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Mission Statement of Trinity High School

Trinity High School, a Catholic, college-preparatory community, provides a safe and caring environment in which students seek and achieve personal and academic excellence and grow in faith. Our students combine learning with leadership through service to their faith, school, and community.

A Message to Students

Throughout your school experience, you have been learning many skills which will enable you to make suitable choices in your life. At Trinity High School, you have the opportunity to make more and more decisions about yourself in preparation for your future.

You and your parents should study the options explained in this curriculum guide in order to arrive at a decision which fits you best. Your teachers, counselors, and administrators are ready to help. Please do not hesitate to call on them for assistance.

The task of selecting courses must be given careful thought, and you must make an all-out effort to ensure that your decisions help you to achieve your future goals. A final selection of courses should represent the best program possible for your individual needs, and, once your choice is made, your best efforts should go into succeeding with it. Your goal should be a challenging but realistic program.

As you plan your courses, you must be aware that many colleges are giving more consideration to students whose high school backgrounds include four years of mathematics, three or four years of science, and who have achieved an advanced level in a world language. Please plan your program with this in mind.

You must plan carefully now to ensure that you reach your goals. Once the school year has started, changes in your program may not always be possible due to class sizes, scheduling conflicts, and the number of sections offered. Class changes will not be made simply to put you in classes with friends or to change teachers. We encourage you to become exposed to as many different teachers and teaching styles as possible at Trinity High School.

A careful selection should be made at this time with the knowledge that no changes will be allowed after the "course change" period (first three weeks of the semester). Please note that courses which are under subscribed will not be offered.

Program of Studies

As a college preparatory high school, Trinity High School offers a liberal arts program which requires that students take a minimum of six courses each semester. Our core curriculum requires students to take Theology, English and Mathematics each year. The following guide is provided to assist in the selection of courses. Final offering of a course will be determined based on the number of students enrolled in the specific course. Please note the graduation requirements listed below.

Graduation Requirements

Theology	4
English	4
Mathematics	4
Lab Science	3
Social Studies (U.S. History*)	3
World Language	2
Fine Arts (Art or Music)	0.5
Physical Education**	0.5
Electives	3.5
Total	24.5

*The US history requirement may be fulfilled with the following courses: Advanced Placement US History or US History .

**Physical Education requirement may be fulfilled by participation in two (2) seasons of interscholastic competition. A student taking PE must take a 7th course one semester.

Course Level Descriptions

Advanced Placement (AP):

“AP courses give students access to rigorous college-level work. AP students build confidence and learn the essential time management and study skills needed for college and career success.” (apstudent.collegeboard.org) These courses require extensive independent study and work outside the classroom. Students who select Advanced Placement courses should possess highly developed reading, writing, speaking, listening, and study skills. Advanced Placement courses strictly adhere to the guidelines established by the College Board and prepare students for the Advanced Placement exam in the spring. **Students taking an Advanced Placement course are required to take the Advanced Placement exam for the course. Students are expected to pay the fee in the fall for each exam they take. The fee for the 2018 exam was \$94 per exam. This is set by the College Board and subject to change.**

A prerequisite for Advanced Placement course enrollment will be an assessment of the student’s work in all prior Honors level courses. The Advanced Placement curriculum is rigorous and fast paced. Students are expected to complete extensive outside assignments.

Honors (HON):

Students enrolled in Honors courses are expected to have an excellent command of reading, writing, and research skills, and able to work independently whenever necessary. They should excel in memorization, comprehension and application of concepts. Critical thinking in the areas of analysis, evaluation and synthesis of ideas is required. **In order to continue enrollment in an Honors level course, students must maintain a “C” average in the prerequisite course.** Students who wish to move from CP to Honors must have maintained an “A” average in a prerequisite course and receive departmental approval.

College Prep (CP):

College preparatory courses are available in all disciplines. These courses are designed for students who learn fairly rapidly and have a good command of reading, writing, and research skills. Students are expected to have the ability to master problems dealing with memorization, comprehension of concepts and application of materials. Students will work toward the development of more in-depth critical thinking skills.

Running Start (RS):

Students enrolled in this program may earn concurrent high school and college credit with colleges ascribing to the Running Start program. Running Start classes are taught by Trinity faculty credentialed by the Running Start program as part of Trinity’s daily schedule.

Course Overload:

Students have the opportunity to take a seventh or eighth class provided that they demonstrate a thorough justification for the additional class(es). Students taking classes beyond the prescribed six, must demonstrate that they are capable of maintaining success while sacrificing one or both study halls. Students taking additional classes must remain in all classes that they enroll.

The Trinity High School Course Sequence

FRESHMAN (Required Courses) English - English 9	SOPHOMORE (Required Courses) English - American Literature	JUNIOR (Required Courses) English - American Literature, AP English Language and Composition	SENIOR (Required Courses) English - British Literature, AP English Literature and Composition
Math - Algebra I, Honors Geometry, Algebra II/Trigonometry Science – Introduction to Chemistry, Introduction to Natural Sciences Theology - Old Testament, New Testament World Language - French, Spanish, Latin Social Studies - American Gov't and Civics	Math - Honors Geometry, Geometry, Algebra II / Trigonometry, Honors Pre-Calculus Science - College Biology Theology - Ethics and Christian Virtues, Ethics and Moral Theology, Great Books World Language - French, Spanish, Latin	Math - Algebra II, Algebra II / Trigonometry, Honors Pre-Calculus, AP AB Calculus Social Studies - U.S. History, AP U.S. History Science – Advanced Chemistry, College Chemistry, Conceptual Chemistry, Conceptual Physics, Human Anatomy & Physiology Theology - Early Church History, Contemporary Church History	Math - Sr. Math Topics, Introduction to Advanced Mathematics, Honors Pre-Calculus, Statistics, Honors Statistics, Honors Calculus, AP Calculus AB, AP Calculus BC Theology - Catholic Social Teaching; Ecumenical and Interreligious Issues; Faith in Film; Sacred Languages; Pauline Epistles; Spirituality & Vocation; Prophets of Old Testament; Faith, Science and Reason; Patristics; Visual Theology; Western Mind
(Elective Courses) Physical Education Fine Arts - 2D/3D Design , Band, Chorus	(Elective Courses) Physical Education English - Public Speaking, Journalism, World Literature Fine Arts - 2D/3D Design, Applied Arts, Drawing & Painting, Advanced Drawing & Painting, Sculpture, Advanced Sculpture, Digital Arts, Advanced Digital Arts, Band, Chorus Science – Advanced Chemistry, Introduction to Robotics Social Studies – Economics, World History	(Elective Courses) Physical Education Computer Application - Introduction to Computer Programming, CAD English - Public Speaking, Journalism, World Literature Fine Arts – 2D/3D Design, Applied Arts, Drawing & Painting, Advanced Drawing & Painting, Sculpture, Advanced Sculpture, Digital Arts, Advanced Digital Arts, Art Honors, Band, Chorus Science – Honor Physics, Advanced Physics, Human Anatomy & Physiology, Robotics Social Studies – Economics, World Geography, Modern World History Theology - Catholic Social Teaching; Ecumenical and Interreligious Issues; Faith in Film; Sacred Languages; Pauline Epistles; Spirituality & Vocation; Prophets of Old Testament; Faith, Science and Reason; Patristics; Visual Theology	(Elective Courses) Physical Education Computer Applications - Computer Programming, CAD English - Public Speaking, Journalism, World Literature Fine Arts – 2D/3D Design, Applied Arts, Drawing & Painting, Advanced Drawing & Painting, Sculpture, Advanced Sculpture, Digital Arts, Advanced Digital Arts, Art Honors, Band, Chorus Science – College Chemistry, Conceptual Chemistry, Advanced Chemistry, Human Anatomy & Physiology, Conceptual Physics, College Physics, Honors Physics, Advanced Physics, Advanced Biology, Advanced Competitive Science, CAD Social Studies – Economics, Psychology, AP Psychology, Sociology, World Geography, Modern World History, AP US Gov't/Politics, AP US Gov't Comparative
		World Language – French, Spanish, Latin	World Language – French, Spanish, Latin

Computer Applications Statement of Purpose:

The objective of Computer Applications is to prepare students to work with business-level information technology as they complete their academic tasks.

Goals and Objectives:

The general goals and objectives of the Computer Applications curriculum are:

1. Students should develop a professional (though age-appropriate) level of competency with commonly used computer applications.
2. Students should learn to incorporate information technology into their planning and completion of school assignments.
3. Students should develop an investigative approach to computer applications so as to empower them to become lifelong learners in this area.

Courses:

351 Introduction to Robotics (HON)
(See Science)

352 Advanced Robotics (HON/RS)
(See Science)

336 Introduction to Computer Aided Design (HON)
Grade 11 & 12
1/2 Credit (spring)
Prerequisite: B or better in Alg. II Trig

Computer-aided design (CAD) is the use of technology in the design and drafting of a part or collection of parts. Projects will involve hand drafting in two dimensions (2D), and progress to learning the tools of the SolidWorks 3D modeling platform. Much of the semester will be spent drawing objects in three dimensions (3D). The course is project based using a number of tutorials that target a specific tool or process. The student is gradually lead through the most common drafting tools and practices and then assessed through a number of exercises which lack directions. During the second quarter, there are two large projects with multiple parts to be drawn and then put together into an assembly. Working drawings of each part in an assembly is required. The final exam is an assembly of parts and working drawings, which challenges the student both creatively and time-wise. Introduction to CAD exposes the student to modern drawing technology, along with valuable practical experience. This Honors level course is intended for students interested in a career in the engineering or other scientific fields.

337 Advanced CAD (HON/RS)
Grade 11 & 12
1/2 Credit
Prerequisite: B+ or better in Introduction to CAD and administrative approval

Advanced CAD is a semester long course in product design. Students will review the fundamentals of drafting in SolidWorks. Students will then explore more advanced solid modeling of curved surfaces using lofts, sweeps, and splines. Projects may involve the reverse

engineering of an everyday mechanical device or creation of entirely new product. The design process will progress from ideation and brainstorming to specifications and development of a 3D printed prototype. Students will document their research, sketches, design changes, plus peer feedback in an engineering notebook. The final product will involve an oral presentation, the engineering notebook, and a working 3D model of the final design.

701 Introduction to Computer Programming (HON)
Grade 11 & 12
1/2 Credit (spring)
Prerequisite: B or better in Alg. II Trig

The Introduction to Computer Programming course is a semester long investigation into the fundamentals of coding. Students will be using the very popular Python computer programming language through the Pythonista 3.0 iPad application. This course is intended to be a project based computational problem solving class and not a computer technology course. Students will work on a series of projects that lead them through the process of problem solving, coding, and debugging. The course introduces the fundamentals of programming such as variables, variable types, loops, functions, conditional statements, and assignments, arrays.

702 Advanced Computer Programming (HON/RS)
Grade 11 & 12
1/2 Credit (spring)
Prerequisite: B or better in Introduction to Computer programming

Advanced Computer Programming course is a semester long continuation of

computer programming and computational problem solving. Students will be using the very popular Python computer programming language through the Pythonista 3.0 iPad application. Like any coding course, Advanced CS will be a project based course in computational problem solving and will build upon what was learned in the Introduction to Computer Programming course. The problems addressed with involved increasingly more sophisticated solutions and programming techniques. Topics include arrays, nested conditionals, recursion and tuples.

English

Statement of Purpose:

The English Department focuses primarily on communication to prepare our students for the realities and challenges of society. To develop communication skills, our students must learn to read carefully, think critically, speak clearly, and write effectively.

Goals and Objectives:

The students will expand their vocabulary, apply grammar concepts, develop critical thinking skills, and experience the link between subject content and its application to societal issues through the study of literature.

Courses:

2206 English 9 (CP)

Grade 9

1 Credit

Prerequisite: None

This year-long course is designed to support students in developing their reading, writing, and thinking skills and to engage students in all areas such that they develop increasing desire, confidence, ability and fluency. Students will develop their skills and expertise in the building blocks of reading and writing: comprehension, critical thinking, vocabulary, grammar and mechanics, the research process, MLA format and citation style. Students will study various genres of literature and the elements of each by focusing on whole class texts before transitioning into independently chosen texts. Students should expect to write frequently, read daily, and also engage in both formal and informal class presentations

2207 English 9 (HON)

Grade 9

1 Credit

Prerequisite: None

This year-long course is designed to support students in developing their reading, writing, and thinking skills and to engage students in all areas such that they develop increasing desire, confidence, ability and fluency. Students will develop their skills and expertise in the building blocks of reading and writing: comprehension, critical thinking, vocabulary, grammar and mechanics, the research process, MLA format and citation style. Students will study various genres of literature and the elements of each by focusing on whole class texts before transitioning into independently chosen texts. Students should expect to write frequently, read daily, and also engage in both formal and informal class presentations. Students enrolled in the honors section should be avid readers, exhibit a command of written expression in the areas of fluency, form, and mechanics, and demonstrate depth of critical thinking.

2234/2218 American Literature (CP)

Grade 10 & 11

1 Credit

Prerequisite: English 10

This course surveys American literature from its beginning in the 17th century to present day. Primary focus will be on critical analysis of literature and include a rigorous program of reading (including fiction and nonfiction books), writing (including formal essays of analysis), and speaking (including presentations). The primary goal of this course is to develop students' critical thinking skills through class discussions, writing assignments, and projects.

2235/2219 American Literature (HON)

Grade 10 & 11

1 Credit

Prerequisite: English 10 (HON) for grade 11, A or above in English 9 for grade 10

This course surveys American literature from its beginning in the 17th century to present day. Primary focus will be on critical analysis of literature and include a rigorous program of reading (including fiction and nonfiction books), writing (including formal essays of analysis), and speaking (including presentations). Students enrolled in the honors section should be exceptionally motivated and consistently demonstrate the ability to achieve a high degree of academic success.

2233 AP English Language & Composition (AP)

Grade 11

Prerequisite: Invitation

Unlike a literature-based course, the AP English and Composition course will focus on writing and rhetoric and the tools and strategies writers employ to convey their messages to their particular audiences. Primary attention will be paid to nonfiction texts. Students will be expected to engage in close reading and analysis. In addition, students will be expected to compose and craft their own writing, with a focus on content, purpose, and audience. A writing- and reading-intensive course, this course is purposely designed to help students both master the content and successfully prepare for the AP English Language and Composition exam. Thus, this class requires a serious commitment by the student.

0227/2227 British Literature (CP)

Grade 12

1/2 Credit

Prerequisite: American Literature

This chronological study of English literature will concentrate on the various literary movements. Extensive reading, critical writing, and analytical discussions will center on a thematic approach. History, culture, the lives of the authors, and their influence on society will be emphasized. In addition to the literature, basic English skills will be reviewed, including fundamentals of grammar, composition, and vocabulary.

0228/2228 British Literature (HON)

Grade 12

1/2 Credit

Prerequisite: American Lit. (HON)

This course is for the highly motivated student who has the proven ability to write and read at the college level. This is a survey course which covers the Anglo-Saxon Period through the twentieth century with an emphasis on Shakespeare and the English novel. The course will feature seminar-style discussions, with an emphasis on student participation and direction, and independent study through enrichment activities. College level writing assignments will include response papers, essays of literary analysis, and research papers. Multimedia projects and documentaries will enhance the student's understanding of the history, culture and art of England.

232 AP English Literature and Composition (AP)

Grade 12

Prerequisite: Invitation

Because this course can provide college credit, students are expected to produce work of a very high caliber. They are required to do extensive reading and writing. Involvement in class discussion is crucial. Reading material is on a

college level and prepares students for the Advanced Placement Exam. Fundamental English skills are reviewed once again.

277/2277 Public Speaking (CP)*
Grades 10-12
1/2 Credit
Prerequisite: None

In today's increasingly visual and digital world, the art of effective communication is critical. Students in this course will develop both the confidence and skills to deliver both planned and extemporaneous speeches utilizing appropriate multimedia support. Students should expect to deliver a variety of speeches to audiences ranging from peers to faculty and even community members. While the course will be interactive and activity-based, students should note that they will be expected to craft written drafts in preparation of delivering their own speeches. Students will also be expected to research, read, listen to, and analyze speeches and presentations.

278/2278 Public Speaking (HON)*
Grades 10-12
1/2 Credit
Prerequisite: None

In today's increasingly visual and digital world, the art of effective communication is critical. Students in this course will develop the confidence and skills to deliver both planned and extemporaneous speeches utilizing appropriate multimedia support. Students should expect to deliver a variety of speeches to audiences ranging from peers to faculty and even community members. While the course will be interactive and activity-based, students should note that they will be expected to craft written drafts in preparation of delivering their own speeches. Students will also be expected to research, read, listen to, and analyze speeches and presentations.

Students enrolled in the honors course should be highly motivated and prepared

to work independently at an accelerated pace.

255/2255 Journalism: Non-Fiction Writing For Publication (CP)
Grades 10-12
½ credit
Prerequisite: None

This semester long, writing centered course is designed for students with an interest in crafting non-fiction work or aspirations of becoming published. Students will study the craft of the journalist through a variety of mediums beyond the traditional newspaper including magazines, journals, professional blogs, and other methods. The course will explore various elements of journalism as well as the effects of mass media on contemporary issues. Students will examine such topics as investigative skills, ethical and responsible reporting, and the process of publication. Students will not only generate original pieces of non-fiction, but also study and critique professional works.

256/2256 Journalism: Non-Fiction Writing For Publication (HON)
Grades 10-12
½ credit
Prerequisite: None

This semester long, writing centered course is designed for students with an interest in crafting non-fiction work or aspirations of becoming published. Students will study the craft of the journalist through a variety of mediums beyond the traditional newspaper including magazines, journals, professional blogs, and other methods. The course will explore various elements of journalism as well as the effects of mass media on contemporary issues. Students will examine such topics as investigative skills, ethical and

responsible reporting, and the process of publication. Students will not only generate original pieces of non-fiction, but also study and critique professional works.

Students enrolled in the honors course should be highly motivated and prepared to work independently at an accelerated pace. These students should be able to demonstrate a command of written expression as well as depth of critical thinking and analysis.

222/ 2222 World Literature (CP)
Grades 10-12
1/2 credit
Prerequisite: none

This course will focus on mythology, legends, folklore and wisdom/sacred literature from around the world in order to study how literature sheds light on the universal human experience. We will learn how culture influences thought and compare and use these ideas in our discussions and writing. Research and analysis will play a major role in this course as we develop an awareness of the roots of our global society and come to a better understanding of our fellow human beings.

223/2223 World Literature (HON)
Grades 10-12
1/2 credit
Prerequisite: none

This course will focus on mythology, legends, folklore and wisdom/sacred literature from around the world in order to study how literature sheds light on the universal human experience. We will learn how culture influences thought and compare and use these ideas in our discussions and writing. Research and analysis will play a major role in this course as we develop an awareness of the roots of our global society and come to a better understanding of our fellow human beings.

Fine Arts

Statement of Purpose:

As cultural arts allow us to identify the great variety of societies throughout civilization, it is important that students receive a strong foundation of the visual arts and music that document our history. Courses in a variety of art topics as well as chorus and band, nurture technical, creative and performance skills. These are the skills that students will need to appreciate and demonstrate active participation in the betterment of the human condition.

Goals and Objectives:

Through Chorus and Band, students will learn to appreciate music, understand music theory, and execute works by classic, contemporary and liturgical composers. Student Visual Artists will engage in the works of the art history masters, the contribution of The Church as patron and inspiration, and the unique works that can emerge through self-expression. All Fine Arts students will demonstrate a command of their areas of study through performances (Chorus, Band and Drama) and visual art shows throughout the year. Outside exhibits and competition opportunities are available for student participation.

Courses:
852 2D/3D Design (CP)
Grades 9-12
½ Credit
Prerequisite: None

In 2D/3D Design, students will strengthen their current knowledge of the Elements of Art and Principles of Design by producing artworks in a variety of media that are two-dimensional, three-dimensional, digital and 3D printed. In this introductory level course, students will also interpret and evaluate works - their own as well as those of recognized artists - and increase awareness of the very visual world around them, including advertising, architecture and art for art's sake.

Band and chorus carry pass/fail weight only and do not calculate into a student's GPA. Because of this 2D/3D Design does not calculate into a student's GPA.

**873 Drawing and Painting (CP)
Grades 10-12
½ Credit
Prerequisite: 2D/3D Design**

Student artists taking the Drawing and Painting course will explore, develop and practice their personal include perspective, the figure, landscape technical skills in traditional drawing media - graphite, charcoal, conte, colored pencils, soft pastels, pen and ink - and be introduced to the foundations of transparent watercolor and acrylic painting. Thematic prompts will be given and student input is encouraged as students examine established artists and prepare their own original works. Subjects, still life, illustration, impasto, chiaroscuro, silverpoint (Old Masters), sacred art and mixed media.

**878 Advanced Drawing and Painting (HON)
Grades 10-12
½ Credit
Prerequisite: Drawing and Painting**

Student artists will fine-tune their drawing and paintings with featured demonstrations and guest artists, working their way toward a college-entry portfolio. Students will develop a plan of action, choosing a theme or medium in which to work and by the end of the course, present a final collection of 12-15 artworks that include observational works as well as personal expression works current trends will support processes and production. Exploration of artists, art history and in a studio-based learning environment.

**853 3D/Sculpture (CP)
Grades 10-12
½ Credit
Prerequisite: 2D/3D Design**

Students will extend their knowledge of three-dimensional artworks with a concentration on process and demonstration of craftsmanship in final product. Research and multi-media presentations support technical skills as students create successful free-standing, bas relief, kinetic, carved, assemblage, molded and cast works. Written artist statements will reflect the student artist's intent as well as self-critique and analysis of work.

**854 Advanced 3D/Sculpture (HON)
Grades 10-12
½ Credit
Prerequisite: 3D/Sculpture**

Student artists will increase their level of expertise in both technical skills and understanding of 3D art and sculpture as art forms in this studio-based environment. Students will maximize the use of space, volume, mass, balance and light when producing works. Plans for a college-entry portfolio will include expressive works with a concentration in theme and medium. Craftsmanship will be emphasized and learning, installation art and viewer interaction supplemented with the concepts of mass production. Final portfolio and artist statements will include 12-15 artworks that reflect the artist's personal style as well as observational works.

**884 Digital Arts (CP)
Grades 10-12
½ Credit
Prerequisite: 2D/3D Design**

Digital Arts is a hands-on art/technology experience that provides instruction in digital drawing, digital photography and resource apps. Students will develop personal drawing skills with toolbox and color utilities while demonstrating a strong foundation knowledge of the Elements of Art and Principles of Design as they relate to current marketing and

web practices. Visual communication is key as students learn and practice the techniques that create compelling portrait, close-up, documentary and action photos. iPads are required for this course; digital cameras are recommended but optional.

**885 Advanced Digital Arts (HON)
Grades 10-12
½ Credit
Prerequisite: Digital Arts**

In a studio-based environment, student artists will build a college-entry portfolio of 12-15 digital art drawings and photographs that reflect strong visual communication skills with a personal view. Application to graphic design, web design, publishing, commercial and environmental photography, and photojournalism will be explored. Student works will exhibit high quality in craftsmanship and presentation.

**887/8887 Applied Arts (CP)
Grades 10 – 12
½ Credit
Prerequisite: 2D/3D Design**

Applied Arts in the Trinity Makerspace brings the reality of arts, science, and computer software integration to “students who build.” Projects include printmaking, textiles, metalworking, 3D printing and laser cutting/engraving. Topics include steampunk, environmental art, wearables, toys and print production through screen printing, block cuts and etching.

**876 Art Honors (HON)
Grades 11 – 12
½ Credit
Prerequisite: Dept. Approval**

The Art Honors Program at Trinity High School is designed to prepare selected students for college-level art work. This course also offers students the opportunity to become self-motivated and independent; qualities essential for college-bound students. Selected students will be expected to set up a course of

study based on their interest, as well as develop and organize a well-rounded portfolio.

**886 Art Honors - Special Topics (HON)
Grade 12
1/2 Credit
Prerequisite: Art Honors & Dept Approval**

This Special Topics course accommodates seniors who are focusing on a specific medium or topical interest (ceramics, watercolor, oils, set design, exhibits). This would be on a contractual basis, where the students have free use of the art studio with weekly checkins, research and written work as well as peer critiques and analyses.

**821 School Chorus (CP)
Grades 9 – 12
1/2 Credit – Pass/Fail Only
Prerequisites: None
Although this is a ½ credit course it meets for the entire year.**

Interested students need only have interest in music vocalization and the ability to maintain vocal pitch. This course will introduce students to basic skill in vocalization, vocal techniques, and breathing techniques. Students will also learn techniques in volume control, vocal blending, unison singing, as well as vocal harmonization. Music style will focus on liturgical music as one of the charges of the Chorus is to provide music for school worship services, but some secular music will be included as time permits. Re-enrollment from year to year will require approval from the Choral Directors. **Participation in the open house, Christmas concert, spring concert, and Baccalaureate is mandatory.**

The school chorus is a 7th course of instruction and can be used to satisfy the fine arts requirement. This course is not calculated into the GPA.

830 Band (CP)

Grades 9 – 12

1 Credit

Prerequisite: At least one year of study on instrument or teacher approval

Band is open to all students who play any instrument except violin, viola and cello. Instruction will emphasize rhythmic reading, music theory and phrasing. Assessment will be based on a student's effort at rehearsals and a quarterly performance review. Students are required to perform in several concerts during the year and several Pep band performances during basketball season.

Band is a 7th course of instruction and can be used to satisfy the fine arts requirement. This course is not calculated into the GPA.

836/8836 Orchestra (CP)

Grades 9 – 12

1 Credit

Prerequisite: At least one year of study on instrument or teacher approval

Concert Band/Orchestra is open to all students who play instruments including strings. The band will be performing a variety of genres of music that fit with the instrumentation and size of the ensemble. Assessment will be based on preparation for rehearsals and participation in ensemble performances. Students are required to perform in all concerts during the school year even if they are outside of normal school hours.

Orchestra is a 7th course of instruction and can be used to satisfy the fine arts requirement. This course is not calculated into the GPA.

Mathematics

Statement of Purpose:

Mathematics is the language of science, technology, and business. In order to contribute to the real world, all students must be fluent in this language. The Mathematics Department strives to develop basic mathematical proficiency in all students, reaching beyond mere computational ability to strengthen problem solving and critical thinking skills.

Goals and Objectives:

The general objectives of the mathematics department are:

1. To develop competency in basic mathematical skills.
2. To enable students to utilize their basic skills in problem solving.
3. To develop an awareness in students to distinguish between relevant and irrelevant data.
4. To encourage logical, critical and analytical thinking with a strong sense of intellectual curiosity.
5. To demonstrate the applications of mathematical techniques to the solution of real-life problems and to recognize how and when to apply those techniques.

Courses:

4402 Algebra I (CP)

Grade 9

1 Credit

Prerequisite: None

This course is designed to introduce the student to the concepts of algebra. Topics include: the real number system; the addition, subtraction, multiplication and division of variable expressions, including fractions; exponential notation; linear and quadratic equation solving; graphing linear equations; factoring; solving linear inequalities; solving two-variable systems of equations and inequalities; an introduction to functions and relations;

and the development of problem solving skills and real-world applications. Throughout this course, the correct solution process is considered as important as the correct solution.

4403 Algebra I (HON)

Grade 9

1 Credit

Prerequisite: Dept. Approval

In this course, students will learn the properties of the real number system and apply the processes of addition, subtraction, multiplication and division to variables, polynomials, rational expressions and radical numbers. Linear and quadratic equations and inequalities will be solved using a variety of techniques including factoring and the quadratic formula. Students will construct algebraic proofs. Critical thinking and the application of mathematics to real world situations will be emphasized. Throughout this course, the solution process is considered as important as the correct solution.

4410 Geometry (CP)

Grade 10 – 11

1 Credit

Prerequisite: Algebra I

This course is designed to give the student an introduction to the vocabulary, postulates and theorems of Euclidean geometry. The topics will include: lines, angles, polygons, circles, solids, and inductive and deductive reasoning. This course will introduce the student to the concept of proof.

4411 Honors Geometry (HON)

Grade 9 – 10

1 Credit

Prerequisite: Algebra I (HON) or Dept. Approval

This course is designed to give the student an in-depth introduction to the vocabulary, postulates and theorems of Euclidean geometry. The topics will include: lines,

angles, polygons, circles, solids, geometric probability, coordinate geometry, and right triangle trigonometry. In addition to stressing inductive and deductive reasoning, emphasis will be placed on the concept of proof. Students desiring to “double up” Honors Geometry and Algebra II/Trigonometry need to have a year average of “A” in Algebra I Honors and receive departmental approval.

4420 Algebra II (CP)

Grade 11 – 12

1 Credit

Prerequisite: Geometry

This course introduces the student to a systematic study of numbers, from natural through radical and complex, and their operations. Topics include: matrices; linear and quadratic equations and inequalities; systems of equations and inequalities; and polynomial functions and their graphs.

4421 Algebra II/Trigonometry (HON)

Grade 9 – 11

1 Credit

Prerequisite: Honors Geometry or Dept. Approval

This course is designed to introduce the student to a systematic study of sets from natural numbers through complex numbers. Topics to be studied include: analytic geometry, radicals, conics, relations, and polynomial functions including exponential, logarithmic and trigonometric functions as well as real world applications of these concepts. Linear, quadratic, polynomial, rational, radical, exponential, logarithmic, and trigonometric equations and inequalities will be solved using a variety of techniques. Students desiring to “double up” Honors Geometry and Algebra II/Trigonometry need to have a year average of “A” in Algebra I Honors and receive departmental approval.

423 Honors Pre-Calculus (HON)
Grades 10 – 12
1 Credit
Prerequisite: Algebra II/Trig (HON)

This course is designed to introduce the student to advanced topics in algebra and trigonometry. Topics studied will include: matrices; vectors; solving triangles; polynomials; exponential, logarithmic and trigonometric functions; trigonometric graphs, equations and identities; probability, statistics, and data analysis; sequences and series; polar coordinates; the fundamental theories of algebra; and an introduction to calculus. Real world applications of these concepts will be emphasized.

425 Senior Math Topics (CP)
Grade 12
1 Credit
Prerequisite: Dept. Approval

This course is designed to review the concepts of algebra and geometry that will be needed for the SAT. This course will also introduce the student to advanced topics in algebra as well as real world math concepts encountered in personal finances.

430 Introduction to Advanced Mathematics (CP)
Grade 12
1 Credit
Prerequisite: C+ or better in Algebra II

This course is designed for students who desire to further their studies in mathematics. Topics to be taught include: statistics, data analysis, trigonometry, exponential and logarithmic functions; polynomial functions; and linear and quadratic modeling. Real world applications of these concepts will be emphasized.

438 Honors Calculus (HON)
Grade 12
1 Credit
Prerequisite: Honors Pre-Calculus

This course is designed to introduce the student to basic concepts of differential and integral calculus. One will learn to differentiate and integrate various functions including polynomial, trigonometric, logarithmic, and exponential functions. With extensive independent study, a student could take the Advanced Placement Exam in May.

445 AP Calculus AB (AP)
Grades 11 - 12
1 Credit
Prerequisite: Invitation

This course is designed to prepare the student for the Advanced Placement test given in May. The student will learn to use analytical, graphical and numeric methods to analyze various functions including polynomial, trigonometric, logarithmic, and exponential functions. These methods will incorporate the use of differentiation and integration - central topics of AB Calculus.

446 AP Calculus BC (AP)
Grade 12
1 Credit
Prerequisite: Invitation

Calculus BC is an extension of Calculus AB rather than an enhancement. In addition to the topics reviewed from Calculus AB, students will be introduced to series and sequences and parametric functions. The course will culminate with the students taking the AP Calculus BC exam in May. Students taking the AP Calculus BC exam will receive an AB Calculus subscore in addition to a BC Calculus score.

442 Honors Statistics (HON/RS)
Grade 12
1 Credit
Prerequisite: Algebra II/Trig

In Honors Statistics four major themes will be explored – exploratory analysis, planning a study, probability, and statistical inference. Exploratory analysis of data uses graphical and numerical techniques to study patterns and departures from patterns. Data must be collected according to a well-developed plan for information to be valid. Probability is the tool used for anticipating what the distribution of data will look like under a given model. Statistical inference guides the selection of appropriate models.

Because this course is designed to prepare students to have the option of taking the Advanced Placement Statistics Exam in May, it is a very rigorous math class. This class emphasizes analysis as much as computation, therefore a calculator capable of statistical analysis is mandatory. Calculator application relies upon the TI – 83 or the TI – 84.

Students who anticipate studying calculus should not take this course in lieu of Honors Pre-Calculus or Introduction to Advanced Math.

444 Statistics (CP)
Grade 12
1 Credit
Prerequisite: C+ or better in Algebra II

Statistics will cover the same topics as Honors Statistics but students will not be assessed in the rigorous standards of the Honors Statistics course. Although computational skills are important to succeed in the study of statistics the emphasis in this course will be the analysis of the information. **Students who anticipate studying calculus should not take this course in lieu of Honors Analysis or Introduction to Advanced Math.**

Physical Education

Statement of Purpose:

Physical education is designed to provide students with a well-rounded perspective of the total physical, mental, and social development of the individual. The program is designed to promote a healthy lifestyle, growth, physical fitness, and to help contribute to social and personal values.

Goals and Objectives:

The general goals and objectives of the physical education department are:

1. To promote proper health and fitness through physical activity.
2. To gain basic knowledge and understanding of rules and strategies of various sports, games and activities.
3. To realize the importance of developing sportsmanship, teamwork, self-esteem and self-confidence.

Courses:

900 Physical Education (CP)
Grades 9 – 12
1/2 Credit – Pass/Fail Only
Prerequisite: None

The goal of this course is the development of mind and body through teaching a basic health and physical education curriculum. The students will acquire the knowledge, skills, and attitudes which will benefit them throughout life. They will learn to become more aware of their own health capabilities as well as those of their peers, and learn the rules and strategies of various games and activities. Attitudes to be learned include: an appreciation of cooperation, sportsmanship, fair play; competitiveness and its place in human social behavior; physical fitness and good health habits that affect the students' personal and social lives; and the effects of physical training and practice on performance. Grading will be based on homework, quizzes, and effort and participation. Students are required to dress in proper attire for class which

includes T-shirts or sweatshirts, shorts or sweatpants, socks, and sneakers. Examples of some sports and activities that will be covered are: flag football, soccer, weight training and conditioning, basketball, volleyball, softball, ultimate frisbee and various racquet sports.

Physical Education requirement may be fulfilled by participation in two seasons of interscholastic competition. Physical Education must be taken as a 7th course. This course is not calculated into the GPA.

Science

Statement of Purpose:

The purpose of the Science Department is to combine specific skills characteristic of science with an understanding of the relationship of science and technology to other aspects of human activity. Science is presented as a dynamic process of inquiry rather than a static accumulation of facts, thus becoming a valuable aid toward developing solutions to complex problems.

Goals and Objectives:

In presenting its curriculum, the science department strives to achieve the following goals:

1. To develop the capability to reason analytically and quantitatively.
2. To instruct students in the mode of inquiry ofscience: a cycle of hypothesis, prediction, and experimental tests.
3. To acquaint students with the fascinating study of the natural world.
4. To help the students discover their own interests and potentials and thereby promote a more positive self-concept.
5. To provide students with a background to help make informed decisions as responsible citizens in a technical world.

Courses:

3302 Introduction to Natural Sciences (INS) (CP)

Grade 9

1 Credit

Prerequisite: None

This course will be primarily lab based exploration of the natural world from a chemical perspective. It will focus on students developing skills in such areas as: data gathering, measurements, graph interpretation, and analysis. Students will be introduced to lab reporting procedures with special emphasis on critical thinking

skills. Basic math skills will be required at this level for data analysis, using the metric system, and basic conceptual scientific theories. The course will lead students through the discovery of physical models, the details of the atom, chemical bonding, compounds, molecules, and eventually ending with an introduction to biochemical molecules. The introduction to biochemistry will provide a valuable head start towards sophomore Biology and further science courses.

3303 Introduction to Chemistry (HON)

Grade 9

1 Credit

Prerequisite: Dept. Approval

This course is designed to introduce students to the foundation topics in college chemistry and will serve as a preparatory course for more advanced topics in Advanced Chemistry. At this level students should exhibit a high level of proficiency in math skills and in reading, verbal and composition skills. The course will emphasize the use of critical thinking skills and will utilize lab experiences to reinforce both the course content and the use independent reasoning skills. The course will conclude with an extensive biochemistry unit to prepare students for the ensuing course in honors biology.

3311 College Biology (CP)

Grade 10

1 Credit

Prerequisite: INS

This course will introduce students to the scientific study of living things. Students will be challenged to develop critical thinking skills, and will apply those skills to various life processes. The first semester will focus on scientific method, basic biochemistry, cell biology and cell division. The second semester will be devoted to the study of genetics, including DNA, human anatomy and physiology. Evolution will be discussed as well.

3312 College Biology (HON)

Grade 10

1 Credit

Prerequisite: Introduction to Chemistry

This course will introduce students to the scientific study of living systems. Students will be challenged to develop and practice critical thinking skills as they apply to biological topics. First semester topics will emphasize biological evolution, scientific inquiry, biochemistry, and molecular and cellular biology. Second semester topics will include human anatomy and physiology, embryology, some plant biology, genetics and population genetics.

3324 Conceptual Chemistry (CP)

Grades 11&12

1 Credit

Prerequisite: College Biology - offered 2019/20

This course is designed to make chemistry accessible to students and prepare them for higher level chemistry. Conceptual Chemistry awakens the curiosity and enthusiasm for learning in students by providing a more hands on and applied approach to conceptual chemistry ideas. By doing exciting experiments, students can relate to chemistry in their daily lives. Conceptual Chemistry makes chemistry engaging and challenging and builds skills for any introductory college level science course.

3320 College Chemistry (CP)

Grades 11 – 12

1 Credit

Prerequisite: College Biology and C+ or better in Alg. I

This elementary chemistry course will be predominantly lab-based covering a breadth of topics from the scientific method to the composition, structure, and properties of matter and the changes matter undergoes during chemical reactions. Although this course is largely conceptual, some basic mathematical

principles will be explored, necessitating strong but basic math skills. This course is designed for students who are interested in the sciences and desire an exposure to chemistry and its relevance to science.

3322 Advanced Chemistry (HON)
Grades 10 – 12
1 Credit
Prerequisite: Introduction to Chemistry and Honors Geometry

This course will involve a detailed introduction to the principles of chemistry including scientific measurement, physical & chemical properties of matter, chemical bonding, writing of formulas, naming of compounds, chemical reactions, atomic structure and quantum theory. The application of mathematics to theory and laboratory experimentation is emphasized. This class is designed for students who plan to take chemistry or related science courses in college.

329 Human Anatomy and Physiology (HON)
Grades 11 – 12
1 Credit
Prerequisite: College Biology (HON/RS)

Like the CP course in Anatomy and Physiology, the honors course will build on the foundation of human biology established in the second semester of the student's introductory course in College Biology. A main difference at this level is its faster pace and its more in-depth consideration of topics covered, especially in the areas of histology, immunology, and endocrinology.

The student will be expected to apply higher levels of critical reasoning to the classroom discussions and to testing tools. More extensive consideration will be given to diseases and organ system dysfunction. Emphasis is placed on preparing students for careers in nursing, medicine, and other health-related science careers.

Students anticipating taking Advanced Biology and the AP Biology Exam are strongly encouraged to complete Human Anatomy and Physiology their junior year.

331 Human Anatomy and Physiology (CP)
Grades 11&12
1 Credit
Prerequisite: College Biology

This course builds upon concepts covered in introductory College Biology and narrows in focus to specifically the human body. Intended for students interested in learning about anatomical terminology, body tissues and basic systems, this course will explore anatomy, physiology and the related health consequences of disease. Through class discussion as well as various activities and laboratories, students will develop proficiency in inquiry, observation, and analysis.

339 Conceptual Physics (CP)
Grade 11&12
1 Credit
Prerequisite: Alg.I - offered 2018/19

This course is designed to make physics more accessible to students and prepare them for higher level physics. Conceptual Physics awakens the curiosity and enthusiasm for learning in students by providing a more hands on and applied approach to conceptual physics ideas. By doing exciting experiments, students can relate to physics in their everyday lives. Conceptual Physics makes physics engaging and challenging and builds skills for any introductory college level science course will cover the conceptual material typically taught in a full year college physics class, with simple algebraic formulas.

340 College Physics (CP)
Grade 12
1 Credit
Prerequisite: C+ or above in Alg. II

This course is designed for the average student interested in exploring everyday phenomena from the sub-fields of mechanics and electromagnetism. Mechanics deals with the study of motion and the influence of force on motion. In particular, a detailed study of Newton's Laws will be undertaken. Electromagnetism is one of the fundamental forces of nature. The nature of the electron and electricity will be investigated first, and gradually evolve into magnetism. An emphasis will be placed on problem solving and the use of formulas associated with physics. Ultimately, the student will gain a greater appreciation of the world around them and will look at everyday phenomena as extraordinary

341 Honors Physics (HON)
Grades 11 - 12
1 Credit
Prerequisite: Alg. II/Trig

This course is for the accelerated student seeking an understanding of how the world works. Honors Physics is a lab based exploration of everyday phenomena using the fundamentals of Classical Mechanics and Electromagnetism. Mechanics deals with the study of motion and the influence of forces on motion. A detailed study of Newton's Laws, momentum, and energy will be undertaken. This will consume the bulk of the school year. Electricity will be gradually introduced, beginning with the nature of the electron. Batteries and Circuits will be covered in a hands on fashion. The school year will end with a study of magnetism and electromagnetic induction. Students will hopefully understand electrical power generation and transmission. The goal of Honors Physics is to dismantle the natural world into abstract concepts in order to understand how things work. There will

be a strong emphasis on problem solving and the mathematics associated with deriving formulas and applying the principles of physics. This course is designed for the student who is not considering a degree in science, medicine, or engineering, but plans to major in the liberal arts, humanities, or business.

335 Advanced Physics (HON)
Grades 11 – 12
1 Credit
Prerequisite: Alg. II/Trig

Advanced Physics is an accelerated course designed for the student planning a career in science, medicine, or engineering. Advanced Physics is a lab-based investigation into Newtonian Mechanics and Electromagnetism. Mechanics is the study of motion and the influence of force on motion. Application of Newton's Laws, Work-Energy, and Momentum to both linear and circular motion is undertaken. During the 2nd semester, electricity and magnetism are investigated. Students will probe the nature of electricity initially, and arrive at the linkage between electricity and magnetism near the end of the school year. Basic circuits, electrical power generation, and transmission are some of the topics covered. The goal of Advanced Physics is to understand two major branches of physics in a depth of detail that leaves the student well prepared for future coursework in science. There is a strong emphasis on problem solving, coupled with rigorous derivation of formulas using physics principles. The mathematics will be challenging and requires serious effort on the part of the student.

342/343 Advanced Biology (HON/ AP)
Grade 12
1 Credit
Prerequisite: College Biology (HON)

Advanced Biology will continue to build upon the foundation established in College Biology (and Anatomy and Physiology), whose concepts will be

expanded upon and further developed. This course will also investigate topics not previously encountered such as: cell to cell communication, eukaryotic gene expression, DNA technologies, medical and research technologies, plant biology, and ecology topics to name a few. This course is recommended for students considering careers in the sciences or who have a strong interest in the subject. **Students interested in receiving AP weighting must sign up for the AP Biology exam in the fall and take the exam in the spring.**

**3351 Introduction to Robotics (HON)
Grades 10&11
1/2 Credit (fall)
Prerequisite: B or better science**

Introduction to Robotics is a semester long, honors level science course in robotics. The course is a brief investigation of mechanical engineering and computer programming. It is designed for the student who is seriously interested in pursuing engineering or technology as a career. Introduction to Robotics is a project-based, hands-on curriculum built around the Vex Robotics EDR kit and the RobotC programming platform for the operating code. Students will build and program an autonomous robot. It will operate through a number of projects which become progressively more sophisticated. Projects begin with building a simple remote control drive base, then moving on to autonomous operations and other challenges. Projects range from driving in a straight path 4 ft. to driving about a square to adding a robotic arm to order to pick up and transport an object. The projects are done in cooperation with the instructor and students must adhere to strict deadlines for each project milestone.

Introduction to Robotics cannot be used to satisfy a science requirement and is recommended to be taken as a 7th course of instruction.

**352 Advanced Robotics (HON/RS)
Grades 11 – 12
1/2 Credit (fall)
Prerequisite: B or better in Introduction to Robotics**

Advanced Robotics is a semester long, honors level science course in robotics. The course will also be offered as a Running Start course. The curriculum is designed for the student who is serious about pursuing engineering or engineering technology as a career. Advanced Robotics is a project based, hands-on pre-engineering course built around robotics, mechanical engineering, and computer programming. Students will work on projects using the Vex Robotics EDR kit and the RobotC programming platform. The course will cover the entire design processes including definition of the problem, research and ideation, creation and testing of mechanisms, building a robot prototype, programming and testing the prototype. Students will be required to keep an engineering notebook which will be evaluated periodically. The final product will be a robot based on design specifications outlined in the current Vex Robotics Competition game rules. The ultimate goal is to have robots compete in an official Vex competition. The project is done in cooperation with the instructor and students must adhere to strict deadlines for each milestone.

Advanced Robotics cannot be used to satisfy a science requirement

**Social Studies
Statement of Purpose:**

The basic purpose of the Social Studies Program is to have students develop the knowledge, understanding and skills necessary to become informed and caring citizens.

Goals and Objectives:

1. To provide the historical foundation essential for an understanding of the political, social, cultural and economic forces shaping modern society.
2. To develop basic study skills, critical thinking, oral and written communication and research methodology.
3. To promote an appreciation of the worth and dignity of all individuals and encourage an active concern for their welfare.
4. To prepare the students to act rationally and responsibly as citizens in a democratic society.

**Courses:
6628/6629 American Government and Civics (CP/HON)
Grade 9
1/2 Credit
Prerequisite: None**

Over the course of the semester students will examine the structures, purpose, process and functions of government; through history and today, in the United States, New Hampshire, and the world. The main focuses of this course are the 3 Branches of the U.S. Government, the U.S. Constitution, local & state laws, individual rights & responsibilities of citizens; and the government's interactions with society, the economy, the environment and the American psyche. The expectations of this course will be above and beyond that of a normal course. Students of this class will be expected to produce excellence on all forms of assessment which will range from

quizzes, tests, small papers; to worksheets and group work.

**6601 World History (CP)
Grade 10
1 Credit
Prerequisite: None**

This course will provide a framework of history for students from the beginnings of humanity to modern time. First semester will start at the Prehistoric Era and ends with the Renaissance. The second semester will begin with the Renaissance and end with the 20th century. Emphasis will be placed on the fundamentals of political, economic, cultural and intellectual developments. The use and development of reading and writing skills will be emphasized.

**6602 World History (HON)
Grade 10
1 Credit
Prerequisite: Civics (HON)**

This course will provide an analytical study of the history of humanity from its beginnings to World War II. During the first semester students will be given a comprehensive view of the development of ancient and medieval civilizations. Second semester will concentrate on the time period from the Renaissance to the 20th century. Throughout the year, students will be required to demonstrate a working knowledge of the material through the writing of critical essays. Focus will also be placed on utilizing and analyzing primary sources as a means of critically evaluating the history of the time period studied.

**603 World Geography (CP)
Grades 11 - 12
1/2 Credit
Prerequisite: None**

World Geography is a systematic study of the environment and human societies including landform development, climate,

ecology, culture, politics, history, and state relations. The course will explore the importance of these relationships and the ways in which they are interconnected.

633 Modern World History (HON)
Grades 11 - 12
½ Credit
Prerequisite: Honors Social Studies

This course focuses on how humans interact with one another and the environment around them in the current day. Classes will consist of analysis of events happening right now in t will be covered included: human-environment interaction, the different cultures of the world today and how they interact with the United States; and geo-political relations at-large. Students of this class will be expected to produce excellence on all forms of assessment which will range from quizzes, tests, small papers; to worksheets and group work. he United States and around the world.

6610 US History (CP)
Grade 11
1 Credit
Prerequisite: None

Students begin their study with an overview of colonial developments that gave rise to the United States Constitution. The course proceeds with the considerations of westward expansion and the economic, social and political differences that resulted in the Civil War and Reconstruction.

The course continues with the triumphant development of U.S. industry and urbanization between 1865 and 1914. We will explore America's involvement in World War I, the post war prosperity and economic collapse leading into the New Deal and world events resulting in World War II. The course will conclude with the development of the Cold War and turmoil in the Middle East serving as an in-depth perspective as to how economic, political, social and religious conflicts have developed into issues that dominate world affairs today. Reading, writing and the

awareness of the relationship between events and ideologies are the major goals of the course.

6611 US History (HON)
Grade 11
1 Credit
Prerequisite: World History (HON)

Students begin their study with an overview of colonial developments that gave rise to the United States Constitution. The course proceeds with the considerations of westward expansion and the economic, social and political differences that resulted in the Civil War and Reconstruction.

The course continues with the triumphant development of U.S. industry and urbanization between 1865 and 1914. We will explore America's involvement in World War I, the post war prosperity and economic collapse leading into the New Deal and world events resulting in World War II. The course will conclude with the development of the Cold War and turmoil in the Middle East serving as an in-depth perspective as to how economic, political, social and religious conflicts have developed into issues that dominate world affairs today. The development of analytical skills demonstrated through oral and written work, as well as use of primary source documents, will be a major goal within the context of history and current events.

6615 AP US History (AP)
Grade 11
1 Credit
Prerequisite: Invitation

In accord with the requirements of the College Board, this intensive full year class will provide students with a comprehensive overview of United States history (up until 1980) with a major focus on analyzing and interpreting that history. In addition to extensive reading, daily Document Based Questions, and other class work, students will complete weekly analytical papers and bi-weekly tests in preparation for the demanding AP US

History exam. The pace and structure of this course is purposely designed to help students both master the content and successfully prepare for that exam. Thus, this class requires a serious commitment by the student.

620 Psychology (CP)
Grade 12
1/2 Credit
Prerequisites: None

This course will introduce students to the foundation principles of psychology. Students will develop an understanding of many of the theories and theorists that are credited with creating and changing how we look at human behavior and thought. Students will gain a greater understanding for their own capacity for growth. Topics explored will include the mind-body connection, behavior and change, consciousness, human development, addiction, and mental illness. Students will develop an understanding of how good mental health, resiliency and empathy are developed. Students will further develop their reading, writing and discussion skills.

622 Psychology (HON)
Grade 12
1 Credit
Prerequisite: None

Students will experience an in-depth and fast-paced coverage of the foundation topics in psychology. Students will examine the effects of physiology, perception, states of consciousness, learning, memory, and cognitive abilities on human behavior. Students will analyze human development, emotions and stress, personality theories and abnormal behavior. Students will have the opportunity to take the Advanced Placement Exam in May.

623 AP Psychology (AP)
Grade 12
1 Credit
Prerequisite: Invitation

Students will examine the effects of physiology, perception, states of consciousness, learning, memory, and cognitive abilities on human behavior. Students will analyze human development, emotions and stress, personality theories and abnormal behavior

630 Sociology (CP)
Grade 12
½ Credit
Prerequisite: None

This course focuses on the study of the people within their social context. Students will become aware of the socialization process and how it relates to the culture, in general, and American culture in particular. Students will understand the elements of social stratification and how it impacts individuals and society as a whole. Students will begin to recognize the relationship between private problems and public issues. Students will be building their skills in: reading, writing, discussion, and statistical analysis.

650/651 Economics (CP/HON)
Grades 10 – 12
1/2 Credit
Prerequisite: None

This course will examine the fundamental concepts of economics and philosophies through the study of Adam Smith, Karl Marx and John Maynard Keynes. An overview of micro- and macroeconomics will develop an understanding of larger economic theory. Units will focus on taxes, retirement, loans and credit, banking, checking and savings, employment and insurance as well as law of scarcity, price determination, inflation and monopoly. This course requires the student to actively participate in class

discussions and will culminate with the student developing a personal finance plan.

624 AP US Gov't and Politics (AP)

Grade 12

1/2 Credit

Prerequisite: Invitation

In accord with the requirements of the College Board, this **one semester** class will provide students with an overview of the facts, concepts, and theories of American government. Throughout the year, students will engage in six main topics: the Constitutional structure of the government; political beliefs and behaviors; political parties, interest groups, and mass media; government institutions; public policy; and civil rights and civil liberties. This class requires a serious commitment by the student.

625 AP Comparative Gov't and Politics (AP)

Grade 12

1/2 Credit

Prerequisites: Invitation

In accord with the requirements of the College Board, this one semester class will provide students with an overview of major comparative political concepts, themes, and generalizations. Throughout the year, students will engage in six main topics: Introduction to Comparative Politics; Sovereignty, Authority, and Power; Political Institutions; Citizens, Society, and the State; Political and Economic Change; and Public Policy. Six countries form the core of the course: China, Great Britain, Iran, Mexico, Nigeria, and Russia. This class requires a serious commitment by the student.

Theology

Statement of Purpose:

The general purpose of the Theology program is to educate students in the Catholic Faith based on the foundation of the Hebrew and Christian Scriptures, Christian history and the doctrinal development of the Catholic Church. Students will be challenged to live out Gospel values spiritually, morally, justly, ethically, and joyfully.

Goals and Objectives:

The general goals and objectives of the Theology Department are:

1. To witness God's Salvation throughout Old and New Testament Scripture.
2. To observe the development of Christ's salvific mission throughout History.
3. To develop an understanding of Liturgical significance of the Mass and the Seven Sacraments of the Church while focusing on the Eucharist as the Source and Summit of our Christian Life (Lumen Gentium, no 11; cf. CCC, 1324).
4. To develop a moral character that encourages students to not only know what is good, but to act accordingly.
5. To foster ecumenical and interfaith understanding, dialogue and tolerance.
6. To instill a passion for solidarity, peace, liberty and justice.

Courses:

1151/1152 Old Testament (CP/

HON)

Grade 9

1/2 Credit

Prerequisite: None

The purpose of this course is to introduce students to God's Revelation and God's plan to save humanity from the consequences of sin as recorded in the Old Testament. Students will study the Pentateuch, Historical Books, Wisdom Literature, and the Prophets to better

comprehend the fulfillment of the Messianic prophecies in Jesus Christ. Students are required to read substantive Bible passages to understand the Biblical authors' message and find ways in which to apply God's work in their lives.

1153/1154 New Testament (CP/

HON)

Grade 9

1/2 Credit

Prerequisite: None

The purpose of this course is to introduce students to the mystery of Jesus Christ, the living Word of God, the Second Person of the Blessed Trinity. In this course, students will be invited into relationship with Jesus Christ as the fullness of God's Divine Revelation. In learning about Who He is, students will also learn who He calls them to be.

1155 Ethics and Christian Virtues

(CP)

Grade 10

1 Credit

Prerequisite: Grade 9 Theology

This course will introduce students to the basics of logic and philosophy. It will provide them with a philosophical foundation of ethics. The students will then learn to apply this to Christian living as articulated through the theological and cardinal virtues.

1156 Ethics and Moral Theology

(HON)

Grade 10

1 Credit

Prerequisite: Honors Grade 9

Theology

This course will introduce students to the basics of logic and philosophy. It will provide them with a philosophical foundation of ethics. The students will then apply the philosophical understanding gained to the construction

of Christian Moral Theology, in particular the writings of Saint Thomas Aquinas, Saint Alphonsus Liguori, and Pope Saint John Paul II.

1130 Great Books (HON)

Grade 10

1 Credit

Prerequisite: Invitation

Following in the footsteps of Cardinal Daneels, who employed Great Books in teaching Sacramental theology and inculcating an appreciation for the virtues in his students, this course explores our understanding of God and humanity by reading classic works of literature in conjunction with a close study of the Holy Bible, Patristic writings, and Church documents. Great Books' previous selections have included Homer's *Iliad*, Vergil's *Aeneid*, Austen's *Pride and Prejudice*, Dante's *Divine Comedy* and Shakespeare's *Hamlet*.

1157/1158 Early Church History:

Acts of the Apostles to Middle Ages

(CP/HON)*

Grade 11

1/2 Credit

Prerequisite: Theology 10 (Honors for Honors)

This course will explore the first 1500 years of Ecclesiastical history. We will begin with the Apostolic Community, witness the Christianization of the Roman Empire, the Fall of Rome in the Dark Ages, the Middle Ages, Early Christian martyrdom, Monasticism and the rise of Christendom.

1159/1160 Contemporary Church History: Reformation to Present (CP/HON)*
1/2 Credit
Prerequisite: Theology 10 (Honors for Honors)

This course will explore the Protestant Reformation, the Catholic Counter-Reformation, the Enlightenment, the Industrial Revolution, and Contemporary Society. During this course, students will study both Church Councils and Papal Encyclicals. Illustrious figures such as Saint Ignatius of Loyola, Saint Teresa of Avila, Pope Saint Pius X, Pope Saint John XXIII, and Pope Saint John II will be examined.

*** All juniors must take at least one church history course**

Students will be surveyed prior to course selections to determine which of the following theology courses (161 - 171) will be offered for the 2018/19 school year. The selected courses will be available on the course selection sheets.

161/1161 Apologetics (CP)
Grades 11 & 12
1/2 Credit
Prerequisite: Theology 10

This course will equip students with the knowledge and technique necessary to defend their faith in a secular society. In today's world, we must not only believe but witness to the faith we assent to with compelling arguments. This course will study Christian evidence and concepts, as well as the Great Apologists of the Roman Catholic Church.

162/1162 Catholic Social Teaching (CP)
Grades 11 & 12
1/2 Credit
Prerequisite: Theology 10

The purpose of this course is to introduce students to the Church's social teaching. In this course, students will learn how Christ's concern for others, especially the poor and needy, is present today in the Church's social teaching and mission. A focal point of this course will be the famous Social Justice encyclicals from Pope Leo XIII's *Rerum Novarum* to Pope Francis's *Laudato Si'*.

163/1163 Ecumenical & Interreligious Issues (CP)
Grades 11 & 12
1/2 Credit
Prerequisite: Theology 10

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 in 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.

164/1164 Faith in Film: Cinematic Theological Reflection (CP)
Grades 11 & 12
1/2 Credit
Prerequisite: Theology 10

Film and television programs have enormous influence on our society and help to shape the way we view the world.

This course will offer students the opportunity not only to explore the history and aesthetics of film, but also to evaluate and understand them from a theological perspective. Classic and contemporary film and television productions will be explored in this course.

165/1165 Intro to Sacred Languages – Biblical Greek or Biblical Hebrew (CP)
Grades 11 & 12
1/2 Credit
Prerequisite: Theology 10

This course will study Sacred Scripture in its original languages. Each course will examine foundational texts of the Old and New Testament. While the fundamental relationship between language and religion has been long acknowledged, new interdisciplinary research including sociolinguistics, religious studies, sociology, and linguistics has resulted in a renewed interest in the area.

166/1166 Pauline Epistles (CP)
Grades 11 & 12
1/2 Credit
Prerequisite: Theology 10

Saint Paul is the premier Theologian of Christian History. We are blessed to have preserved for us in Sacred Scripture a significant body of his correspondence. This course will examine, in depth, all the Pauline epistles with a special emphasis on Saint Paul's masterpiece, *The Letter to the Romans*. Students will read the primary sacred text of scripture as well as works of commentary from the Church Fathers and contemporary Biblical scholars.

167/1167 Spirituality & Vocation (CP)
Grades 11 & 12
1/2 Credit
Prerequisite: Theology 10

Christian Spirituality has a rich tradition of insight into not only ordinary life, but mystical life in Christ. This course will examine Masters of Christian Spirituality, including Saint Catherine of Siena, Saint Teresa of Avila, Saint John of the Cross, Saint Francis of Assisi, Saint Clare, and Saint Padre Pio. Students will also explore the Christian call to vocation including priesthood, diaconate, religious life, and marriage.

168/1168 The Prophets of Old Testament (CP)
Grades 11 & 12
1/2 Credit
Prerequisite: Theology 10

The Prophets of Old Testament call God's Chosen People to repentance and a hope of a brighter future; they also prophesized the coming of the Messiah. Students will study the four Major Prophets (Isaiah, Jeremiah, Ezekiel, and Daniel) and the twelve Minor Prophets. They will also study prophets from the Books of Samuel and Kings, especially Elijah. Students will not only learn the history of Biblical Prophecy, but also its relevance for today.

169/1169 Faith, Science, & Reason: Cosmology, Technology, & Bioethics (HON)
Grades 11 & 12
Credit 1/2
Prerequisite: Theology 10 Honors

In our Scientific Age, the prospective of faith coupled with reason is essential to humanity's survival. Students will examine the new cosmology and its

implications for humanity's place in the Universe, technology and its impact on human society, and bioethics and the existential question of what it means to be human. This course is highly recommended for students considering careers in Healthcare, Computer Science & Technology, and Astrophysics.

170/1170 Patristics: The Fathers of the Church (HON)
Grades 11 & 12
Credit 1/2
Prerequisite: Theology 10 Honors

The Fathers of the Church are an essential part of Sacred Tradition. This course will offer an unparalleled opportunity to read their original writings. Giants of our Faith will be examined, such as Saint Augustine, Saint Ambrose, Saint Gregory the Great, Saint Jerome, Saint Basil the Great, Saint Athanasius, Saint John Chrysostom, and Saint Gregory Nazianus.

171/1171 Visual Theology – Christian Art & Architecture (HON)
Grades 11 & 12
Credit 1/2
Prerequisite: Theology 10 Honors

Humans have given glory to God in masterpieces of art and architecture, from the ceiling of the Sistine Chapel, to the Pieta, to the Last Supper of DaVinci, to the Dome of Saint Peter's, and the soaring towers of Notre Dame. We will examine these Masterworks, these hymns of praise in tapestry, paint, marble, brick, granite, and stone. There will be an optional pilgrimage and study tour abroad to Rome & Florence to explore these wondrous works of art in person during school vacation.

180 Western Mind: Faith & Reason throughout the Millennia (HON)
Grade 12
Credit 1
Prerequisite: Invitation

This course aims at developing an understanding of the essential characteristics of theology (*fides*) and philosophy (*ratio*) and the methods of philosophical and theological thinking, as well as enhancing an understanding of and appreciation for literature, art & film, and the history & philosophy of science. The Western Intellectual Tradition can be characterized as a series of answers to the most basic questions of human existence. This invitation-only course is a full-year seminar exploring the dynamic interaction of the twin pillars of faith and reason through the centuries in the spirit of Pope John Paul II's landmark encyclical *Fides et Ratio*. The rigorous synthesis and higher order reasoning that this culminating course develops is an excellent preparation for the demands of collegiate study. The Seminar will proceed by means of discussion, papers, and projects. Student will be expected to participate in certain mandatory course activities outside of class.

World Languages

Statement of Purpose:

The purpose of the department is to enable students to communicate in the target language within the framework of the culture that the language represents.

Goals and Objectives:

1. The development of the student's ability to understand and speak the modern language.
2. The development of the student's ability to read and write the target language, whether modern or classical.
3. The development of the student's appreciation of and respect for persons of diverse cultures.
4. To immerse the students in the target language to an extent appropriate to their ability.

Courses:

5502 French I (CP)

Grades 9 – 10

1 Credit

Prerequisite: None

This course is designed for students with little or no French background. As students build grammatical foundations of the language, emphasis is placed on language communication skills such as listening, speaking, reading and writing. Role-playing and songs in class will encourage students to communicate in French. Mini projects will develop creativity while illustrating vocabulary and grammar in context. Finally, a variety of cultural vignettes and activities will help the students familiarize themselves with the culture of France and French speaking countries.

5504 French II (CP)

Grades 10 – 12

1 Credit

Prerequisite: French I/ Dept. Approval via the world language placement exam

This course builds upon the foundation laid in French I. Students review basic concepts while expanding vocabulary. Past tenses are learned and their uses are compared and contrasted. Pronouns and their use are explored. Cultural units review France and her history through readings and classroom discussions. The reading and analysis of elementary level short stories will help students apply grammatical concepts in context. Speaking skills will be reinforced through various classroom activities.

5505 French II (HON)

Grades 9 – 12

1 Credit

Prerequisite: A- or better in French I /Dept. Approval via the world language placement exam

The students of this class are self-motivated and capable of independent learning. Students will build strong grammatical foundations and the vocabulary necessary for reading, writing, listening and speaking the language. Fluency and creativity will develop through short essay writing, and oral discussions. French will gradually become the only language spoken in the classroom.

5542 French III (CP)

Grades 11 – 12

1 Credit

Prerequisite: French II

The skills developed in French II are reinforced and practiced at a more advanced level. The future and conditional tenses are introduced at this points. Guided writing assignments focus on clarity of expressions while classroom

activities focus on improving speaking and listening skills. Students will read a short novel in French.

**5506 French III (HON)
Grades 10 – 12**

**1 Credit
Prerequisite: French II (HON)**

In this course, students will continue to build a strong background in the four language skills: listening, speaking, reading and writing. After a comprehensive review of the verbal and grammatical components, emphasis will be placed on formal essays and reading comprehension of literary texts. Students will develop fluency through listening activities, class presentations, and read one or two short novels in French. A broad range of vocabulary and activities related to French culture will also be included in the curriculum.

**5543 French IV (CP)
Grades 11 – 12**

**1 Credit
Prerequisite: French III**

This course provides students with the skills they need to move forward toward proficiency with and emphasis on communication and culture. While grammatical and verbal structures will be reviewed, new vocabulary and expressions will be learned to allow students to communicate in real and practical situations using the target language. In the second semester, students will read one or two short novels in French.

**5507 French IV (HON)
Grades 11 – 12**

**1 Credit
Prerequisite: French III (HON)**

French IV Honors is designed for students who have completed two years of high school French at the honors level. One goal of this advanced course is to develop

proficiency in the four skills of the language: speaking, listening, reading and writing while mastering essential grammatical and verbal structures and developing a strong vocabulary base.

In this course, students will develop reading comprehension strategies via a variety of literary genres. Essays will demonstrate organization while applying critical, analytical, and logical thinking. Listening and speaking exercises from audio cds will promote an understanding of the language spoken by native speakers and will stimulate the student to acquire fluency. In the second semester, students will read one or two short novels in French. French will be the only language spoken in the classroom.

**545 French V (HON)
Grades 12**

**1 Credit
Prerequisite: French IV (HON)**

French V Honors is designed for the students who have completed three years of high school French at the honors level. This class is conducted entirely in French. The goal is to develop proficiency in the four skills of the language: speaking, listening, reading and writing. In the second semester, students will read a short novel in French.

**5510 Spanish I (CP)
Grades 9 – 10**

**1 Credit
Prerequisite: None**

This full year course is designed for the student with little or no Spanish language background. The course introduces and reinforces the use of the basic grammatical structures of the language and enables the student to use these structures in written and oral communication. Vocabulary and grammar concepts will be reinforced through readings, dialogues, projects, and other media.

**5511 Spanish I (HON)
Grades 9 – 10**

**1 Credit
Prerequisite: Dept. Approval via the world language placement exam**

This course is designed for students who have taken Spanish in middle school or for students with no Spanish background who are prepared for the academically rigorous material of an Honors course. The course introduces and reinforces the use of the basic grammatical structures of the language and enables the student to use these structures in written and oral communication.

The students will review and learn new vocabulary and grammar through readings, dialogues, projects, and other media.

**5512 Spanish II (CP)
Grades 10 – 12**

**1 Credit
Prerequisite: Spanish I**

This course is designed for students who have successfully completed Spanish I at the high school level. This course builds upon the foundation laid in Spanish I. Students review basic concepts while expanding vocabulary. A strong grammatical foundation is built through the study of the past tenses, future, conditional tenses, and object pronouns and their uses. Mini projects will develop creativity while illustrating vocabulary and grammar in context.

**5513 Spanish II (HON)
Grades 9 – 12**

**1 Credit
Prerequisites: Spanish I (HON) / Dept. Approval via the world language placement exam**

This honors course builds students' skills in listening speaking, reading and writing the language. A strong grammatical foundation is built through the study of the past tenses, future, conditional tenses, and object pronouns and their uses. The

core content of this course is the same as that of the CP level, but the course goes more in depth on grammatical, cultural and vocabulary topics at a faster pace. Mini projects will develop creativity while illustrating vocabulary and grammar in context.

**5517 Spanish III (CP)
Grades 10 – 12**

**1 Credit
Prerequisite: Spanish II**

The skills developed in Spanish I and II are reviewed, reinforced and practiced at a more advanced level during the first semester. During the second semester, the subjunctive mood is introduced and students learn to compare and contrast its uses with the indicative tenses. Spanish culture is explored in more depth through the use of cultural readings and selections of Spanish literature. Classroom activities focus on improving speaking and listening skills through reading and oral presentations.

**5514 Spanish III (HON)
Grades 10 – 12**

**1 Credit
Prerequisite: Spanish II (HON)**

At the level the students experience more immersion in the target language and the use of English diminishes as students advance—through the curriculum. New vocabulary is introduced through the geography, history and literature which is designed to improve reading comprehension. All indicative tenses of regular and irregular verbs are reviewed and mastered. The subjunctive mood is introduced and students learn to compare and contrast its uses with the indicative tenses. Students write formal essays and develop their own critical thinking skills. Students learn and expand communicative skills through conversation in class and cumulative interactive assessments.

516 Spanish IV (CP)
Grades 11 – 12
1 Credit
Prerequisite: Spanish III

At the level the students experience more immersion in the target language and the use of English diminishes as students advances through the curriculum. New vocabulary is introduced through the geography, history and literature which is designed to improved reading comprehension and critical thinking. The indicative mood, the present subjunctive tense and other basic and intermediate grammar topics are reviewed and reinforced. Emphasis is placed on the ability on developing listening and speaking skills and the ability to express thoughts and opinions in writing. Cultural understanding is reinforced through various forms of media such as readings, music and film.

5515 Spanish IV (HON)
Grades 11 – 12
1 Credit
Prerequisite: Spanish III (HON)

The Spanish IV (HON) course is designed to reinforce the four major skills of the Spanish language: listening, speaking, reading and writing learned in the first three years of Spanish study. These four skills will be refined through reading selections of Spanish literature and/or new articles, writing compositions using a variety of verb tenses, oral presentations and traditional assessments. Students will also explore and study the multiple facets of the Spanish speaking world including art, history, literature, music and film.

518 Spanish V (HON)
Grade 12
1 Credit
Prerequisite: Spanish IV (HON)

The Spanish V course is designed to refine students' abilities to use the four critical areas: speaking, listening, reading and writing in an integrative approach. They will be exposed to multiple facets of the

Spanish culture including art, literature, music, film and history in order to gain a holistic understanding of the language.

5530 Latin I (CP)
Grades 9 – 10
1 Credit
Prerequisites: None

This course is a grammar-intensive study of the Latin language, which will develop the student's ability to read Latin in order to learn about life in Ancient Rome and its enduring effects on our current civilization. An integral part of the course relates Latin to the English and Romance languages in the areas of vocabulary derivatives and etymology.

5529 Latin I (HON)
Grades 9 – 12
1 Credit
Prerequisites: Dept. Approval

This rigorous course is a grammar-intensive study of the Latin language, which will develop the student's ability to read Latin in order to learn about life in Ancient Rome and its enduring effects on our current civilization. An integral part of the course relates Latin to the English and Romance languages in the areas of vocabulary derivatives and etymology.

5531/5532 Latin II (CP/HON)
Grades 10 – 11
1 Credit
Prerequisite: Latin I

This course continues the study of more advanced grammatical constructions in Latin. Roman life and heritage and their affects on our own times are considered through selections from Classical Roman authors. An ongoing feature is the linguistic relation of Latin to English vocabulary and orthography. Latin II Honors students will be assigned additional advanced readings and grammar work. Honors students agree to meet with the instructor outside of class time regularly to review the Honors assignments.

5533/5534 Latin III (CP/HON)
Grades 11 – 12
1 Credit
Prerequisite: Latin II

The course continues an overview of the Latin language as reflected in selected writers. Included are readings of Roman history adapted from Livy, as well as selections from other authors such as Caesar, Catullus, and Martial. The influence of Latin in the emerging Christian Roman world is also examined. Latin III Honors students will be assigned additional advanced readings and grammar work. Honors students agree to meet with the instructor outside of class time regularly to review the Honors assignments.

535 Latin IV (HON)
Grades 12
1 Credit
Prerequisite: Dept. Approval & Latin III

This course is an intensive study of Roman literature, primarily the authors Vergil and Ovid. Continued review of Latin grammar and vocabulary will be a component of the class. The study of the linguistic relationship between Latin and English as well as Latin's influence on the modern church will be part of the course.

**Virtual Learning Academy
Charter School**

Virtual Learning Academy Charter School (VLACS) is an online educational opportunity operated through the Exeter school district.

Trinity will not give credit for any VLACS course that is offered within Trinity's curriculum. Prior approval from Trinity's academic and college planning must be obtained for any VLACS course to appear on a Trinity transcript. Although the VLACS course may appear on the Trinity transcript, the grade will not calculate into the student's GPA. Trinity will only provide a student with the opportunity to participate in a VLACS course and does not exercise any control over content of the curriculum or the assignment of grades. All registration and course requirements fall upon the student to complete.

Interested students can access the VLACS via the web address www.vlacs.org.