OPERATIONS GRADE 11-12
(5.0 COLLEGE CREDITS)
Prerequisite: 2.75 cumulative gpa
This course develops the aeronautical knowledge required for certification as a private pilot with an airplane single engine land rating. Topics include regulations, safety, pre-solo operations, cross-country planning, airspace, chart use, communications, weather, performance, weight and balance, aerodynamics and decision-making.

AS220 UNMANNED AIRCRAFT SYSTEMS GRADE 10-12
(3.0 COLLEGE CREDITS)
Prerequisite: AS120
This course is a survey of the Unmanned Ariel Vehicles (UAV) and systems, emphasizing the military and commercial history, growth and applications of UAVs. Course will include basic acquisition, use and operation of UAVs with an emphasis on operations.

AS235 UNMANNED AIRCRAFT SYSTEMS & CROSS-COUNTRY DATA ENTRY GRADE 10-12
(3.0 COLLEGE CREDITS)
Prerequisite: AS120 & AS220
Systems and navigation equipment of unmanned aircraft. Navigation by ground observers; navigation by GPS-determine position on a ground-based moving map display; fully autonomous GPS-based navigation; entering navigation data into various unmanned aircraft navigational systems.

AS357 FLIGHT PHYSIOLOGY GRADE 11-12
(3.0 COLLEGE CREDITS)
Prerequisite: AS120 & AS220
This course explores aero-medical information. Topics include causes, symptoms, prevention, and treatment of flight environment disorders. Altitude effects, special disorientation, body heat imbalance, visual anomalies, and psychological factors are included as they relate to pilot performance and survival effectiveness.

College of Central Florida (opportunities off-campus) GRADE 12

ENC 1101 Freshman Composition Skills
MAC1105 College Algebra
Students must meet CCF requirements and these classes MUST take place in a T/TH 8:00 schedule to fall within our block schedule time frame. For more information please see your guidance counselor.