MISSION STATEMENT

Sacred Heart Academy, founded by the Apostles of the Sacred Heart of Jesus in the Roman Catholic tradition and committed to the expression of strong Christian values and intellectual growth, provides a challenging college preparatory education for young women.

The School is a community which promotes the growth of the whole person in a caring environment that encourages personal integrity, compassion, justice and sense of responsibility to self, to others, and to the needs of society.

GRADUATION REQUIREMENTS

Sacred Heart Academy's balanced curriculum provides each student with a well-rounded academic foundation upon which to build. In addition to core requirements that provide broad exposure across several disciplines, an extensive selection of elective courses allows students to pursue special areas of interest. Honors, Early College Experience, and Advanced Placement courses are available for those students who qualify. Graduation from Sacred Heart Academy requires the successful completion of 27 credits distributed as follows:

<table>
<thead>
<tr>
<th>Department</th>
<th>Credit Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4.0</td>
</tr>
<tr>
<td>Mathematics</td>
<td>4.0</td>
</tr>
<tr>
<td>Theology</td>
<td>4.0</td>
</tr>
<tr>
<td>Science</td>
<td>3.0 (4 encouraged)</td>
</tr>
<tr>
<td>Social Studies</td>
<td>3.0</td>
</tr>
<tr>
<td>World Languages</td>
<td>2.0 (3 encouraged)</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>1.0</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1.0</td>
</tr>
<tr>
<td>Business and Computer Technology /</td>
<td>0.5</td>
</tr>
<tr>
<td>Interdisciplinary</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>4.5</td>
</tr>
</tbody>
</table>

Students in all grades are required to carry a minimum of 6.5 credits each year (with courses meeting during the school day), irrespective of their cumulative credit total earned towards the SHA graduation requirement (27 credits). Students are encouraged to plan their courses of study with advisors, teachers, and parents, mindful of the fulfillment of basic course requirements, intended college major, interests, and academic strengths.

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**FRESHMAN CURRICULUM**

<table>
<thead>
<tr>
<th>SUBJECT AREA</th>
<th>COURSE</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business/Technology</td>
<td>Computer Applications</td>
<td>P/F</td>
</tr>
<tr>
<td>English</td>
<td>Intro. to Literary Genres</td>
<td>1.0</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>Intro. to Fine Arts</td>
<td>0.5</td>
</tr>
<tr>
<td>World Language (*)</td>
<td>Span./ Lat/ Fren/Mand</td>
<td>1.0</td>
</tr>
<tr>
<td>Mathematics (*)</td>
<td>Algebra I/Geom./Alg.II</td>
<td>1.0</td>
</tr>
<tr>
<td>Physical Education</td>
<td>Physical Education</td>
<td>0.5</td>
</tr>
<tr>
<td>Theology</td>
<td>Theology I</td>
<td>1.0</td>
</tr>
<tr>
<td>Science</td>
<td>Biology</td>
<td>1.0</td>
</tr>
<tr>
<td>Social Studies</td>
<td>Ancient Civilizations</td>
<td>0.5</td>
</tr>
<tr>
<td></td>
<td>Freshman Transition</td>
<td>P/F</td>
</tr>
</tbody>
</table>

**TOTAL REQUIRED CREDITS** 6.5

(*): All incoming students are placed in the appropriate level math and world language as determined by the results of their Placement Tests in these subject areas.

**Sophomore Curriculum**

<table>
<thead>
<tr>
<th>SUBJECT AREA</th>
<th>COURSE</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>British Lit.</td>
<td>1.0</td>
</tr>
<tr>
<td>World Language</td>
<td>Span./ Lat/ Fren/Mand</td>
<td>1.0</td>
</tr>
<tr>
<td>Mathematics</td>
<td>Geometry/Algebra II</td>
<td>1.0</td>
</tr>
<tr>
<td>Theology</td>
<td>Theology II</td>
<td>1.0</td>
</tr>
<tr>
<td>Science</td>
<td>Chemistry</td>
<td>1.0</td>
</tr>
<tr>
<td>Social Studies</td>
<td>Western Civilization</td>
<td>1.0</td>
</tr>
</tbody>
</table>

**REQUIRED CREDITS** 6.0

**ELECTIVES** 0.5

(1.0 encouraged)

**TOTAL REQUIRED CREDITS** 6.5

(7.0 encouraged)

**Junior Curriculum**

<table>
<thead>
<tr>
<th>SUBJECT AREA</th>
<th>COURSE</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>American Lit. or AP Lang</td>
<td>1.0</td>
</tr>
<tr>
<td>Mathematics</td>
<td>Algebra II/Pre-Calc/Calc</td>
<td>1.0</td>
</tr>
<tr>
<td>Theology</td>
<td>Theology III</td>
<td>1.0</td>
</tr>
<tr>
<td>Social Studies</td>
<td>U.S. History</td>
<td>1.0</td>
</tr>
</tbody>
</table>

**REQUIRED CREDITS** 4.0

**ELECTIVES (+)** 2.5

(3.0 encouraged)

**TOTAL REQUIRED CREDITS** 6.5

(7.0 encouraged)

(+): Students may elect to fulfill the PE II requirement as a junior or senior

**Senior Curriculum**

<table>
<thead>
<tr>
<th>SUBJECT AREA</th>
<th>COURSE</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (+++)</td>
<td>World Lit.</td>
<td>0.5</td>
</tr>
<tr>
<td>Social Studies (+++)</td>
<td>U.S. Government</td>
<td>0.5</td>
</tr>
<tr>
<td>Theology</td>
<td>Theology IV</td>
<td>1.0</td>
</tr>
</tbody>
</table>

[+++] Students must complete at least 4 English credits to graduate. AP Literature meets the half-credit World Literature requirement and completes the four-credit graduation requirement in English.

[+][+] Students must complete at least 3 Social Studies credits to graduate. AP Gov meets the half-credit U.S. Government requirement.

**REQUIRED CREDITS** 2.0

**ELECTIVES** 4.5

**TOTAL REQUIRED CREDITS** 6.5 minimum

**Grading Information**

Honors courses are designed to challenge highly motivated students with proven study skills. Students who qualify for multiple honors courses must carefully consider, with their parents and advisor, the number of honors courses to select each semester. In order to advance to the next level in a subject, students who attend summer school must have approval from the principal and must pass the SHA final exam for the subject. A minimum 3.5 GPA constitutes Honors and 3.8, High Honors. Teachers will compute averages using the numerical equivalents. The computer will convert the letter grade into quality points to adjust the grading scale for course level.

**Grading Scale**

<table>
<thead>
<tr>
<th>Num. Equiv.</th>
<th>Letter Grade</th>
<th>Qual. CP</th>
<th>Qual. Honors</th>
<th>Qual. AP</th>
</tr>
</thead>
<tbody>
<tr>
<td>97-100</td>
<td>A+</td>
<td>4.33</td>
<td>4.67</td>
<td>5.0</td>
</tr>
<tr>
<td>93-96</td>
<td>A</td>
<td>4.00</td>
<td>4.33</td>
<td>4.67</td>
</tr>
<tr>
<td>90-92</td>
<td>A-</td>
<td>3.67</td>
<td>4.00</td>
<td>4.33</td>
</tr>
<tr>
<td>87-89</td>
<td>B+</td>
<td>3.33</td>
<td>3.67</td>
<td>4.00</td>
</tr>
<tr>
<td>83-86</td>
<td>B</td>
<td>3.00</td>
<td>3.33</td>
<td>3.67</td>
</tr>
<tr>
<td>80-82</td>
<td>B-</td>
<td>2.67</td>
<td>3.00</td>
<td>3.33</td>
</tr>
<tr>
<td>77-79</td>
<td>C+</td>
<td>2.33</td>
<td>2.67</td>
<td>3.00</td>
</tr>
<tr>
<td>73-76</td>
<td>C</td>
<td>2.00</td>
<td>2.33</td>
<td>2.67</td>
</tr>
<tr>
<td>70-72</td>
<td>C-</td>
<td>1.67</td>
<td>2.00</td>
<td>2.33</td>
</tr>
<tr>
<td>67-69</td>
<td>D+</td>
<td>1.33</td>
<td>1.67</td>
<td>2.00</td>
</tr>
<tr>
<td>65-66</td>
<td>D</td>
<td>1.00</td>
<td>1.33</td>
<td>1.67</td>
</tr>
<tr>
<td>Below 65</td>
<td>F</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

**Advanced Placement (AP) and Early College Experience (ECE) Courses**

AP and ECE classes are college-level courses and, as such, are more demanding. Students should expect more required reading, a heavier workload, and applications involving analytical reasoning.

**Advanced Placement (AP) Courses**

*The AP exam is required for each Advanced Placement class. The College Board determines the fee, billed later, separately from tuition.*

SHA’s 23 AP course offerings include:

- AP English Language & Composition
- AP Spanish Language
- AP Chinese Language & Culture
- AP Calculus AB
- AP Statistics
- AP Chemistry
- AP Computer Science Principles
- AP U.S. History
- AP U.S. Government
- AP Computer Science A (^)
- AP Environmental Science (^)
- AP Human Geography (^)
- AP Macroeconomics (^)
- AP Music Theory (^)
- AP Microeconomics (^)

(^) Course offered through OneSchoolHouse (formerly Online School for Girls)
EARLY COLLEGE EXPERIENCE (ECE) COURSES

UConn ECE courses allow students to earn college credit while enrolled at SHA. For all ECE courses, UConn will bill students separately.

SHA’s UConn ECE course offerings are:

- AP/ECE Biology
- AP/ECE Calculus AB
- AP/ECE French
- AP/ECE Latin
- Honors / ECE Precalculus

NOTE: UConn instructors are announced in the early spring. At that time, students will be notified of any changes to the list of ECE-eligible courses.

UConn Early College Experience (UConn ECE) provides academically motivated students with the opportunity to take university courses while in high school. These challenging courses allow students to preview college work, build confidence in their readiness for college, and earn college credits that provide both an academic and a financial head-start on a college degree and other postsecondary opportunities. UConn ECE Instructors are high school teachers certified by the University. UConn ECE faculty foster independent learning, creativity, and critical thinking - all important for success in college and careers. Sacred Heart Academy offers UConn ECE courses in Biology, PreCalculus, Latin and French. To support rigorous learning, University of Connecticut academic resources, including library and online classroom access, are available to all UConn ECE Students.

ONESCHOOLHOUSE (formerly ONLINE SCHOOL FOR GIRLS)

Along with more than thirty girls’ schools nationally, Sacred Heart Academy is a consortium member of the OneSchoolHouse, a non-profit institution whose mission is to “provide the best education in a digital environment for girls.” This exciting addition to our academic program enriches learning opportunities for our students.

The benefits are many:

- Expanded course offerings;
- Enhanced global connections through online classroom experiences;
- An enhanced online setting that is especially created for girls and the ways they learn;
- Increased flexibility in scheduling; and
- Preparation for the online educational experiences our students will find in college and beyond

Juniors and seniors have the opportunity to discuss their plan to take an online course with the Assistant Principal especially if they would like it to count towards the credits required for graduation. Courses from OneSchoolHouse are listed on a separate OneSchoolHouse transcript – these are part of the student’s academic record but are not included in GPA calculations at Sacred Heart Academy.

Tuition for these courses is not covered by Sacred Heart Academy. Since we are an affiliate school, our students receive tuition discounts.

Full course descriptions can be found on the OneSchoolHouse website.

SHA’s course offerings for credit through OneSchoolHouse are:

- Advanced Mathematics: Multivariable Calculus and Differential Equations (**)
- AP Computer Science
- AP Environmental Science
- AP Human Geography
- AP Microeconomics
- AP Macroeconomics
- AP Music Theory
- Marine Science

(**) If a student has completed AP Calculus BC & AP Statistics, SHA will cover the tuition for this course.

ELECTIVE COURSES AND PRE-REQUISITES

The school reserves the right to cancel any elective class with insufficient enrollment.

Student qualification for courses will be evaluated at time of student’s course registration/request. A student may request placement in AP/Honors/Classes with pre-requisites in June after Final Report Cards have been posted. However, any upgrade requests at year-end will be based on availability.

For registration purposes, pre-requisites for ECE courses will be evaluated after Term 1.

SCHEDULE CHANGES AND/OR WITHDRAWALS

Course selections that are made in February for the following year may be changed until mid-June without penalty. After final grades are distributed, there will be a two-day period during which these changes may be made. These changes include course adds or drops related to pre-requisites. Any changes made after that time will be subject to a Schedule Change Fee.

No course changes are made during the summer months. Students must wait until the first cycle of the school year to make a schedule change.

Sacred Heart Academy does not allow students to change a course because of instructor preference. However, students may change a non-required course within the first cycle of each semester as long as the course has not reached its maximum enrollment. A parental signature and signatures of the teachers involved are required on the schedule change form along with the fee. Students may start or stop attending class only with a new schedule in hand.

Once the cut-off date has passed, permission to drop either a full year, non-required or semester elective is rarely granted, and only in extreme circumstances. The course name and grade will appear on the report card and transcript with a WD (withdrawn) in the appropriate column. Students do not receive partial credit for the time spent in the class. Once a transcript has been sent to a college as part of the college application process, the college will be notified in writing of any change in the applicant’s course load.

Any change request for a second semester class will only be allowed if it does not impact any full year classes.
COURSE DESCRIPTIONS

FRESHMAN TRANSITION PROGRAM

The freshman transition program is designed to give students the tools necessary to make the transition from middle school to high school successfully. Students gain a sense of empowerment and a feeling of self-worth, and consequently, are more motivated to learn.

In addition to the curriculum presented in the classroom, students are further supported by individual intervention through the Study Skills Resource Center. Students seeking extra help are welcome to make an appointment with the Educational Resource Coordinator.

005frtran Freshman Transition
GR 9 PASS/FAIL SEM
This semester course meets once a cycle during a student’s scheduled study rotation. The class size is small, allowing for individualized assessment and instruction based on each student’s needs. In addition to instruction in study strategies, time management, and note-taking, students are given assistance with communication skills and learning how to advocate on their own behalf. Peer Connectors (trained upper class students) help to facilitate many of the lessons.
Note: Successful completion of this course is required for progression into sophomore year.

INTERDISCIPLINARY STUDIES

For those students interested in integrating knowledge from a variety of subject areas, courses in this section are geared as electives in preparation for higher education.

001eth Bioethics
GR 10-12 QP 4.33 ½ CREDIT SEM
The promotion of human dignity in healthcare and life science is the very heart of bioethics. What can be learned from past mistakes where human dignity was violated? And what is the role of the Church in bioethics? This course examines and debates several bioethical controversies, both past and present, such as: the eugenics movement, the Tuskegee Syphilis Experiment, mandatory vaccination, stem-cell controversies, both past and present, such as: the eugenics movement, the Tuskegee Syphilis Experiment, mandatory vaccination, stem-cell research, cloning, and genetic testing/screening. Lectures, debates, reflections, and student presentations provide the format for the course.
Prerequisite: Biology (814 or 817)

009wrel World Religions
GR 10-12 QP 4.33 ½ CREDIT SEM
The desire for God is written on the human heart (Catechism of the Catholic Church #27). This course is a survey of the teachings of the major religions of the world and their relationship to the Catholic Church. The first half will explore the Western Abrahamic religions, focusing on non-Catholic Christianity, Judaism, and Islam. The second half will be devoted to the religions of the East, particularly Taoism, Buddhism, and Hinduism.

007int Honors Fundamentals of Philosophy (2022-23)
GR 11-12 QP 4.67 ½ CREDIT SEM
The unexamined life is not worth living! From the very beginnings of philosophy in ancient Greece thousands of years ago to today, serious thinkers have engaged what are often called the Big Questions: is there are God, and what can we know about Him? What is reality? How ought I live my life? Does truth exist, and can we know it? Is there life after death? These questions will be examined considering the teachings of great philosophers such as Socrates, Plato, Aristotle, Augustine of Hippo, Anselm of Canterbury, Thomas Aquinas, Rene Descartes, David Hume, and Immanuel Kant.
Prerequisite: Final GPA of 3.67 or higher.

BUSINESS AND COMPUTER TECHNOLOGY

The Business and Computer Technology Department provides opportunities for students to expand their knowledge of aspects of the business world, including technology, marketing, management, and personal finance. One-half credit is required for graduation.

115cmptrapp Computer Applications
GR 9 PASS/FAIL SEM
This first-semester course provides first-year students with the tools and skills necessary to utilize technology effectively. It begins with understanding the Acceptable Use Policy for Technology and an overview of computer applications in our one-to-one laptop initiative. This course will serve as an introduction to computer technology with topics including computer hardware, software, networking, information security, and the basics of computer science. The balance of this course concentrates on developing proficiency in current applications and technology through hands on experience and computational thinking.

156entre Entrepreneurship and Small Business Management
GR 10-12 QP 4.33 ½ CREDIT SEM
Throughout this hands-on course students develop the skills to effectively organize, develop, and manage their own business. These skills include idea generation, feasibility and risk assessment, marketing, management, customer service and financial projections. This course culminates with a Shark Tank - inspired exercise where students pitch their business concept to a team of professionals who will decide whether or not to invest in their idea.

157finance Personal Finance
GR 11-12 QP 4.33 ½ CREDIT SEM
This course explores the mathematics of personal and business matters with an emphasis on everyday decision making. Topics include budget analysis, banking, insurance, credit, taxes, real estate and investments. Students research a range of investment opportunities and learn the fundamentals of managing financial resources to achieve financial well-being.

192cspAP AP Computer Science Principles (Advanced Placement)
GR 11-12 QP 5.0 1 CREDIT YEAR
This full-year, rigorous, entry-level course introduces high school students to the foundations of modern computing. The course covers a broad range of foundational topics such as programming, algorithms, the Internet, big data, digital privacy and security, and the societal impacts of computing. This course follows Code.org's Computer Science Principles curriculum. Code.org is recognized by the College Board as an endorsed provider of curriculum and professional development for AP Computer Science Principles. AP exam fee applies.
Prerequisite: [4.0 average in recent Science (Yearlong or Two Semester courses) and Math Course] OR [3.67 average in recent Science and Math course AND 3.8 Final GPA for the year].
The English Department strives to provide students with a strong foundation in critical reading, analysis and writing through required courses that address grammar, vocabulary, composition and literature. Elective courses offer an opportunity to study a particular aspect of English, whether writing-based or literature-driven. In all English classes, students regularly use technology for research, writing, and presentations. Four credits are required for graduation.

**214engl Introduction to Literary Genres and Basic Composition**
GR 9  QP 4.33  1 CREDIT   YEAR
This course introduces students to the genres of fiction, non-fiction, drama, and poetry. It exposes students to the language of literature and teaches them how to read each genre critically. The course also fosters the development of writing skills, incorporates both critical and creative assignments, and includes grammar and vocabulary components.

**217engI Honors Introduction to Literary Genres and Basic Composition**
GR 9  QP 4.67  1 CREDIT   YEAR
This course is offered to students who have qualified based on their English scores on the entrance test. Like English I, this course introduces students to the genres of fiction, nonfiction, drama, and poetry; exposes students to the language of literature; and teaches them how to read each genre critically—but it does so in greater depth. The course also fosters the development of writing skills, incorporating both critical and creative assignments, and includes grammar and vocabulary components. Individual assignments/projects complement the material covered in class.

Prerequisite: A student may enroll in this class based on her performance on the high school entrance exam.

**228engII British Literature**
GR 10  QP 4.33  1 CREDIT   YEAR
This course examines masterpieces of British literature, surveying works from the Anglo-Saxon period through the modern era. In addition to developing grammar, vocabulary, and PSAT skills, students produce creative works consistent with the materials being studied and papers reflective of their maturing critical skills including an in-depth research paper.

Note: The successful completion of the research paper during sophomore year is required in order to advance to junior year.

**229engIII Honors British Literature**
GR 10  QP 4.67  1 CREDIT   YEAR
This course examines masterpieces of British literature, surveying works from the Anglo-Saxon period through the modern era. Students must produce an in-depth research paper on a work of British literature. In addition to developing grammar, vocabulary, and PSAT skills, students produce critical essays as well as creative expressions.

Prerequisites: 3.67 in English I
Note: The successful completion of the research paper during sophomore year is required in order to advance to junior year.

**234engII American Literature**
GR 11  QP 4.33  1 CREDIT   YEAR
This course examines masterpieces of American literature, surveying works from the Pre-Colonial period through the modern era. Writing, grammar, vocabulary and critical discussion skills are emphasized upon. Independent reading assignments and critical essays are completed throughout the year, culminating in the production of a 7-8 page research paper which conforms to MLA guidelines required for course credit.

Note: The successful completion of the research paper during junior year is required in order to advance to senior year.

**237engIIIH Honors American Literature**
GR 11  QP 4.67  1 CREDIT   YEAR
This course examines masterpieces of American literature, surveying works from the Pre-Colonial period through the twenty-first century. Writing, grammar, vocabulary and critical discussion skills are stressed. Independent reading assignments and critical essays are completed each quarter, culminating in the production of an 8-10 page, in-depth, critical research paper which conforms to MLA guidelines and cites strong textual evidence from a minimum of 7 sources. Successful completion of the research paper during junior year is required in order to advance to senior English.

Prerequisite: 3.67 in English II
Note: The successful completion of the research paper during junior year is required in order to advance to senior year.

**290langAP AP English Language & Composition (Advanced Placement)**
GR 11  QP 5.0  1 CREDIT   YEAR
Designed for students with a firm foundation in writing, this course prepares students for college writing courses by emphasizing the complex literacy of reading, writing, thinking, and speaking. Students will be introduced to the specific requirements and rigorous standards of academic writing, including essay format, voice, and organizational strategies. Students are expected to assume an active role in the reading and writing process, which regularly includes roundtable discussion, peer editing, and frequent revision. Students produce and revise essays throughout the year and, at the end of the course, create a portfolio of their work. AP exam fee applies.

Prerequisites: 4.0 in English II.

All seniors are required to take either 265 or 291.

**265wldlit World Literature**
GR 12  QP 4.33  ½ CREDIT   SEM
World Literature surveys a selection of short stories, drama, and poetry from around the world, including the Mediterranean, Continental Europe, Africa, the Far East, the Middle East, Latin America. Universal themes such as fantasy and imagination, friendships, love and romance, self-discovery, the individual and society, values and beliefs, war and peace, youth and age are explored. Students write a series of critical essays based on textual readings. The course continues the development of language art skills and vocabulary study of the previous years. Students are required to write an 8-page literature-based research paper following MLA guidelines.

**29litAP AP English Literature (Advanced Placement)**
GR 12  QP 5.0  1 CREDIT   YEAR
This course concentrates on comparative studies of famous pieces of literature which share theme, plot and/or other characteristics. Selections are chosen from different cultures, eras, and perspectives, and are discussed according to various schools of critical thought. The writing component includes genre studies, literary analyses and a 10-
Since the invention of the motion picture, the theater and the cinema have existed symbiotically. This course will examine different movements and periods beginning with the foundational figures of Ibsen and Chekhov. Through in-depth lectures, discussions, screenings, and performance, students will be immersed in ten significant modern plays placed in multiple contexts to enhance appreciation of individual achievement and their wider contributions to the development of modern drama. Students will share in the facilitation of discussions. A major assignment is to select an additional play from the works of such dramatists as O’Neill, Pirandello, Williams, Stoppard, Parks and others, and write a critical analysis relating the play to the contexts of modern cinema developed in the course.

Contemporary literature is literature written in our current time; come explore stories told in the 21st century. We will be discussing works around a central theme and explore what the literature says about life and culture today. Through discussion, critical reading and writing, and literary analysis, students will gain a deeper understanding of how literature, societal beliefs, and ideas influence and reflect life today. Texts may include The Housekeeper and the Professor by Yoko Ogawa, The Lowland by Jhumpa Lahiri, On Such a Full Sea by Chang-rae Lee. We may also read selected short stories by Helen Oyeyemi, Claire Keegan, and others.

In this course, students will learn about the practice of journalism and how it has shifted over the years. Students will also practice journalism; writing articles in a variety of styles for a variety of media, including blogs, memoir and newspaper. Students will also consider fundamentals like truth telling, fact checking, The First Amendment, diverse representation and bias, and how these affect the news. Students will be creating a portfolio which will count toward their assessment for the class and will be encouraged to publish through The Alethea and Prism.

The Fine Arts Department offers a course of study in the Visual Arts, Music, Drama, and Media Production. Students are encouraged to participate and learn in an active, artistic, and intellectual manner. A minimum of 1 credit is required for graduation.

This course is a survey of the main concepts associated with the study of art and music. Topics covered include art history and music theory, the vocabulary of music and art criticism, and the exploration of all styles of music and art from ancient to modern. The art component includes instruction in the use and understanding of music, drawing and painting techniques. In music, students will develop a working understanding of musical fundamentals, apply basic music terminology to the analysis of music, develop and refine listening skills, and participate in a variety of vocal and instrumental opportunities.

The Fine Arts Department offers a course of study in the Visual Arts, Music, Drama, and Media Production. Students are encouraged to participate and learn in an active, artistic, and intellectual manner. A minimum of 1 credit is required for graduation.

This course provides students with the skills to use a camera, alter, critique, and appreciate photography. It is taught from both technical and aesthetic perspectives. Students learn how to control the functions of a digital camera, create a balanced and interesting composition, and manipulate digital photographs using Adobe Photoshop. They will be expected to complete short- and long-term projects. Presentation of work through class critiques is emphasized.

Note: A digital camera is required.
364tvprod  TV Production
GR 10-12  QP 4.33  ½ CREDIT  SEM
TV Production introduces students to what it takes to create a daily TV show. Students will learn videography and some aspects of journalism. This course begins with the fundamental principles of communications and quickly moves to their application in audio/visual communications. It incorporates the technical aspects of audio, lighting, and full-motion digital video production. The course includes the production of the school’s daily news show Good Morning SHAmerica, as well as the making of short packages. Studio jobs are rotated so everyone is afforded an opportunity to work with and learn about sound, lights, graphics, anchoring, and directing, to name a few. In class, students learn about current trends in the media as well as creating projects to air on the morning show. In addition to its regular scheduled meeting time within the school day, this class meets every day before school from 7:40-8:10am.

Note: Enrollment is limited to 15 students.

327paint  Painting I
GR 11-12  QP 4.33  ½ CREDIT  SEM
This course is an introduction to painting, design and visual concepts. During their semester-long study, students learn to work with many painting media such as acrylic, watercolor and digital software. Students will study basic color theory, composition and painting techniques as well as work with a variety of subject matter. Students will explore various artists and their styles and techniques.

Prerequisite: Studio Art (325)

Note: Enrollment is limited to 18 students per class section.

367nvprod Narrative Video Production
GR 11-12  QP 4.33  ½ CREDIT  SEM
This course is offered for students who wish to learn and expand their skills using video cameras and digital editing software. Emphasis is placed on improving visual storytelling abilities and awareness. Students begin with a pitch and take the idea through all stages: brainstorming, storyboarding, scripting, lighting, camera movements, sound, and editing. In addition to producing their own short videos, students will analyze and discuss techniques used by greats in the industry. Participating students will finish the semester with polished, substantial narrative videos.

345portH  Honors Art Portfolio
GR 12  QP 4.67  ½ CREDIT  SEM
This course is designed for the student with strong drawing, painting and design skills and possible interest in continuing the study of art beyond high school. Especially suitable for highly motivated students interested in building an art portfolio for the college admissions process, student needs are assessed at the beginning of the class, and that assessment drives the content of the course. A substantial amount of work is required outside of class and on a daily classroom basis.

Prerequisite: [Studio Art (325) and Painting (327)] OR [4.33 in Studio Art (325)]. Note: Enrollment is limited to 18 students.

313multart  Multimedia Studies in Art
GR 11-12  QP 4.33  ½ CREDIT  SEM
In this skills-based course, students learn the fundamentals of creating artworks pertaining to two- and three-dimensional studies using mixed media. They use a variety of techniques and materials to complete several short-term and long-term projects. This class is intended to promote higher level thinking, helping students develop creative problem-solving skills necessary to create and execute their designs.

Note: Enrollment is limited to 18 students per class section.

MUSIC

351orch  Orchestra
GR 9-12  QP 4.33  ½ CREDIT  YEAR
Students of various levels of proficiency (beginner to advanced) are required to already own (or rent) and to know the rudiments of their instruments. Additional instruction is given to build an ensemble capable of playing musical literature of various styles and periods. Members are also given the opportunity to perform in small chamber ensembles. Scheduled performances include a Christmas and Spring concert.

Note: Students must meet either after school on Mondays from 2:15PM to 3:30 PM, or on Thursday from 7:00AM – 7:55AM. Occasionally, there are specially scheduled rehearsals. Instrumentalists must take this course for both semesters to obtain credit. Attendance is mandatory.

358chamchoirH (10,11,12)  Honors Chamber Choir
GR 10-12  QP 4.67  ½ CREDIT  SEM
Students in Honors Chamber Choir focus their study on a variety of advanced sacred and secular choral repertoires drawn from the Western art music tradition, world music, and popular songs. Through rehearsals and performance, students develop their vocal abilities, sight-singing skills, and sense of ensemble. Study culminates in major performances each semester at the Christmas and Spring Concerts as well as other venues.

Prerequisites: In order to enroll in this class, students must pass an audition, held in January prior to registration. There will also be additional auditions in the fall for the spring semester. Students may register for fall & spring semesters of this course.

363beginkey  Beginners Keyboard
GR 10-12  QP 4.33  ½ CREDIT  SEM
Designed as a course for beginners, students will use the keyboard to learn and understand the elements of basic keyboard playing. Students will be introduced to the foundational principles of notation, scales and keys, cadence patterns, chord classification and basic harmonic progressions as they gain keyboard skills.

Note: Class size is limited to 12

385bells Handbell Choir
GR 10-12  QP 4.33  ½ CREDIT  SEM
This course is designed as an introductory course for students who wish to learn and understand the elements of handbell choir. Students will also be introduced to the foundational principles of notation, scales and keys, cadence patterns, chord classification, and basic harmonic progressions. Course study will culminate with scheduled performances including the Christmas concert.

354shchoir (10,11,12)  Concert/Show Choir  (2022-23)
GR 10-12  QP 4.33  ½ CREDIT  SEM
The course emphasizes both voice and dance production. Through rehearsals and performance, students develop their vocal, sight-singing skills, dance and sense of ensemble. Choir members will participate in both a Christmas and spring concert as well as participate in local and state competitions. No audition is required.
The World Language Department requires entering students to take two consecutive years of study of the same language during their high school years. It is strongly recommended that students take three or four years of the same language. Five-year programs of study are offered in Latin, Spanish, and French with Advanced Placement courses in each year. Currently, four-year program of study is offered in Mandarin Chinese.

**SPANISH**

**413spI** Spanish I  
GR 9-11  
QP 4.33  
1 CREDIT  
YEAR  
This course focuses on the basic foundations of grammar with a development of listening, speaking, and reading skills for the student with limited or no previous knowledge of Spanish.

**424spII** Spanish II  
GR 9-12  
QP 4.33  
1 CREDIT  
YEAR  
This course continues to emphasize the basic skills of oral expression, reading, and writing through the use of the text and supplemental materials. New grammatical skills are introduced and class participation requires increased use of the Spanish language.

Prerequisite: Spanish I (413). Incoming freshmen or transfers may enroll in this class based on their performance on the language placement test given by the World Language Department.

**427spIII** Honors Spanish II  
GR 9-12  
QP 4.67  
1 CREDIT  
YEAR  
This course continues to develop vocabulary acquisition through oral expression, reading, and writing using the text and additional readings. Composition skills are stressed.

Prerequisite: 3.67 in Spanish I (413). Incoming freshmen or transfers may enroll in this class based on their performance on the language placement test given by the World Language Department.

**WORLD LANGUAGE**

**Drama**

**369theatre** Introduction to the Theatre I  
(2022-23)  
GR 10-12  
QP 4.33  
½ CREDIT  
SEM  
This course introduces both the acting and technical aspects of theatre. The class begins by developing concentration, awareness, characterization, and creativity through the use of improvisation, monologues and directing. Through a variety of experiences and exercises, students gain self-confidence, heighten self-awareness, improve presentational skills, and develop task analytical abilities. Techniques in elementary acting as well as the basic principles of performance including blocking, theatre etiquette, and stage business are rehearsed. Character development is introduced using script analysis. An introduction to safety rules as they apply to the basic scenic, lighting, property, costumes and makeup practices is also presented.

**368shax** Shakespearean Drama  
(2022-23)  
GR 11-12  
QP 4.33  
½ CREDIT  
SEM  
Four centuries after his death, Shakespeare and his plays continue to occupy a unique place in world literature, with readers and performers continuing to find them relevant and inspiring. In this course, students will read and explore 4 plays that Shakespeare wrote, examining them in their historical context and also as living works today. Additional texts may include works of Shakespeare’s contemporaries as well as recent plays, poems, films, and novels that were inspired by Shakespeare’s writings. This class has both a strong analytical and performance focus, ideal for literary and drama interests.

**French**

**416frI** French I  
GR 9-11  
QP 4.33  
1 CREDIT  
YEAR  
This course provides a basic foundation of grammar with development of listening, speaking, reading, and writing skills. It is intended for students with limited or no previous knowledge of French. The course incorporates a study of culture and the geography of the francophone world.

**426frII** French II  
GR 9-12  
QP 4.33  
1 CREDIT  
YEAR  
This course entails the completion of the basic principles of grammar, composition skills, a survey of Spanish culture, and a practical application of conversational skills.

Prerequisite: Spanish II (424 or 427).

**Spanish**

**434spIII** Spanish III  
GR 10-12  
QP 4.33  
1 CREDIT  
YEAR  
This course entails the completion of the basic principles of grammar, composition skills, a survey of Spanish culture, and a practical application of conversational skills.

Prerequisite: Spanish II (424 or 427).

**437spIIIH** Honors Spanish III  
GR 10-12  
QP 4.67  
1 CREDIT  
YEAR  
This course entails the completion and refinement of grammar principles and conversational skills. Aspects of Hispanic culture and literature are presented through selected readings.

Prerequisite: 3.67 in Spanish II (424 or 427).

**444spIV** Spanish IV: Conversation & Culture  
GR 11-12  
QP 4.33  
1 CREDIT  
YEAR  
This course is geared toward an integrated approach to the study of the language; designed to help students reach the Intermediate-High level of oral proficiency as defined by the American Council on the Teaching of Foreign Languages (ACTFL). This course seeks to create relevant and meaningful contexts in which students will use their language skills. Previously learned grammar skills will be reviewed in order to enable the students to converse, understand, read and write with precision. The Spanish /Hispanic cultures will be looked at through a literary lens.

Prerequisite: 2.67 in Spanish III (434 or 437).

**457splngAP** AP Spanish Language (Advanced Placement)  
GR 11-12  
QP 5.0  
1 CREDIT  
YEAR  
AP Spanish Language is offered on a sequential basis to juniors and seniors who have been recommended for the course after having completed Spanish III Honors or Spanish IV. The main objective of this course is to develop students’ interpersonal communication skills in Spanish and to prepare them for the AP examination in May. The students will have the opportunity to learn how to participate in conversations, to develop cultural awareness and to prepare them to use the language in a formal and informal setting. All the activities relate to five goal areas outlined in the Standards for Foreign Language Learning in the 21st Century: Communication, Comparisons, Cultures, Connections, and Communities. The course will include a variety of academic and cultural topics and the use of authentic materials. All the course materials are written in Spanish. Students always interact in the target language with each other and with the instructor. AP exam fee applies.

Prerequisite: 4.0 in Honors Spanish III (437) or 3.67 in Spanish IV (444 or 445).

**Latin, Spanish, and French with Advanced Placement courses in each year. Five-year programs of study are offered in Latin, Spanish, and French with Advanced Placement courses in each language. Currently four-year program of study is offered in Mandarin Chinese.**
Students continue to develop basic skills with more emphasis on oral expression, reading and writing. The course stresses vocabulary acquisition to enable students to speak with greater fluency.

**Prerequisite:** French I (416) Incoming freshmen or transfers may enroll in this class based on their performance on the language placement test given by the World Language Department.

### 429frIIH  Honors French II
**GR 9-12  QP 4.67  1 CREDIT  YEAR**

Students continue to develop basic skills with more emphasis on oral expression, reading, and writing. Vocabulary acquisition is stressed as well as composition and fluency in everyday speaking situations. Supplementary readings enhance comprehension.

**Prerequisite:** 3.67 in French I (416). Incoming freshmen or transfers may be invited to enroll in this class based on their performance on the language placement test given by the World Language Department.

### 436frIII  French III
**GR 10-12  QP 4.33  1 CREDIT  YEAR**

This course entails the completion of grammar requirements, further development of oral expression and introduction to composition and literature. A study of Francophone cultures enhances the students’ appreciation of the French language and French-speaking peoples.

**Prerequisite:** French II (426 or 429)

### 439frIII  Honors French III
**GR 10-12  QP 4.67  1 CREDIT  YEAR**

This course completes the study of French grammar and continues to improve the four basic skills: listening, speaking, reading, and writing. Moreover, the study of a variety of French and Francophone cultural topics through history, literature, film, music and current events will complement the review of language structures and linguistic skills. Regular activities and assessments include: reading assignments, oral presentations, compositions, class discussions, grammar exercises, quizzes and exams. The course is tailored for the students of French who want to continue their learning in Honors French IV or AP French the following year.

**Prerequisite:** 3.67 in French II (426 or 429)

### 447frIVH  Honors French IV UCONN ECE
**GR 11-12  QP 4.33  1 CREDIT  YEAR**

**UCONN COURSE:** 3 college credits (FREN 3250)

This course is designed for students who have satisfactorily completed the requirements of French III and wish to continue their study through the analyses of French movies. As an ECE course, this course is an intense study of oral French and involves learning of oral techniques of communication (in conjunction with weekly topics of conversation) associated with various francophone cultures as well as rigorous and active practice through dialogues, interviews, round tables, and oral reports.

**Prerequisite:** 3.67 in French III (436 or 439)

*Note: All students enrolled in this course will have mandatory concurrent enrollment in the University of Connecticut Early College Experience Program that allows students to earn 3 college credits. UConn will bill students separately for UConn ECE tuition in the fall.*

### 449fr AP French (Advanced Placement)
**GR 11-12  QP 5.0  1 CREDIT  YEAR**

The AP French language course is the final level of study of French at the school. The purpose of this course is to prepare the students for the French AP examination in May. The goal is to reinforce and refine the skills acquired during the previous years (listening, reading and writing), as well as to broaden the students’ understanding of French-speaking cultures around the world and major issues through different media (literature, music, films, magazines). The class is conducted exclusively in French and students are strongly encouraged to answer in French. AP exam fee applies.

**Prerequisite:** 4.0 in Honors French III (439) or 3.67 in French IV (446 or 447).

### Classical Language: LATIN

#### 415lat  Latin I
**GR 9-11  QP 4.33  1 CREDIT  YEAR**

This course provides the foundation for the acquisition of the Latin language. Students develop the basic elements of Latin grammar, learning both vocabulary and the rules of Latin syntax. Proficiency is developed through memorization, drills and extensive practice in translation and composition from Latin to English and vice versa. Students also learn elements of Roman culture, including geography, religion, and elements of daily life.

### 428latIII  Honors Latin II
**GR 9-12  QP 4.67  1 CREDIT  YEAR**

In this course, students continue to develop their language skills by learning the more complex elements of Latin grammar, while further developing their vocabulary. Through the use of drills, translation, and composition, students solidify their knowledge and enhance their understanding. In addition, students continue to learn about the Roman world, focusing particularly on politics, architecture, and various social dynamics.

**Prerequisite:** 3.33 in Latin I (415) OR departmental recommendation.

#### 450latIII  Honors Latin III
**GR 10-12  QP 4.67  1 CREDIT  YEAR**

This course introduces students to the remaining, most challenging Latin grammatical structures and transitions students into the application of their grammatical knowledge to reading unadapted Roman literature. Emphasis is placed on developing translation skills and refining their ability to understand the literary aspects of Latin texts by reading selections from the works of a variety of Roman authors. Attention is also given to the historical and cultural backgrounds of the works studied, metrics, rhetorical devices, and textual analysis. Latin III students will typically read from the works of Pliny the Younger, Catullus, Ovid, Caesar, and Petronius, among others.

**Prerequisite:** 3.33 in Honors Latin II OR departmental recommendation

#### 452latIVH Honors Latin IV: Topics in Latin Literature
**GR 11-12  QP 4.67  1 CREDIT  YEAR**

In this course, students continue to develop facility with translating and analyzing Latin literature, as well as deepening their understanding of Roman culture and perspectives, through an exploration of select topics, such as Women in the Roman World, Politics and Corruption, Myth and Legend, Heroes and Heroism, and Race and Ethnicity. Focusing on various authors and works from both the Republican and Imperial periods, students will consider and discuss the ways in which these topics are portrayed at different points in Rome’s history and how those portrayals reflect Roman social values and conceptions of Roman identity. Emphasis is placed on the importance of contextualization, the development and use of critical analysis, and the reading of and engagement with secondary scholarship.

**Prerequisite:** 3.33 in Honors Latin III (450) OR departmental recommendation.
**CHINESE**

**411chin Mandarín Chinese I**
GR 9-11  QU 4.33  1 CREDIT  YEAR
This course is an introduction to the study of Chinese language and culture, providing a solid foundation in the basic skills of the Mandarin phonetic system (pinyin), reading, oral expression, writing, and tying simplified Chinese characters. Various projects and hands-on activities will allow students to explore Chinese culture, including holidays, food, and calligraphy. Class is supplemented by online activities such as web-based games and hands-on learning via physical activities.

**421chinII Mandarín Chinese II**
GR 9-12  QU 4.33  1 CREDIT  YEAR
In Mandarin Chinese II, students will build upon the skills they have learned in Mandarin Chinese I. In addition to learning more complex grammar and sentence patterns, students will continue to learn more vocabulary, work with longer dialogues and do oral presentations. Class participation requires increased use of the Chinese language. Class is supplemented by a wide variety of audio and video materials, such as online activities and educational games.

**431chinIIIH Honors  Mandarin Chinese III**
GR 10-12  QU 4.67  1 CREDIT  YEAR
Chinese will be spoken 80% of the time in this class. The third year of Chinese study is designed for accelerated students who have attained a higher mastery of Chinese. The course will not only further hone their speaking and listening skills but also focus on increasing their ability to read and write. Class is supplemented by online and real-life authentic materials with engagement classroom activities. Students will have opportunities to connect with peers and guest speakers in class or online.

**484lat AP Latin (Advanced Placement and UConn ECE)**
GR 11-12  QU 5.0  1 CREDIT  YEAR
**UConn COURSE:** 3 college credits (CAMS 3102)
Students continue to develop facility with analyzing, interpreting, and translating Latin literature by closely reading selections of Julius Caesar’s *de Bello Gallico* and of Vergil’s *Aeneid*. Students study the mythological, historical, and cultural background of the works, the literary techniques of the authors and secondary scholarship in preparation for taking the Latin Advanced Placement Exam in May. In addition to extensive Latin translation for the AP syllabus, students will also read the much of the two works in English, and will gain experience sight reading passages from other authors. The course is fast-paced and requires a high level of skill and interest in the Latin language and literature. Reading of Latin texts in the original AP exam fee applies.

**Prerequisite:** 3.67 in Honors Latin III (450) or 3.67 in Honors Latin IV ECE (452).
**Note:** All students enrolled in this course will have mandatory concurrent enrollment in the University of Connecticut Early College Experience Program that allows students to earn 3 college credits. UConn will bill students separately for UConn ECE tuition in the fall.

**MATHEMATICS**

The Mathematics Department requires all students to take four years of mathematics. Students who take Algebra I or Honors Algebra I as freshmen and Geometry as sophomores have the opportunity to take Calculus on the Honors or AP level as seniors in a program for enrollment in a course entitled Honors Algebra II/Pre-Calculus as juniors. Another option is Algebra I, Geometry, Algebra II and Pre-Calculus on the Honors or Standard level.

**515algI  Algebra I**
GR 9  QU 4.33  1 CREDIT  YEAR
This course covers the real number system and its properties, polynomials, factoring, algebraic fractions, fractional equations, functions and their domain and range, solving linear inequalities, linear functions and their graphs, linear equations and systems, initial concepts of quadratic equations, problem solving with linear and quadratic equations, calculator representations of solutions for linear and quadratic equations, proper graphing techniques for the Cartesian co-ordinate system.

**517alg III  Honors Algebra I**
GR 9  QU 4.67  1 CREDIT  YEAR
This course covers the same topics as Algebra I (515), but word problems of a higher difficulty level are presented, calculator applications are included, as well as theoretical explanations of greater depth. This course will focus on the four representations of a function which are verbal, graphical (which includes detailed graphing rules for the representation of data on the Cartesian co-ordinate system), numerical and analytical.

**524geom  Geometry**
GR 10  QU 4.33  1 CREDIT  YEAR
This course is an axiomatic approach to Euclidean geometry. Logical reasoning is used to explore the relationships between lines, planes, triangles, and polygons. Trigonometry, coordinate geometry and exploration of solid figures are also studied; theory and application are equally considered. The course has a strong integration with Algebra I.

**Prerequisite:** Algebra I (515 or 517)

**527geomH  Honors Geometry**
GR 9-10  QU 4.67  1 CREDIT  YEAR
This course is an in-depth axiomatic approach to Euclidean geometry. Topics include parallel lines and planes, triangles, polygons, circles, trigonometry, constructions, solid figures, and coordinate geometry. Abstract reasoning is developed in an advanced use of theory and application. The course has a strong integration with Algebra I.
This course stresses the further advancement of the structure of Algebra and the development of computational and problem-solving skills as well as critical thinking. Topics include complex numbers, polynomial and rational expressions, the concept of functions and relations and their domain and range, linear and quadratic equations and their solutions both analytically and graphically, solutions for polynomial inequalities, radicals, exponents, inverse functions, synthetic division, rational functions and relations, difference quotient, formulae for circles, midpoints and distance, and detailed graphing rules for the representation of data on the Cartesian co-ordinate system. Technology is used to foster impact on students’ learning and understanding of real-world math problems.

Prerequisite: Algebra I and Geometry (524 or 527)

This course follows the same structure of Algebra II with additional emphasis on the applications of theorems and solving math modeling problems both analytically and graphically. This course stresses a fast paced, in-depth development of computational and problem-solving skills as well as critical thinking. Topics include complex numbers, polynomial and rational expressions, the concept of functions and relations and their domain and range, linear and quadratic equations and their solutions both analytically and graphically, solutions for polynomial inequalities, radicals, exponents, inverse functions, synthetic division, rational functions and relations, Remainder Theorem, Factor Theorem, Intermediate Value Theorem, Difference Quotient and average rate of change, formulae for circles, midpoints and distance, and detailed graphing rules for the representation of data on the Cartesian co-ordinate system.

Prerequisite: [3.67 in Algebra I (515/517) and 3.67 in Geometry (524/527) in Grade 10] OR 3.67 average in Algebra I & Geometry OR 3.67 in Honors Geometry (527) in Grade 9

This course is designed to allow freshman and sophomores currently in Geometry or Honors Geometry to enroll in Calculus, AP Calculus and any other advanced math class as juniors and seniors. Sophomores who studied Algebra I or Honors Algebra I as freshmen may enroll in this class to prepare for Calculus or AP Calculus as seniors. Present freshman Geometry students may enroll in this class as sophomores to prepare for Honors Calculus as juniors and BC Calculus as seniors. The focus of this course is an extensive and in-depth study of functional analysis, mathematical analysis and analytical geometry. This integration of Algebra II, Trigonometry, Functional Analysis and Analytical Geometry intends to broaden the students’ mathematical background and provide the mathematics needed for success in Calculus. Graphing calculators will be used for graphical investigations and explorations hence a TI83+ or TI84+C Silver edition graphing calculator is required.

Prerequisite: [4.0 in Algebra I (515/517) in Grade 9 and 4.33 in Geometry (524/527) in Grade 10] OR 4.33 in Honors Geometry (527) in Grade 9.

This course is an integration of an intensive study of trigonometry, geometry, and advanced algebra intended to broaden the student’s mathematical background prior to the study of calculus. This course also includes an introduction to probability and counting problems. The three fundamental areas of functional analysis, mathematical analysis and analytic geometry are investigated in depth through the use of a myriad of technological aids such as the overhead graphing calculator, and digital lessons. Each student is required to have either a TI83+ or TI84+C graphing calculator since extensive use of graphing technology is incorporated as an investigative tool.

The ECE component is integrated in the second semester, where problem solving and reasoning skills are developed in an interactive setting while covering voting methods, apportionments, mathematics of finance, counting, probability and graph theory.

Prerequisite: 4.0 in Algebra II (534 or 537) or Honors AlgII/PreCalc (539) or PreCalc (546/547) or Intro. to Stats (549) or AP Calc AB (593) or Advanced Math (551) and Trigonometry (552) combination.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>548calc</td>
<td>Calculus</td>
<td>1</td>
<td>This course is designed for students who want to have preparation for and experience with calculus especially those planning to enter fields of medicine, nursing, business, economics, management, and the social sciences. The course focuses on the development of conceptual understanding of real-life situations involving change, so the material is data driven and technology based. Topics include functions and linear models, non-linear models, rates of change, Derivatives, analysis of change, optimization, Related Rates, Limits, and Integration. This course covers all Calculus AB topics in a one year, two semester course as opposed to the fast paced UCONN ECE AP Calculus which covers an entire year of UCONN recommended Calculus topics by January and then covers all AP Exam Calculus topics and practice for second semester. Extensive use of graphing technology is incorporated hence a TI83+ or TI84+C Silver edition graphing calculator is required. Prerequisite: 3.0 in 546 or 547 or 539</td>
</tr>
<tr>
<td>549stat</td>
<td>Introduction to Statistics</td>
<td>1</td>
<td>This course serves either as a transition between Algebra II and Pre-Calculus (546) or as the final course in the math sequence. The importance of Statistics in both academic and personal settings has grown at a tremendous rate recently. Intro to Statistics is designed to introduce fundamental statistical knowledge that students will be able to use in college and throughout their lives. Topics covered in this course include: data collection, regression, probability, sampling distributions, and inference. The student who successfully completes this course will have the tools for collecting, analyzing, and interpreting data in academic settings and her everyday life. Required: TI83+ or TI84+C Silver edition Graphing Calculator. Prerequisite: Algebra II (534 OR 537) or Advanced Math (551) and Trigonometry (552)</td>
</tr>
<tr>
<td>551advmath</td>
<td>Advanced Math</td>
<td>1</td>
<td>This course is designed for students who want to complete their fourth-year math requirement for graduation and adequately prepare for college math placement tests prior to matriculation in their fall semester of college. This course will help students acquire a firm foundation in functional analysis and prepare them for future courses in Calculus, Business Calculus and finite mathematics. Students will be shown how to model and solve real world problems, develop problem solving skills and exercise critical thinking skills while working in an interesting setting filled with real world, data driven problems. Extensive use of graphing technology is incorporated hence a TI84+C Silver edition graphing calculator is recommended. Prerequisite: Algebra II Note: Students taking Advanced Math for their Final Math credit must register for Trigonometry as well.</td>
</tr>
<tr>
<td>552trig</td>
<td>Trigonometry</td>
<td>½</td>
<td>This course is designed for seniors who want to complete their fourth-year math requirement for graduation and adequately prepare for college math placement tests prior to matriculation in their fall semester of college. This course will help students acquire a firm foundation in Trigonometry and apply their knowledge to unique mathematical applications. The main focus of this course will be the study and application of periodic functions that enable us to model phenomena that occur in cycles. Students will be shown how to model and solve real world problems that incorporate a direct application of Trigonometry. This solid Trigonometric foundation will prepare students for future courses in Calculus, Engineering, Navigation, Music Technology, Meteorology and Architectural studies. Extensive use of graphing technology is incorporated hence a TI84+ CE graphing calculator is recommended. Prerequisite: Algebra II and Advanced Math.</td>
</tr>
<tr>
<td>593calcAP</td>
<td>AP Calculus AB (Advanced Placement and UConn ECE)</td>
<td>1</td>
<td>This course provides an intuitive understanding of the concepts of calculus, and experience with its applications and methodology. Course content generally follows the AP syllabus for Calculus AB, which is more extensive, and of greater breadth and depth than the 590 Calculus curriculum. This course includes the study of elementary functions, limits, the derivative and its applications, and integral Calculus including anti derivatives and their applications. The TI83+ or TI84+C graphing calculator is required. This challenging course is meant only for the serious math student. AP exam fee applies. Prerequisite: 4.0 in 593/546/547. There is an ECE change fee if a qualified student requests to be added in June. Note: All students enrolled in this course will have mandatory concurrent enrollment in the University of Connecticut Early College Experience Program that allows students to earn 4 college credits for the year. UConn will bill students separately for UConn ECE tuition in the fall and spring.</td>
</tr>
<tr>
<td>594calcAP</td>
<td>AP Calculus BC (Advanced Placement)</td>
<td>1</td>
<td>Calculus BC is a fast-paced full-year course in the calculus of functions of a single variable. It includes all topics covered in Calculus AB plus additional topics. Both the AB and BC courses represent college-level mathematics for which most colleges grant advanced placement and college credits. The Calculus BC exam has a Calculus AB sub-score so the students enrolled in this class will be receiving two AP scores. The content of Calculus BC is designed to qualify the student for college placement and credit in Calculus II, which is one course beyond that granted for Calculus AB. AP exam fee applies. Prerequisite: 4.0 in 593 or 548</td>
</tr>
</tbody>
</table>

**PHYSICAL EDUCATION**

The Physical Education courses are designed to develop an understanding of the health-related components of physical fitness: cardiovascular fitness, muscle strength and endurance, flexibility, and body composition as they relate to a healthy life style along with an emphasis on the importance of health and wellness. The Physical Education classes encourage a positive self-image in all students. One credit is required for graduation.

<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>615phyedl</td>
<td>Physical Education I</td>
<td>½</td>
<td>This course is designed to develop health-related physical fitness and those mentioned in the above introduction. Students will participate in fitness and circuit training as well as activities suitable to the season. Mental and social health and wellness activities are incorporated into the course.</td>
</tr>
<tr>
<td>635phyedlII</td>
<td>Physical Education II</td>
<td>½</td>
<td>This course is designed to reinforce the importance of health-related physical fitness and those skills mentioned above in the introduction by participation in fitness, circuit training, group activities typical for the</td>
</tr>
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season and peer instruction. Current health issues are incorporated into this course.

Prerequisite: Physical Education I (615)

651peast  Physical Education Assistants
GR 12  QP 4.33  ½ CREDIT  SEM
A senior with an interest in pursuing a Physical Education career may elect to be an assistant in a PE I class. Responsibilities may include attendance, group facilitating and fitness charting. Students are required to develop lesson plans for physical, mental and social health activities, as well as keep journals of class activities. Prerequisite: PE II and Departmental Approval.

Note: This course does not fulfill the PE II requirement.

THEOLOGY

The Theology Department requires all students to complete four years of the required or core theology courses, a retreat experience each year, and a minimum of 25 hours of Christian Service. The theology curriculum provides students with the opportunity to participate in the sacramental and liturgical life of the Church. The Theology of the Body for Teens, based on the teachings of Pope John Paul II, is integrated into the scope and sequence of the four year theology curriculum. Each course develops and enhances the student’s relationship with God through different types of prayer.

714theol I  Theology I: Our Catholic Faith
GR 9  QP 4.33  1 CREDIT  YEAR
The freshman curriculum provides an introduction to the life and teachings of Jesus Christ, the Sacraments, a brief history of the Catholic Church, an introduction to Sacred Scripture, as well as an overview of the charism of the Apostles of the Sacred Heart of Jesus. The curriculum follows the four pillars of the Church as outlined in the Catechism of the Catholic Church and includes a study of Pope Saint John Paul II’s theology of the body, in order to introduce students to the dignity and meaning of the human body and sexuality. The freshman curriculum incorporates a segment on devotion to the Sacred Heart and the charism of the Apostles of the Sacred Heart of Jesus.

724theol II  Theology II: Scripture
GR 10  QP 4.33  1 CREDIT  YEAR
Theology II offers a survey of the scriptures of Judeo-Christian tradition, highlighting the content of Genesis and Exodus, the Deuteronomical History, the Prophets, Wisdom, the four Gospel portraits of Jesus, the Acts of the Apostles, and the letters of St. Paul. Students develop an appreciation for the Jewish roots of the Christian faith as well as the relevance of the Bible for their personal faith life and the liturgical life of the Church. Intended outcomes of the course are to foster a growing love for the Bible as a valuable companion in students’ lives.

Service Requirement: In order to receive credit for Theology II and advance to junior year, 25 hours of service must be completed by May 1 of sophomore year.

734theol III  Theology III: Conscience Formation & Catholic Social Teaching
GR 11  QP 4.33  1 CREDIT  YEAR
Theology III exposes the adolescent to the major principles and doctrines of the Catholic tradition, with focus on conscience formation, morality, and Catholic Social Teaching. The message of the Gospels is viewed in connection with the active response required of Christians called to discipleship. Special attention is given to the principles of human dignity and the common good and how these relate to current social problems in American society and the global community. The doctrine of the Mystical Body of Christ is emphasized through the principle of solidarity with the poor and marginalized. The course provides a method of moral decision-making through critical thinking to help students form a Christian conscience and to guide them in making moral choices in response to the moral issues facing the Christian in the 21st century.

744theol IV  Theology IV: Life in Christ
GR 12  QP 4.33  1 CREDIT  YEAR
This course serves as a culmination, drawing upon all major themes of This course is a culmination, synthesizing all major themes of freshman, sophomore, and junior theology to prepare students to live the Christian life as adults. Students investigate the importance of integrating more fully a Christ-like attitude of love and its implications for personal discernment. This course seeks to enhance a student’s relationship with God through a deeper exploration of prayer, Ignatian spirituality, vocational discernment, the redemptive nature of suffering, and discipleship.

SCIENCE

The Science Department requires all students to complete a minimum of 3 credits in science for graduation, but students are encouraged to take 4 (or more) credits. These must include Core courses, Biology and Chemistry.

814bio  Biology
GR 9  QP 4.33  1 CREDIT  YEAR
This is a basic course in life sciences for the college bound student. The approach is from the perspective of molecular biology and focuses on the units of life – cells, genes and the biochemical processes therein.

817bioH  Honors Biology
GR 9  QP 4.67  1 CREDIT  YEAR
This lab-oriented course offers an in-depth analysis of the molecular and biochemical processes that characterize living organisms. Scientific article analysis and a class research project are used to supplement class materials.

Prerequisite: A student may enroll in this class based on performance on the high school entrance exam.

834chem  Chemistry
GR 10  QP 4.33  1 CREDIT  YEAR
This course stresses abstract reasoning, mathematical analysis, and the investigation of chemical systems. Topics include atomic theory, structure of matter, periodicity, bonding, nomenclature and chemical reactions. Laboratory experience accompanies and supports conceptual material.

837chemH  Honors Chemistry
GR 10  QP 4.67  1 CREDIT  YEAR
This course includes an intensive study of fundamental theoretical and experimental principles, stressing inductive reasoning in the investigation of chemical systems. Topics studied include those of 834chem plus acids/bases, solution concentrations and solubility. Mathematical applications of chemical concepts and laboratory
experience form an essential part of this course. An independent research project is required.

Prerequisites: 3.67 in Algebra I (515 or 517) AND 3.67 in Biology (814 or 817)

895 genes  Human Gene Discovery Laboratory
GR 10  QP 4.33  ½ CREDIT  SEM
In this introductory course, students investigate a human disease gene as a class laboratory project while they research, using Government websites. The entire semester consists of continuous biotechnology experiments, done collaboratively in a problem-solving format, which develop basic research skills and incorporate the use of specialized lab equipment.

Note: Human Gene Discovery (895) is recommended for those who plan to take AP Biology (890).

848engdes Engineering Design
GR 10-12  QP 4.33  ½ CREDIT  SEM
Engineers solve problems using knowledge of science, mathematical and physical models, and a creative and iterative process. The engineering discipline includes designing, testing and analyzing possible solutions to benefit society. This is a project-based course focused around designing and optimizing innovative solutions and presenting the product of this work to peers. Students may explore fast growing engineering fields such as material science, environmental concerns, electronics/computer design and bio-mechanical engineering. Students will use the engineering process to complete both individual and group design projects at a level appropriate to their grade level and resources.

Prerequisite: 3.0 in recent full year Math and Science courses.

852microbio Microbiology
GR 10-12  QP 4.33  ½ CREDIT  SEM
This course surveys microorganisms that cause human infection: bacteria and archaea, protozoans, fungi, viruses and prions. The study compares common diseases of the human body, their natural defense mechanisms, and the various anti-microbial drugs administered as treatment. The laboratory exercises involve microscopy and experiments with non-pathological organisms readily used in educational environments.

856forens Forensic Science
GR 11-12  QP 4.33  ½ CREDIT  SEM
This lab-oriented course explores the applications of biology, chemistry and physics to the investigation of crime. Topics and labs include crime scene investigation, hair and fiber analyses, fingerprinting, microscopy, forensic botany, forensic anthropology, and DNA profiling. Case studies, cold cases, and current events in criminal investigation will also be included.

839chemanl Chemical Analysis
GR 11-12  QP 4.33  ½ CREDIT  SEM
This course supplements Chemistry and further prepares students for college chemistry. Topics include aqueous solutions, gas laws, nuclear chemistry and thermodynamics. Regular laboratory work reinforces the concepts and provides experience in recording data and writing laboratory reports.

Prerequisite: Chemistry.

865gen Genetics
GR 11 - 12  QP 4.33  ½ CREDIT  SEM
This semester course covers classical and molecular genetics. It presents an integrated approach to the study of genes (genotypes) and how mutations (alterations) therein, can have profound effects on proteins (phenotypes). The course also includes an introductory unit on forensics that serves to highlight the importance of DNA in modern day criminal investigations.

859a&p Anatomy and Physiology
GR 11-12  QP 4.33  ½ CREDIT  YEAR
This course covers classical and molecular genetics. It presents an integrated approach to the study of genes (genotypes) and how mutations (alterations) therein, can have profound effects on proteins (phenotypes). The course also includes an introductory unit on forensics that serves to highlight the importance of DNA in modern day criminal investigations.

861a&ph Honors Anatomy and Physiology
GR 11-12  QP 4.67  1 CREDIT  YEAR
This course offers more intensive study of the structure and function of the human body. Gross to microscopic anatomy will be studied in light of physiological function. Heavy emphasis will be given to the cellular and molecular bases of physiology. Clinical case studies, virtual labs, and dissections will supplement the class activities.

Prerequisites: 3.67 in Biology (814 or 817)

844physics Physics
GR 11-12  QP 4.33  1 CREDIT  YEAR
This laboratory course is a hands-on inquiry-based exploration of introductory topics in physics. Always focused on making connections between knowledge of science and its impact on our lives, the study of physics uses multiple pathways of scientific reasoning with specific emphasis on mathematical-analytical problem solving and conceptual and physical modelling to explore force and motion, energy & momentum, with optional topics that may include gravitation, waves, sound, electricity and magnetism.

Prerequisites: 3.0 in Algebra II (534, 537, or 539)

898biotecH Honors Biotechnology Research Project
GR 11-12  QP 4.67  1 CREDIT  YEAR
In this laboratory course the class works as a research team to study a gene of their choice. The class starts by extracting DNA from an organism, then amplifying and sequencing the gene of interest. The class designs their own experiments, masters the skills of PCR, purification and quantitation, automated sequencing, and bioinformatics. After analysis, the class prepares a scientific poster as they get ready to present their research to scientists such as those at Columbia University, New York. The class has also been submitting the results to GenBank which is NCBI’s open access database of nucleotide sequences – used by scientists from all over the world. At present, we have 32 sequence submissions in GenBank.

Prerequisite: 3.67 in a previous full-year science course.

890bioAP AP Biology (Advanced Placement and UConn ECE
GR 11-12  QP 5.0  1 CREDIT  YEAR
UConn COURSE: 8 college credits (BIOL1107 & 1108)
This college course explores in depth the biological concepts learned in the previous biology course: cell and molecular biology, evolution and natural selection, genetics, classification, and populations. This course is highly recommended for students planning to major in sciences or the health professions. AP exam fee applies. Additional lab time may be required and will be discussed at the beginning of school year.

Prerequisites: Biology and Chemistry; 4.0 average in Biology (814 or 817) OR [3.67 in Biology (814 or 817) and a 4.0 in at least one from 859/861/892/894/898] OR [3.67 in Biology (814 or 817) and a 4.0 in at least two courses from 856/852/865/895]. Students who did not have a 4.0 in Biology must meet the pre-reqs at the time of course enrollment.
Note: All students enrolled in this course will have mandatory concurrent enrollment in the University of Connecticut Early College Experience Program that allows students to earn 8 college credits for the year. UConn will bill students separately for UConn ECE tuition in the fall and spring.

892chemAP  AP Chemistry (Advanced Placement)
GR 11-12  QP 5.0  1 CREDIT  YEAR
This college-level course expands on the principles and techniques learned in the first year of chemistry. An emphasis will be placed on matter, kinetic theory of gases, chemical equilibria, chemical kinetics and thermodynamics. Students wishing to major in science, engineering, health professions or who must take chemistry in college are strongly encouraged to take this course. Additional lab time may be required and will be discussed at the beginning of school year. AP exam fee applies.

Prerequisite: [4.0 in Chemistry (834 or 837)] AND 3.67 in math OR [3.67 in Chemistry (834 or 837) AND 3.8 Overall GPA].

894physAP  AP Physics 1 (Advanced Placement)
GR 11-12  QP 5.0  1 CREDIT  YEAR
This is a course in first year Algebra-based physics at the college level. A high level of confidence in mathematical reasoning and processes is necessary throughout the course. Multiple pathways of scientific reasoning and modelling are used to explore topics including: Newtonian mechanics, momentum and energy, rotational kinematics, mechanical waves and sound, electrostatics and electric circuits. Additional lab time will be required and the scheduling will be discussed with the class at the beginning of the school year. AP exam fee applies.

Prerequisite: 4.0 average in Biology (814, 817) and Chemistry (824, 834); Completed Honors AlgII/Pre-Calc(539) or Completed Pre-Calculus (546 or 547) with a 4.0 final grade average.

860astron  Introduction to Astronomy (2022-23)
GR 11-12  QP 4.33  ½ CREDIT  SEM
This course is a hands-on, inquiry-based exploration of Astronomy. Using online simulations, computer-animated planetariums and in-class laboratories, course will study the Earth’s place in our Solar System, motion of stars, planets and constellations, seasons, and the structure of the Universe. Project based studies are used to look at advanced topics in astronomy including time travel, black holes, expansion of the universe, space travel and technologies.

SOCIAL STUDIES

The Social Studies Department requires students to complete 3 credits in Social Studies. These include Ancient Civilizations, Western Civilization, U.S. History, and U.S. Government. The Social Studies curriculum provides students with a broad knowledge of the past and skills in the critical process of gathering, analyzing, and interpreting historical information.

915anciev  Ancient Civilizations
GR 9  QP 4.33  ½ CREDIT  SEM

934wiev  Western Civilization
GR 10  QP 4.33  1 CREDIT  YEAR
This course is a study of major European events and movements from the Middle Ages through modern times. In addition to class-work, students prepare oral presentations and independent writing assignments.

937wievH  Honors Western Civilization
GR 10  QP 4.67  1 CREDIT  YEAR
This course covers major events, key trends, and progressive issues in history from the Middle Ages through modern times. Students are expected to read primary source materials, write analytical papers, and recognize the significance of important dates.

Prerequisite: 3.67 in Ancient Civilizations (915).
NOTE: If 915 is taken in Term 2, the student must have a 1st Semester overall GPA of 3.67 or higher in order to register. The 915-based pre-req will be re-checked at year-end.

975eurhisAP  AP European History
GR 10  QP 5.0  1 CREDIT  YEAR
This course focuses on developing students’ abilities to think conceptually about European history from approximately 1450 – the present and apply historical thinking skills as they learn about the past. Students read and analyze primary source documents and write analytical research papers. AP exam fee applies.

Prerequisite: 4.0 in Ancient Civilizations (915) AND a 4.0 in Introduction to Literary Genres and Basic Composition (214 or 217)
NOTE: If 915 is taken in Term 2, the student must have a 1st Semester overall GPA of 3.67 or higher and meet the English Pre-req in order to register. The 915-based pre-req will be re-checked at year-end.

924ushis  United States History
GR 11  QP 4.33  1 CREDIT  YEAR
This is a survey of American history from colonization through World War II. Emphasis is placed on the political, economic, and cultural development of our nation. Social studies skills and historical research skills are strengthened throughout the course.

927ushisH  Honors U.S. History
GR 11  QP 4.67  1 CREDIT  YEAR
This course is a survey of American history from colonization through World War II. It covers major events, key trends, and progressive issues in history from pre-revolutionary times to the present. Emphasis is placed on the political, economic, and cultural development of our nation. Students will read primary source documents and analyze historical data. Writing of analytical papers is expected.

Prerequisite: 3.67 in Western Civilization (934 or 937) or (AP European History (975)

992ushisAP  AP U.S. History (Advanced Placement)
GR 11  QP 5.0  1 CREDIT  YEAR
This course covers the history of the United States in a manner designed to prepare students to take the required AP exam in May. Students read and analyze primary source documents and write analytical and research papers. AP exam fee applies.
Prerequisite: 4.0 in Western Civilization (934 or 937) or AP European History (975) AND a 3.67 average in English courses.

All seniors are required to take either 914 or 964.

914gov  U.S. Government
GR 12  QP 4.33  ½ CREDIT  SEM
This course is a survey of American Government. Students will develop a basic familiarity with federal and state government and understand their role as active and engaged citizens. Students will critically read historical and contemporary primary source documents and analyze current issues.

946govAP  AP U.S Government (Advanced Placement)
GR 12  QP 5.0  1 CREDIT  YEAR
This course provides students with an in-depth knowledge of the intricacies of the United States government, including the founding of the government, the Constitution, political behavior and political parties, interest groups, the media, the institutions of government and the formulation of domestic and foreign policy. Furthermore, students acquire the sophisticated analytical skills needed for social science courses taken at the college level. In addition to taking the AP exam, research papers are an option the teacher may use as an assessment tool as needed. AP exam fee applies.

Prerequisite: 4.0 in 924/927/992 AND a 3.67 average in English courses.

983psych  Psychology
GR 12  QP 4.33  1 CREDIT  YEAR
This course introduces students to psychology by focusing on a select number of topics as they apply to everyday life. This practical approach is intended to encourage students to think critically about human behavior. Topics include: the biological bases of human behavior, human development, learning and memory, stress and health, personality, social psychology, and abnormal behavior. Requirements include readings and experiential learning projects.

993psychAP  AP Psychology (Advanced Placement)
GR 12  QP 5.0  1 CREDIT  YEAR
The aim of this Advanced Placement course is to provide students with the equivalent to that obtained in college introductory psychology courses. This survey course covers 14 topics, including the biological bases of behavior, sensory and perception, learning theory, human development, social psychology, and abnormal behavior. Requirements include readings, outlining, and assessments structured around applying the knowledge gained in class. AP exam fee applies.

Prerequisite: 4.0 in 924/927/992 AND a 3.67 average in English courses.

963asian  Asian Studies
GR 10-12  QP 4.33  ½ CREDIT  SEM
This course introduces students to the diverse cultures and history of East Asia and Southeast Asia. Topics covered include physical and cultural geography, religion, colonialism and independence, the role of women, World War II, and current issues. Students will also research and present a class on a specific Asian country/culture.

965issues  Issues in the U.S. 1945-Present
GR 12  QP 4.33  ½ CREDIT  SEM
This course examines U.S. history from 1945 to the present, including foreign policy through the Cold War, and considers domestic issues that have shaped the nation today, such as the Civil Rights movement, the Women's movement, the cultural change of the 1960s, and the conservative resurgence, with an emphasis on primary sources.