

2018-2019



PROGRAM OF STUDIES

INTRODUCTION

The purpose of this Program of Studies is to provide necessary information regarding the courses offered at TCHS. It is meant to assist students and their parents in selecting the best possible program based upon the individual's abilities and needs. Concerned and qualified teachers, counselors and administrators are all willing to give guidance. However, parents should feel free to discuss any problems that they can foresee concerning their child's program or credits. A wise selection of subjects and a commitment to the development of good study habits on the part of the students will enable the individual to profit from a high school career.

As part of a planned guidance program, students select courses early in the year. In general, a change may be made only for those students who do not attain the required marks in their final average and/or have a schedule conflict. Any other course change may be allowed only for extraordinary or exceptional reasons.

All courses require administrative approval. Placement is based upon standardized test scores, previous academic attainment, and departmental observations.

Students generally follow a four-year curriculum in the initial Program level. In order to be considered for transfer to the next Program level (e.g., College I to Honors), the student must present in each class an A- average with no individual report card mark lower than B. The school reserves the right to withdraw a course based upon its enrollment.

UConn Early College Experience

UConn early college experience (ECE) provides academically motivated students with the opportunity to take university courses while still in high school. These challenging courses allow students to preview college work, build confidence in their readiness for college, and earn college credit that provides both an academic and financial head start on a college degree. UConn ECE instructors, who are high school teachers certified as adjunct professors by UConn faculty. Trinity Catholic High School offers UConn ECE courses in AP European History, AP US History and AP Physics. An application has been made for additional classes. UConn ECE students must register through UConn website, this information is given through the guidance department. ECE students must successfully complete the course with a grade of C or above to receive university credit. University credit are highly transferable to other colleges and university. For additional program information, visit; www.ece.uconn.edu

Advanced Placement College Courses

AP, or Advanced Placement, Courses are college-level courses that a student can take in high school. Typically, the school offers these courses to students who are in their honors program or who have completed all the high school courses available in the subject. These courses tend to be, therefore, courses in math and English, although they can be in virtually any subject. Students are taking part in the most widely accepted college-level academic program available to high school students. The courses are more rigorous than high school courses since they are, in fact, college courses and students can receive college credit for taking the courses, based on testing results and individual university requirements. TCHS offers advanced placement in Biology, World Studies, English 3, English 4, US History, Chemistry, Calculus, European History, Spanish 5 and Physics.

Distance Learning (Online) Courses

Trinity Catholic High School will offer the opportunity for students to take courses through distance learning as a means to expand our course offerings. Class offerings that do not meet enrollment requirements to be offered in the traditional classroom setting can be taken through a distance-learning program. There are additional fees associated with registering for these courses. Students should confer with their guidance counselor for additional information regarding this option. Courses that may be offered online are indicated in the Program of Studies.

PLEASE NOTE: ALL ELECTIVES MUST HAVE A MINIMUM NUMBER OF STUDENTS ENROLLED TO RUN.

GRADUATION REQUIREMENTS

In order to graduate, students must earn a minimum of 27 credits. Included in these credits must be:

<u>DEPARTMENT</u>	<u>REQUIRED CREDITS</u>	<u>REQUIRED COURES</u>
Religion	4 Credits	- Reach Out: 4 years @ 1/4 credit per year
Religion	1 Credit	
English	4 Credits	
Social Studies	4 Credits	- World Studies, Modern World Studies, U.S. History, Government
Foreign Language	3 Credits	- Three year sequence in the same language
Mathematics	4 Credits	- Algebra I, Algebra II, Geometry, (Trigonometry/Pre-Calculus, Calculus)
Science	3 Credits	- Earth Science, Biology, Chemistry
Technology	.50 Credit	
Physical Science/Health	1 Credit	
Fine Arts	.50 Credit	

Students must take a specific number of credits during each of their four years. This requirement provides the guidance, which ensures that the students obtain the maximum amount of benefit from their course of studies. Students within the Honors Program will have additional requirements to graduate with honors distinction.

FRESHMAN YEAR COURSE SEQUENCE

Department	Assigned Requirement	Credit	Department Level Selection Criteria
Religion	Religion 1 International Religion Reach Out	1 1 .25	- 25 hours of service each year
English	Honors English 1 English 1	1 1	- Admission packet: report cards, admissions essay - To move up one level, the requirement is an A-average and teacher recommendation. To remain in the Honors/AP level track, a B-must be maintained
Social Studies	Honors World Studies World Studies	1 1	- Admission packet: report cards, admissions essay - To move up one level, the requirement is an A-average and teacher recommendation. To remain in the Honors/AP level track, a B-must be maintained
World Languages	Italian 1 Italian 2 Spanish 1 Spanish 2 Honors Spanish 2	1 1 1 1 1	- 9th grade placement for language levels above level 1 is based on the placement exam given to incoming students in the Spring as well as on previous standardized test scores and evaluations
Mathematics	Algebra 1 Honors Geometry Geometry	1 1 1	- Honors Geometry/Geometry: score on Algebra 1 test in the Spring - Algebra 1: incoming placement test
Science	Honors Biology Biology Earth Science	1 1 1	- Freshman placement is based on Math placement - To move a level, need an A in previous science course and correct math placement for new level
Physical Education/ Health	Physical Education/Health 9	.50	
Fine Arts/Technology Elective	Computer Science 1 Fine Arts Survey	.50	

Note: all freshmen must carry 7.25 credits

SOPHOMORE YEAR COURSE SEQUENCE

Department	Assigned Requirement	Credit	Department Level Selection Criteria
Religion	Religion 2 Reach Out	1 .25	- 25 hours of service each year
English	Honors English 2 English 2	1 1	- To advance one level, an A- average and teacher recommendation - To remain in Honors/AP level track for the following year, B- average must be maintained
Social Studies	Honors Modern World Studies Modern World Studies AP World History	1 1 1	- To advance one level, an A- average and teacher recommendation - To remain in Honors/AP level track for the following year, B- average must be maintained
World Languages	Honors Spanish 3 Spanish 3 Honors Spanish 2 Spanish 2 Spanish 1 Italian 3 Italian 2 Italian 1	1 1 1 1 1 1 1 1	- Placement into next consecutive level based upon The successful completion of previous level - Recommendation of teacher
Mathematics	Honors Algebra 2 Algebra 2 Honors Geometry Geometry Integrated Geometry Integrated Algebra	1 1 1 1 1	- Honors Algebra 2: B- in Honors Geometry or A In Geometry - Successful completion of Geometry - Honors Geometry: A in Algebra 1 - Integrated Geometry: successful completion of Integrated Algebra 1
Science	Honors Chemistry Biology	1 1	- To move a level, need A in previous science course and correct Math placement - To move from Honors to AP course, B- is needed
Physical Education/ Health	Physical Education/Health 10	.50	
Fine Arts/Technology Elective	Computer Science 1 Digital Workshop	.50 .50	

Note: all sophomores must carry 7.25 credits

JUNIOR YEAR COURSE SEQUENCE

Department	Assigned Requirement	Credit	Department Level Selection Criteria
Religion	Religion 3 Reach Out	1 .25	- 25 hours of service each year
English	AP English 3 Honors English 3 English 3	1 1 1	- To advance one level, an A- average and teacher recommendation - To remain in Honors for the following year, B-average
Social Studies	AP U.S. History Honors U.S. History U. S. History	1 1 1	- To advance one level, an A- and a teacher recommendation - To remain in Honors for the following year, B-average
World Languages	Honors Spanish 3 Spanish 3 Honors Spanish 2 Spanish 2 Spanish 1 Italian 3 Italian 2 Italian 1	1 1 1 1 1 1 1 1	- Placement into next consecutive level based upon the successful completion of previous level - Recommendation of teacher
Mathematics	Honors Pre-Calculus Trigonometry/Pre-Calculus Honors algebra 2 Algebra 2 Algebra 2 Integrated Geometry	1 1 1 1 1	- Honors PreCalculus: B- in Honors Algebra 2 or A- in Algebra 2 - Trigonometry/Pre-Calculus: B- in Algebra 2 - Honors Algebra 2: B- in Honors Geometry or A- in Geometry - Algebra 2: successful completion of Geometry - Integrated Algebra 2: successful completion of Integrated Geometry - Integrated Geometry: successful completion of Integrated Algebra
Science	AP Chemistry Chemistry Honors Physics Physics AP Physics 1 Principles of Engineering	1 1 1 1 1	- To move a level, need A in previous science course - To move from Honors to AP course, a B- is needed - For Physics and Engineering courses, students must be in Algebra 2 or above for math
Fine Arts Elective	7 Elements & Principles of Art Drawing, Painting, Sculpture	.50 .50	

Note: all juniors must carry 6.25 credits
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JUNIOR YEAR COURSE SEQUENCE

continued

Department	Assigned Requirement	Credit	Department Level Selection Criteria
Technology Elective	Digital Workshop Media Video Production 1 Media Video Production 2	.50 .50 .50	- Completed MVP 1 and permission of teacher
Physical Fitness/ Health Courses	Personal Fitness	.50	

Note: all juniors must carry 6.25 credits

SENIOR YEAR COURSE SEQUENCE

Department	Assigned Requirement	Credit	Department Level Selection Criteria
Religion	Religion 4 Reach Out	1 .25	- 25 hours of service each year
English	AP English 4 Honors English 4 English 4	1 1 1	- To advance one level: an A- average and teacher recommendation - To remain in Honors/AP level track: B- average must be maintained
Social Studies	Honors Government Government Economics Psychology Introduction to Law Sports in U.S. History AP European History Sociology	.50 .50 .50 .50 .50 .50 1.00 .50	- To advance one level, an A- and a teacher recommendation - To remain in Honors for the following year, B- average - Government is a required semester course
World Languages	AP Spanish 5 Spanish 5 Honors Spanish 4 Honors Spanish 3 Spanish 3 Italian 4 Italian 3	1 1 1 1 1 1 1	- Placement into next consecutive level based upon the successful completion of previous level - Recommendation of teacher
Mathematics	AP Calculus AB Honors Calculus Honors Pre-Calculus Trigonometry/Pre-Calculus Business Math	1 1 1 1 1	- AP Calculus: B- in Honors Pre-Calculus - Calculus: Trigonometry/Pre-Calculus or request of non AP - Honors Pre-Calculus: B- in Honors Algebra 2 - Trigonometry/Pre-Calculus: successful completion of Algebra 2 - Business Math: successful completion of Algebra 2 and teacher recommendation
Science	AP Physics C/UCONN Physics 1401Q AP Physics 1/UCONN Physics 1201Q Honors Physics Physics Intro/Principles of Engineering AP Chemistry AP Biology Anatomy Forensics Environmental Science	1 1 1 1 1 1 1 1 1 1 .50 .50	- To move a level, need A in previous science course - To move from Honors to AP course, a B- is needed with correct Math placement

SENIOR YEAR COURSE SEQUENCE

continued

Department	Assigned Requirement	Credit	Department Level Selection Criteria
Fine Arts Elective	7 Elements & Principles of Art Drawing, Painting, Sculpture	.50 .50 .	
Technology Elective	Digital Workshop Media Video Production 1 Media Video Production 2	.50 .50 .50	- Completed MVP 1 and permission of teacher
Physical Education/ Health Courses	Personal Fitness	.50	

Note: all seniors must carry 6.25 credits
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DEPARTMENT OF RELIGION

PHILOSOPHY

The goal of the Religion Department is to help students achieve a conscious, living and active Roman Catholic faith.

It has as the basis of its philosophy two fundamental concepts. First, it has a strong belief in the academic nature of the study of Religion in order to foster deeper intellectual understanding of essential concepts – Second, it endeavors to bring the students to an awareness of their personal development within a Christian community.

Hands-on faith development is also an important goal of this department; as such, a required component of the Freshman year is participation in the Reach-Out Program of Parish and Community Service.

The successful completion of four years of Religion is required of all students.

RELIGION 1

1 Credit

Required of All Freshmen

Old Testament-Hebrew Scriptures-Semester One

The Old Testament-Hebrew Scriptures is a one-semester course that will give an overview of the Old Testament will provide students with a solid foundation in Biblical Roots of the Christian Religious Tradition. Integrating Sacred Scripture into prayer life and moral decision-making will also be stressed.

New Testament-Christian Scriptures-Semester Two

The New Testament-Christian Scriptures is a one-semester course where the students will examine the writings of the New Testament. Students will learn the ultimate truth of God's revelation and will study the person, role, nature and message of Jesus the Christ. Students will also explore the development of Christology from the first century to the modern age. Integrating Sacred Scripture into prayer life and moral decision-making will also be stressed.

INTERNATIONAL RELIGION

1 Credit

This yearlong course for international students is an introduction to concepts surrounding spirituality and the formation of the world's religions. There is particular focus on traditional views, historical figures, and physical structures of various religions, including Catholicism, Judaism, Islam, Hinduism, Taoism, Confucianism, and Shintoism. Students learn the vocabulary associated with the sacraments and worshipping. Emphasis is also given to improving English speaking and writing skills. As a culminating project, students interact with the school community and/or community at large by performing an act of kindness, presenting their presentation to the class and reflecting upon their experience.

RELIGION 2

1 Credit

Sacraments - Semester One

Sacraments is a one-semester course that will examine the rituals and historical backgrounds of each of the Seven Sacraments and how they are integrated into the Liturgical Life of the Church. The Sacraments are studied as symbols of Jesus' continued living presence in our world—they are presented as ways in which God reaches out to us in friendship and invites us in friendship to respond to a Divine love. Students gain insights into the Christian Community's worship and are invited into greater participation in the sacraments of the Church.

Comparative World Religions - Semester Two

Comparative World Religions is a one-semester course that will examine the major religions of the world. The tenets, liturgy, major figures, and morality of these religions are considered in comparison to Catholicism. Hinduism, Buddhism, Islam and Judaism are among those religions examined and compared.

RELIGION 3

1 Credit

Christian Morality - Semester One

The first semester of this course seeks to help in building a mature understanding of conscience and the making of moral decisions, which will serve as a guide to Christian living. The course applies these understanding to contemporary moral issues and a Christian interpretation of sexuality through the focus of the Ten Commandments, Sacred Scripture, Christian moral principles and the Beatitudes.

Social Justice - Semester Two

The second semester is an exploration of the issues of War/Peace, Justice, Racism, Poverty, Hunger, Violence, and the Social Mission of the Church in the world today. Practical as well as theoretical, the course will apply Gospel Values and Church teachings as found in the Catechism of the Catholic Church to contemporary problems.

RELIGION 4

1 Credit

Catholic Identity - Semester One

Catholic Identity is a one-semester course that will center on gaining knowledge and insight regarding the essential teachings of the Catholic Church. The articles of faith contained in the Apostles' and Nicene Creeds will be the basis of our study of the first part of the Catechism: *The Profession of Faith*. The focus of our study will be the Trinity, the Church, and salvation. Students will gain a deeper understanding of the Catholic faith by increasing their religious literacy, clarifying the relationship between sacred scripture and sacred tradition, and examining the example and contributions of the holy and faithful members of the Church.

Christian Morality in Film - Semester Two

Christian Morality in Film will use the genre of film to examine the Christian decision making process. Both fictional and true stories will be used with an emphasis on fundamentals of morality, such as, values, law and the role of Jesus as well as specific areas of morality, e.g. Wartime morality, capital punishment, medical ethics and suicide. Students will be required to view film with a goal toward critical analysis of circumstances, choices, actions and outcomes as evidenced by the characters and story lines of each individual movie. Class participation will be an essential element of this course.

REACH OUT 1, 2, 3, 4

.25 Credit

Reach Out is designed to help each student "live as a positive witness and responsible citizen in service of God and others." Service is also required to help each student recognize his/her individual talents and gifts and use them to benefit others in the community while understanding Christian service. Students will develop a sense of advocacy for an area of need in the community or Church.

Students are required to complete 25 hours of service in one activity at a community or parish institution or organization per academic year. Students will have the option to count six (6) hours of service given to TCHS by volunteering at a school-sanctioned event (required administrative approval).

DEPARTMENT OF ENGLISH

PHILOSOPHY

The English Department maintains that the proper use of the written word is the cornerstone of a strong liberal arts education. Graduates are expected to read with insight and sensitivity and to express themselves with clarity and cogency. Our program is intended to develop and encourage individual creativity and proficiency through the refinement of basic skills, the study of classic and contemporary literature, and the provision for personal experience in the creative process.

A solid foundation in freshman and sophomore years is augmented by a well-integrated writing and literature program during junior and senior years. The English Department pays particular attention to the many facets of our diverse and varied human experience. Underlying this program is the firm belief that the study of literature in all its forms enables the individual to move toward personal dignity and compassion for others as well as to develop an appreciation of the values and ideas in the body of our literary heritage.

ENGLISH 1 - HONORS

1 Credit

Honors English 1 offers an in-depth study of literature combined with a values-oriented composition program. This course emphasizes the development of students' ability to interpret and analyze literature and the development of students' written and oral expression. Students will have the opportunity to write in many genres with a focus on the structured essay. Vocabulary building, grammar study, and process writing complete the program.

ENGLISH 1

1 Credit

The course emphasizes the basic elements of literature and written composition. Students read and analyze various genres of literature, including short stories, poetry, novels, drama, and nonfiction. Students will have the opportunity to write in many genres and will focus on the structured essay. The process of composition, vocabulary building, grammar study, reading skills development, and oral presentations are stressed in this course.

ENGLISH 2 - HONORS

1 Credit

Honors English 2 focuses on critical reading and an in-depth analysis of literature. Students will read short stories, poetry, novels, drama, and nonfiction in order to develop an appreciation for quality literature. The writing program stresses the importance of the utilization of Standard Written English and focuses on the structured essay. Students will learn the process of researching, drafting, and composing a formal research paper. They will prepare for the SAT through grammar study and vocabulary building.

ENGLISH 2

1 Credit

This course emphasizes the development of critical and analytical reading and writing. Students will read short stories, poetry, novels, drama, and nonfiction in order to develop an appreciation for quality literature. The writing program stresses the importance of the utilization of Standard Written English and focuses on the structured essay. Students will learn the process of researching, drafting, and composing a formal research paper. They will prepare for the SAT through grammar study and vocabulary building.

ENGLISH 3 - A.P. LANGUAGE & COMPOSITION

1 Credit

Students in this introductory college-level English language and composition course read and carefully analyze a broad and challenging range of nonfiction prose selections, deepening their awareness of rhetoric and how language works. Through close reading and frequent writing, students develop their ability to work with language and text with a greater awareness of purpose and strategy, while strengthening their own composing abilities. Course readings feature expository, analytical, personal, and argumentative texts from a variety of authors and historical contexts. This course also includes a survey of the major works in American literature and SAT preparation. Students must demonstrate sophisticated reading and writing skills in preparation for the Advanced Placement English Language and Composition Exam in May. All students in the course must take the AP exam.

ENGLISH 3 - HONORS**1 Credit**

Honors English 3 offers an in-depth study of American literature from the Early American period to the present. This course emphasizes the development of analytical and critical reading and writing, vocabulary and grammar study, and SAT preparation. Students will write narrative, expository, persuasive, and expository essays and will continue to develop their research skills.

ENGLISH 3**1 Credit**

This course focuses on the study of American literature from the Early American period to the present. This course emphasizes the development of analytical and critical reading and writing, vocabulary and grammar study, and SAT preparation. Students will write narrative, expository, persuasive, and expository essays and will continue to develop their research skills.

ENGLISH 4 - AP LITERATURE & COMPOSITION**1 Credit**

This introductory college-level English literature course focuses on intensive reading, classroom discussion, and critical essays to enable students to develop the ability to derive mature insights independently. This course is based in British literature, tracing poetry historically from the development of alliterative verse through formal poetic structures. The study of prosody, scansion, metrical devices, and poetic figures of speech are all emphasized. Novels and plays are taught in a historical context, emphasizing a wide variety of themes such as duality, alienation, and moral turpitude. Students must demonstrate sophisticated reading and writing skills in preparation for the Advanced Placement Literature and Composition Exam in May. All students in the course must take the AP exam.

ENGLISH 4 - HONORS**1 Credit**

This course is an intensive study of British literature from the Anglo-Saxon Period to the Modern Age. Poems, plays, short stories, and novels are read, analyzed, discussed, and considered for their social, historical, and literary value. Modes of critical discourse are explored as avenues through which students may develop a critical voice of their own. Students are encouraged to go beyond the literal level of the text to become critical readers and thinkers. Students continue to develop and refine their writing skills and build vocabulary in preparation for the SAT and college level studies.

ENGLISH 4**1 Credit**

This course focuses on the study of British literature from the Anglo-Saxon Period to the Modern Age. Poems, plays, short stories, and novels are read, analyzed, discussed, and considered for their social, historical, and literary value. Modes of critical discourse are explored as avenues through which students may develop a critical voice of their own. Students are encouraged to go beyond the literal level of the text to become critical readers and thinkers. Students continue to develop and refine their writing skills and build vocabulary in preparation for the SAT and college level studies.

DEPARTMENT OF SOCIAL STUDIES

PHILOSOPHY

The Social Studies Department, through its courses, programs and projects, aims to provide a Christian environment and perspective in which students can analyze and react to the events of the past and relate those events in the future. It is our goal to help students develop those social studies competencies essential in today's complex, global society.

The department presents a course of study that reflects the Catholic/Christian worldview, and exercises freedom in the use of religious perspectives on history. The department focuses on the intellectual maturing of the student by developing his/her ability to express himself/herself through thinking, writing, reading and speaking in order to become an effective participant in a democratic society.

WORLD STUDIES

1 Credit

WORLD STUDIES - HONORS

1 Credit

GRADE 9

This course is a survey of world history that begins with ancient civilizations and traces the major developments of world history through to the Enlightenment of the 1700s. The study of Asia, Africa, Europe and Latin America will be discussed. The course focuses on the significance of religious, political, philosophical, social, scientific, and aesthetic thought. Students will be given a global perspective and intercultural understanding. Specific skills that will be stressed will be map reading, essay writing, critical thinking and document based assessments. For the Honors level, specific honors level work, including outside reading and writing assignments will be assigned.

WORLD HISTORY - AP

1 Credit

GRADE 10

The AP World History course is a continuation and elaboration on the prerequisite Pre-AP World Studies course offered to freshmen students. AP World History is a course of intensive study of human history from the beginnings of civilization until the modern age. The first part of the year will be spent reviewing major social, political and intellectual advancements and innovations of early human history until the Renaissance. The rest of the year will focus on the development of regional and influential world powers that interconnect and expand into the globalized world. Key focuses will be placed on interactions between groups and individuals as well as change and continuity of power, governance and society over time. Special attention will be placed on the students' development of specific skills such as reading and analyzing maps and charts, writing expository and critical thinking essays, completing document-based assessments and developing as a proactive learner. Upon completion of the course, students will take the AP World History course, which enables them the chance to receive college credit for the AP-level course.

MODERN WORLD STUDIES - HONORS

1 Credit

MODERN WORLD STUDIES - GRADE 10

1 Credit

This course is a continuation of the survey of world history that began in 9th grade with World Studies. Modern World Studies begins with the Enlightenment and French Revolution and traces the major developments of world history through the 21st century. The study of Asia, Africa, Europe and Latin America will be discussed. The course focuses on the significance of religious, political, philosophical, social, scientific, and aesthetic thought. Students will be given a global perspective and intercultural understanding. Specific skills that will be stressed will be map reading, essay writing, critical thinking and document based assessments. For the Honors level, specific honors level work, including outside reading and writing assignments, will be assigned.

U.S. HISTORY - AP
GRADE 11

1 Credit

Students develop knowledge of major events and trends, and an understanding of principal themes in American History from colonial times to the twenty-first century. Emphasis is put on the development of the student's ability to identify, analyze, and make critical evaluations of the significant factors, which contributed to the shaping of American History. Specifics skills that will be stressed will be map reading, essay writing, critical thinking and document based assessments. There will be a major emphasis on outside readings and written expression.

ALL students enrolled in the AP level will take the Advanced Placement Exam in U.S. History.

U.S.HISTORY
U.S. HISTORY - HONORS
GRADE 11

1 Credit

1 Credit

This course begins with a brief survey of the critically important themes of the early years of the Republic. The major emphasis of the course will be on the 20th and 21st Century. Major topics include the following: the rise of the United States as an industrial power, the New Deal, and the emergence of the United States as a world power, its role in the World Wars, the Cold War and the Post-Cold War World. Specific skills that will be stressed will be map reading, essay writing, critical thinking and document based assessments.

GOVERNMENT - HONORS
U.S. GOVERNMENT - GRADE 12

.50 Credit

.50 Credit

This semester course/ state requirement investigates the American federal system. Emphasis is placed on the background of political philosophy as well as on the Constitution and the Bill of Rights. Students develop civic understanding of democracy and good citizenship skills. Specifics skills that will be stressed will be essay writing, critical thinking and document based assessments.

The State of Connecticut requires one semester of Government.

ECONOMICS
GRADE 11, 12 (ELECTIVE)

.50 Credit

This semester course covers the basics of both micro and macroeconomics. It is designed to provide the student with the background and skills necessary to function as an informed and economically literate citizen. Specifics skills that will be stressed will include: critical thinking.

U. S. HISTORY - AP (University of Connecticut Early College Experience - History 1501-1502)
GRADE 11

Students develop knowledge of major events and trends, and an understanding of principal themes in American History from colonial times to the twenty-first century. Emphasis is put on the development of the student's ability to identify, analyze, and make critical evaluations of the significant factors, which contributed to the shaping of American History. Specifics skills that will be stressed will be map reading, essay writing, critical thinking and document based assessments. There will be a major emphasis on outside readings and written expression.

ALL students enrolled in the AP level will take the Advanced Placement Exam in U.S. History.

(This course is equivalent to UCONN's History 1501 and History 1502. Students, if registered through the UCONN program, will receive six UCONN credits upon successful completion of this class. A cumulative final exam is required. Only students approved and registered in the AP U.S. History elective may matriculate for this UCONN ECE class).

EUROPEAN HISTORY/University of Connecticut Early College Experience – History 1400)

GRADE 12 (ELECTIVE) - AP

1 Credit

This full year course is offered to students who have shown mastery and keen interest in social studies. It is an intensive course in college European History from the period 1500 to the present. Special emphasis will be placed on the emergence of the modern state system, the Renaissance and Reformation, the French Revolution, the World Wars, the Russian Revolution, the Cold War, and Post Cold War world. Major emphasis will be placed on extended reading and document-based assessments. **ALL students enrolled in this AP course will be required to take Advanced Placement Exam in European History.**

This course is equivalent to UCONN's History 1400. Students, if registered through the UCONN program, will receive three UCONN credits upon successful completion of this class. A cumulative final exam is required. Only students approved and registered in the AP European History elective may matriculate for this UCONN ECE class.

INTRODUCTION TO LAW

GRADES 11, 12 (ELECTIVE)

.50 Credit

This semester course will deal with Constitutional Law, the Law of Torts, Contractual Law, the Dual Court System, and Trial Procedures including mock trials. Lectures, small group work, outside readings and classroom discussions will be the methods of instruction. Specific skills that will be stressed will be essay writing, critical thinking and document based assessments.

SPORTS IN U.S. HISTORY

GRADES 11, 12 (ELECTIVE)

.50 Credit

This semester course traces the development of sports in the U.S. from early colonial times to the present day. It focuses on the history of organized sports and their cultural, economic, and social impact in the United States. Active participation in classroom activities is expected. Specific skills that will be stressed will be essay writing, critical thinking and document based assessments. Performance Assessment activities will also be a major component of the class.

PSYCHOLOGY

GRADES 11, 12 (ELECTIVE)

.50 Credit

This semester course will endeavor to investigate the basis of human behavior. Emphasis will be given to the psychology of the adolescent.

SOCIOLOGY

GRADES 11, 12 (ELECTIVE)

.50 Credit

This course is a one semester elective course that examines the five main focuses on sociological perspectives; cultures and social structures; social inequality; social institutions and social changes. Students will study topics including how groups and individuals relate to one another in our society.

DEPARTMENT OF WORLD LANGUAGES

PHILOSOPHY

The primary purpose and objective of learning a modern language is to gain the fluency to be able to communicate ideas in another language. From the first level of learning, students learn to listen, to speak, to read, and to write in the language in order to develop the fluency needed to be able to communicate in that language. Through this study, students also gain insight to and develop an appreciation for a culture that is different from their own.

In this respect, it is the belief of the Foreign Language Department that a student should learn a language that is not spoken at home. Therefore, a student who has a working knowledge of French, Creole, Italian, or Spanish should study a “foreign language”: a language other than the one in which they have a working knowledge.

It is also the belief of the Department that to gain the most benefit in the study of a foreign language, a student is to pursue a 3-year sequential study of one language. This is a requirement.

The Foreign Language Department reflects the school’s purposes and objectives by leading the student to the knowledge and understanding that there is a world beyond the student’s world. Knowledge of that world, in terms of language and culture, will better prepare the student to live and to play an important role in that world.

ITALIAN 1

GRADE 9, 10

1 Credit

This introductory course is designed for students with little or no previous study of Italian, focusing on all four language skills: listening, speaking, reading, and writing while emphasizing oral communication and cultural connections. In addition to traditional methods of assessments, students role-play, make small oral presentations, and engage in guided conversations.

ITALIAN 2

GRADE 9, 10

1 Credit

This course is a continuation of Italian 1. Students expand their vocabulary and learn more complex grammar. Emphasis is on speaking and listening. Students continue to learn and appreciate Italian culture through readings and activities.

ITALIAN 3

1 Credit

This course will continue to develop vocabulary and grammar. Students will begin reading and discussing topics of Italy’s literature, history, and culture.

HONORS ITALIAN 4

1 Credit

This course focuses on listening, speaking, reading, and writing at the intermediate/advanced proficiency levels through a variety of authentic resources such as radio and TV announcements, newspapers and magazines, Italian literature and art, as well as other nonfiction texts. Students demonstrate their oral proficiency through debates and discussions of historical, social and cultural aspects of life in the target language.

SPANISH 1

GRADE 9, 10

1 Credit

The students will be introduced to Spanish pronunciation; dialogues will be the basis for conversation. The listening, speaking, reading, and writing skills are begun, and basic Spanish grammar is introduced. An introduction to the life and culture of the Spanish-speaking world will be presented. Upon successful completion, the student will progress to Spanish 2.

SPANISH 2
GRADE 11

1 Credit

This class is a continuation of Spanish 1. Students will use dialogues and readings to develop their ability to understand and to speak elementary Spanish. Reading and writing skills are also developed. Basic grammar study is continued. Further study will be made of life and culture in the Spanish-speaking world.

SPANISH 2 - HONORS
GRADES 12

1 Credit

This course is designed to develop the skills begun in Spanish 1 through listening, speaking, reading, and writing, with a special emphasis on oral communication and cultural connections. In addition to traditional methods of assessments, students role-play, make small presentations, and engage in guided conversations. Honors Spanish pursues the same goals as non-honors Spanish but it is more intensive.

SPANISH 3
GRADES 9, 10, 11, 12

1 Credit

Spanish 3 provides the opportunity for students to strengthen the skills attained in Spanish 1 and Spanish 2. The objectives are in three areas: oral communication, linguistic skills, and literature. In oral communication, students will be able to create with language, to participate in progressively more challenging conversations, and to communicate successfully in basic survival situations. In linguistic skills, students will be able to strengthen their command of spoken and written Spanish in the following areas: in naming past, present and future events; in being able to express feelings, opinions and hypotheses using subjective and conditional constructions. In literature, students are introduced to short stories and brief sketches in order to strengthen reading skills and to help students appreciate short literary pieces.

SPANISH 3 - HONORS
GRADES 9, 10, 11, 12

1 Credit

This course is offered to highly motivated students who want to be challenged with a fast paced curriculum. Grammar and vocabulary will be covered in more depth, as well as familiarity with some grammatical concepts which are not taught in the regular Spanish 3 curriculum. Student will continue to develop their understanding of Spanish speaking cultures by integrating information on literature, art, history, music and current events into the curriculum. Students will also be working on pre AP Spanish skills and activities including reading, writing and speaking.

SPANISH 4 - HONORS
GRADES 10, 11, 12

1 Credit

This course combines practical vocabulary, oral use of the language, and a review of major grammatical points with the study and culture of the Spanish people. Students continue to refine their reading comprehension skills, and achieve sophistication and fluency in the spoken and written language. Selected material from Spanish literature, history and culture is an integral part of the course.

SPANISH 5 - AP
GRADES 11, 12

1 Credit

The object of this course is to provide an opportunity for students who have completed Spanish 4 to be able to continue their study of Spanish without having to take the Advanced Placement Language course. The class will emphasize reading, writing, speaking, and listening in the target language. Selected materials from Spanish and Latino literary works, newspapers, magazines, and film will be integral parts of this course. The class will be conducted entirely in the target language.

DEPARTMENT OF MATHEMATICS

PHILOSOPHY

Competency in Mathematics skills is essential to the effective functioning of an educated person in today's society. Understanding that different people require differing degrees of mathematical competence and have differing interests and skills, mathematics objectives and programs in varying levels of complexity have been established.

At all levels, students acquire competence in basic skills, learn basic mathematical concepts, and develop their ability to apply logical and analytic reasoning techniques to problem solving. Those students whose intent is to pursue a mathematically oriented career are provided with the advanced courses necessary to establish a firm foundation for subsequent studies.

In view of the technological age that we live in, it is necessary that all students be able to use technology in problem solving. The Mathematics Department requires that all students in all math courses have a graphics calculator in class and at home.

ALGEBRA 1 - HONORS **GRADE 9**

1 Credit

The topics covered in Algebra 1 are also covered in Honors Algebra 1, but in greater depth. Included in this course is the introduction to the study of the straight line, and the solution of simultaneous linear equations.

ALGEBRA 1 **GRADE 9**

1 Credit

This course is designed to cover the operations on the real number system, open sentences, graphing linear functions, and to develop the basic skills necessary for solving equations, inequalities and systems of equations. Additionally, the course will cover topics in polynomials and factoring, properties of exponents and radicals.

INTEGRATED ALGEBRA **GRADE 10**

1 Credit

This course is designed to cover the second half of Algebra 1. Topics will cover operations on the real number system, open sentences, graphic linear functions, and develop the basic skills necessary for factoring and solving both equations and inequalities.

GEOMETRY - HONORS **GRADES 9, 10**

1 Credit

This course is designed for those students who show above average ability in Algebra 1. The primary emphasis in this course will center about proof work with respect to parallel and perpendicular lines, congruency, area, circles, and properties of right triangles.

GEOMETRY **GRADES 9, 10**

1 Credit

This course is designed to cover topics involving parallel and perpendicular lines, congruency, and similarity, areas, circles, right triangles and right triangle trigonometry. Additionally, ability to reason deductively is developed through formal proof work.

INTEGRATED GEOMETRY **GRADES 10, 11**

1 Credit

This course is designed to emphasize the study of properties and applications of common geometric figures. Inductive and deductive reasoning skills are used in problem solving situations and applications to the real world are stressed.

ALGEBRA 2 - HONORS
GRADES 10, 11

1 Credit

This course is designed to cover topics of linear open sentences, introduction to functions, quadratic equations and functions, quadratic relations and functions, exponential and log functions, vectors and matrices.

ALGEBRA 2
GRADES 10, 11

1 Credit

This course is designed to cover elementary functions, general solutions to quadratic systems, and the laws of exponents. The number system will be expanded to cover the complex number system.

HONORS PRE-CALCULUS
GRADES 11, 12

1 Credit

This course is designed to cover topics in trigonometry and analytical geometry along with the study of theory equations, polynomial functions, and the theory of limits. A TI-83 calculator is required.

TRIGONOMETRY/PRE-CALCULUS
GRADES 11, 12

1 Credit

In the first semester, this course will develop the circular functions including trigonometric identities, equations and inverses. In the second semester, the main emphasis will be the analytic study of lines, conic sections and polynomials. Additionally, the Principle of Mathematical Induction will be introduced. A TI-83 calculator is required.

CALCULUS AB - AP
GRADE 12

1 Credit

This course is designed to cover topics in limits, derivatives of Algebraic functions, and their applications, integration and the application of the definite integral, transcendental functions, methods of integration, and plane analytical geometry. A TI-83 calculator is required. **All students will be required to take the AP Calculus Exam.**

STATISTICS - A. P. (on-line pending enrollment numbers)
GRADE 12

1 Credit

This course will cover topics in exploring data, sampling and experimentation, anticipating patterns, and statistical inference.

A TI-83 calculator is required. **All students will be required to take the AP Statistics Exam.**

Please note: Based on enrollment, this course may be offered online.

CALCULUS - HONORS
GRADE 12

1 Credit

This course will cover topics in limits, derivatives and their applications, integration, methods of integration and applications of the definite integral. A TI-83 calculator is required.

BUSINESS MATH
GRADE 12

1 Credit

This course will focus on Mathematics beyond the classroom. Students will be shown how mathematical concepts relate to different real world jobs and careers. Major areas of study will include accounting, finance, management, problem solving, number theory, algebra Applications, geometric applications, counting methods, probability and statistics, and personal financial management.

DEPARTMENT OF SCIENCE

PHILOSOPHY

Knowledge of the basic topics and principles of the physical, biological and health sciences is one of the attributes of the educated person in today's highly technological society. It is the purpose of the science program to help the students learn basic scientific principles and skills, to stimulate their curiosity and sense of responsibility, to develop critical and analytical skills, and challenge the student to use them in problem solving situations, and to generate in them an interest in the sciences which will exceed the bounds of our courses.

The Science Department believes that it is of primary importance to establish competency in the basic scientific concepts, methods, and skills on which advanced skills are built. Science programs develop critical and analytical skills and challenge the students to use them in problem solving situations. Students are encouraged to apply the methods they have learned in scientific problem solving to other areas and to use facts and well organized thought processes to determine their solutions.

Students come to an awareness of the intricacies of the nature of science and of the major role that it plays in their lives. Emphasis is put on becoming individuals who are able to evaluate scientific issues and make responsible decisions by using their knowledge and skills. Equal emphasis is put on the importance of considering man's unique nature within the natural world, and of the great responsibility he bears for its well being. As important as the need for knowledge, is the need to view the natural world with respect and sensitivity, and to believe in the value of our natural resources and of the creatures with whom we share our planet.

EARTH SCIENCE

1 Credit

GRADE 9

This course introduces earth science basic principles. The following topics will be studied: geology, earth structure and movements, weathering and erosion, weather and space science.

BIOLOGY - AP

1 Credit

GRADE 12

This course is an advanced study of biology. Students will cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes - energy and communication, genetics, information transfer, ecology, and interactions. All enrolled students are required to take the AP Biology exam in May. This course contains a lab component.

BIOLOGY - HONORS

1 Credit

GRADE 9, 10

This course is an in-depth study of biological science. Honors Biology is an evolutionary development of biological concepts from the unicellular level to man. The main focus of the course is on the molecular level. The course will teach the concepts, skills, and facts, which will enable the student to think both critically and creatively in problem solving situations. Laboratory work will provide the student with the opportunity to practice investigative skills. This course contains a lab component.

BIOLOGY

1 Credit

GRADE 9, 10

This course provides the student with a thorough study of the important concepts and ideas of biology from the simplest to the most complex levels of organization. It also provides interaction between content and critical thinking, processes and experiences with scientific methods by providing a variety of hands-on activities. Themes include: evolution, unity within diversity, use of energy, systems and interactions, and the nature of scientific inquiry. This course contains a lab component.

CHEMISTRY - HONORS
GRADE 10

1 Credit

This course is an in-depth study of Chemistry for the highly motivated student. It will cover concepts in atomic structure, formulas, stoichiometry, and kinetic theory of solids, liquids and gases. This course contains a lab component.

CHEMISTRY - A. P. & LAB
GRADE 11, 12

1 Credit

This course stresses the theoretical aspects of chemistry. Topics such as the structure of matter, kinetic theory of gases, chemical equilibria, chemical kinetics, and the basic concepts of thermodynamics are presented in considerable depth. The laboratory work deals with glass working, filtration, titration, the collection and handling of gases, colorimetry, and the separation and qualitative analysis of reactions and anions. This course contains a lab component. **Laboratory: 2 double periods per cycle**

CHEMISTRY
GRADE 11

1 Credit

This is the chemistry course, which stresses the principles of chemistry, and is designed for those students who are college bound. It will emphasize basic scientific concepts in atomic structure, the language of chemistry, equations, theories and laws, and stoichiometry. Laboratory work develops good investigative techniques, and allows the students to see the relationship between theory and practice. This course contains a lab component. **Laboratory: 1 double period per cycle**

PHYSICS – AP C - AP Physics C
GRADE 12

1 Credit

This course is calculus based. It provides instruction in kinematics, Newton's laws of motion, work, energy and power; systems of particles and linear momentum, circular motion and rotation and oscillations and gravitation. Laboratory experience helps the students understand the topics being considered. The students can earn UCONN college credits. All enrolled students are required to take the AP Physics C exam in May. This course contains a lab component. **Laboratory: 2 double period per cycle**

UCONN ECE Physics 1401Q

Students may apply to take the UCONN ECE Physics 1401Q course concurrently with AP Physics C. This is a college level Calculus-based Physics course and students who successfully complete all requirements will earn UCONN credit. Students wishing to take this course must demonstrate advanced mastery of critical thinking and problem solving and must meet all admission criteria.

PHYSICS – AP 1 - AP Physics 1
GRADE 11, 12

1 Credit

This is the equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. It will also introduce electric circuits. All enrolled students are required to take the AP Physics 1 exam in May. This course contains a lab component. **Laboratory: two, double-period per cycle**

UCONN ECE PHYSICS 1201Q

Students may apply to take the UCONN ECE Physics 1201Q course concurrently with AP Physics C. This is a college level Algebra based Physics course and students who successfully complete all requirements will earn UCONN credit. Students wishing to take this course must demonstrate advanced mastery of critical thinking and problem solving and must meet all admission criteria.

PHYSICS - HONORS**1 Credit****GRADE 11, 12**

This course is intended to produce a genuine understanding of the physical law to all sciences. It requires proficiency in mathematics. Topics include mechanics, electricity and magnetism, and the interactions between physics, technology and society. Laboratory demonstrations provide practical reinforcement of subject matter. This course contains a lab component.

PHYSICS**1 Credit****GRADE 11, 12**

This course builds a solid foundation for studying college-level physics. It intends to teach physics concepts without a need for the formal structure of applied mathematics, Topics include: mechanics, electricity, magnetism, modern physics, and the meaning of physics for contemporary society. This course contains a lab component.

ANATOMY**1 Credit****GRADE 12**

Students will study the structure and function of the human body.

PRINCIPLES of ENGINEERING**1 Credit****GRADE 11-12-ELECTIVE**

Pre-Engineering course based on Project Lead the Way curriculum. Students will be introduced to the world of science; technology; engineering and math by learning the engineering design process of solving real-life problems and create a product collaboratively with other students. PLTW classes are hands-on and based in real-world experience.

FORENSICS**.50 Credit****GRADE 12 ELECTIVE**

Forensic science is the application of scientific knowledge to questions of civil and criminal law. This course is a lab-based, hands-on course that will explore what forensic scientists do. You will learn modern forensic methods and use scientific methods to solve legal problems. This elective science class emphasizes on inquiry-based learning, process skills, and higher-order thinking skills. In addition, it will present an introduction to the possible career paths in the forensic sciences. As in all science courses, you will develop critical thinking skills and become fluent in the scientific method. Forensic scientists are also required to testify in court about their methods and analysis of evidence. To make a convincing case, you need to be able to clearly and concisely explain the results of the labs and techniques you use, and explain the significance of your results in lab reports. Finally, mock crime scenes will be investigated and real case studies analyzed.

ENVIRONMENTAL SCIENCE**.50 Credit****GRADE 12**

This course is designed to introduce students to major ecological concepts and the environmental problems that affect the world in which we live. Topics covered will be ecosystems, the atmosphere, the water, the land and past, present and future sources of energy.

FINE ARTS COURSES

PHILOSOPHY

Man is endowed with God-given talent, and the expression of this innate gift of creativity provides students with an important and satisfying dimension to their lives. Today's students are living at a time when the creative process is recognized as a major part of life, and there is a great need for constructive, inventive, productive, and evaluative thinking.

The art program provides the means by which students become aware of their creative potential and helps them to learn a variety of techniques, which assist them in its expression. Students begin to view their familiar world of materials, shapes, shadows and colors, with a new insight and perspective, and learn to understand and appreciate the creation of others as they develop their own talents. The flexibility of the program encourages the students to think for themselves and to work out problems that challenge individual thought and personal creativity.

FINE ARTS SURVEY

.50 Credit

Grade 9

Our Fine Arts Survey is treated as an art history class where we focus on learning the evolution of art, from the beginning of Cave Art, up to the time of Leonardo Da Vinci. We use a variety of materials to achieve a thorough grounding in art and its principles. This half-year course is a great beginner for our students here at TCHS.

SEVEN ELEMENTS OF ART & DESIGN

.50 Credit

GRADE 9, 10, 11, 12

Our 7 Elements of Art & Design is meant to take a deeper look at the Elements and Principles of Art and Design, doing a more in-depth study of Line, Color, Shape, Value, etc. Students begin focusing on lines and move through the elements through the course of half year. This is a great class for a student who wants a more thorough understanding of the basics of art.

DRAWING, PAINTING & SCULPTURE

.50 Credit

GRADE 9, 10, 11, 12

A more advanced class, we look at working with different types of paints, drawing materials and occasionally 3D materials like air-dry clay. This is a great course for a more advanced student of art who wishes to push themselves in creating works inspired by Andy Warhol, Pablo Picasso and Georgia O'Keefe.

TECHNOLOGY COURSES

PHILOSOPHY

The courses offered introduce the student to careers in computers. They provide the student the opportunity to learn the basic fundamentals of computers and give the student a foundation on which to continue studying computers at the collegiate level.

INTRO TO COMPUTERS 1

.50 Credit

GRADES 9, 10

Intro to Computer Applications is a course designed to teach students how to properly use the computer as a educational, personal and career tool. They will use the integrated software program Google. While working on creative projects, students will learn about Internet safety, proper keyboarding techniques, history of computers, and hardware and software. Subjects to cover will be: Keyboarding, The Operating System, The History of Computers, Computer Hardware and Software, The Internet, Word Processing, Presentation Applications and Techniques, Spreadsheet Applications.

DIGITAL WORKSHOP

.50 Credit

GRADES 10, 11, 12

Students will learn the basic Adobe Suite programs, Photoshop, Illustrator and InDesign, and how to navigate through them. They will learn the basic knowledge, skills, abilities, and processes required for graphic design. We will have hands-on activities that will include digital painting, digital drawing and illustrating, digital imaging and manipulation and graphic design. This course will allow students to explore their creativity and apply it into a digital format. While working on projects, students will begin to have a better understanding of graphic design, fonts, color, resolution, digital printing, and digital photography.

MEDIA VIDEO PRODUCTION I

.50 Credit

GRADE 11, 12

This is a hands-on TV studio production course. Students work together in a team as they are trained to operate a fully equipped professional digital TV studio and control room. Students receive rigorous broadcast training in camera operation, microphone set-up and audio engineering, lighting, floor directing, video switching, directing, and teleprompter operation.

MEDIA VIDEO PRODUCTION II

.50 Credit

GRADE 11, 12

This course will build upon the skills introduced in Media Video Production I and incorporate more advanced concepts and skills. Students will be required to film school events and produce segments which will be aired in the school and on our website. Students will be required to work independently and collaboratively and handle equipment responsibly.

PHYSICAL EDUCATION/HEALTH COURSES

PHILOSOPHY

The objectives of the physical education program are the physical, mental, and social development of the student through both team and individual activities.

The ninth grade program places its emphasis on the Fit for Life concept. The development of individual training programs; injury prevention and rehabilitation are all addressed in addition to the topics below.

PERSONAL FITNESS

.50 Credit

GRADE 11, 12

This course offers students the opportunity to enhance personal health and well-being. Students will workout either in the Gym, weight Room, or our new outdoor complex (weather permitting). Activities will include pickup games of a variety of sports, aerobics, weight training, stretching, injury prevention, and caring for your body to maintain a healthy lifestyle.

PHYSICAL EDUCATION/HEALTH 1

.50 Credit

GRADE 9

PHYSICAL EDUCATION/HEALTH 2

.50 Credit

GRADE 10

FIRST QUARTER

AAHPERD Fitness Testing
Flag Football
Volleyball
Field Hockey

SECOND QUARTER

Boys Weight Lifting/Fitness
Girls Basketball
Girls Floor Hockey

THIRD QUARTER

Girls Weight Lifting/Fitness
Boys Floor Hockey
Indoor Recreation
(Badminton, Table Tennis, etc.)

FOURTH QUARTER

Whiffle Ball/Softball
Archery
Golf
Spring AAHPERD Testing