PROGRAM OF STUDIES

2023 - 2024

EAST GRANBY HIGH SCHOOL



EAST GRANBY HIGH SCHOOL

EAST GRANBY, CONNECTICUT

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East Granby High School

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Antonio DeMelo	Patrick Gustafson	Emma Durao	Courtney Prendergast
Principal	Assistant Principal	School Counselor	School Counselor

Dear East Granby High School Families,

We proudly introduce you to the 2023-2024 Program of Studies, a resource detailing the wide variety of diverse and challenging learning opportunities available to you. The Program of Studies is a comprehensive document outlining the course offerings, course sequence, and related requirements for high school students.

Use this guide to inform the choices and decisions you must make to plan a high school program that will support your personal career goals and prepare you to be both intellectually and technologically agile members of society.

Each student's success is important to us, and we believe the following suggestions will serve you well as you plan for your future:

- Select courses that meet district graduation requirements and your post-secondary education and career goals.
- Choose courses to satisfy current interests, curiosities, and the development of personal skills.
- Consult with parents, guardians, counselor, and teachers on a regular basis as you develop, monitor progress, and modify your four-year plan of study.
- Invest your best efforts in academic and co-curricular activities.
- Accept responsibility for your learning, decisions, and actions.

East Granby High School is a high achieving; comprehensive high school offering a wide range of courses that will prepare you for many potential career paths after high school. This document contains information regarding course offerings and possible paths to four-year colleges, to two-year community colleges, or towards entering the workforce or the military. East Granby also offers unique career pathway programs in Advanced Manufacturing Technologies, and Business. Students who enter these pathway programs can earn credit towards an A.S. degree at Asnuntuck Community College.

We are proud to have you in our high school and are committed to supporting your efforts toward fulfilling your potential.

All our best,

East Granby High School Administration

East Granby High School fosters lifelong learners through the development and strengthening of 21st century skills. These intellectual, creative, social, and civic skills will empower students to become responsible and productive citizens in an ever-changing society

Introduction

East Granby Public Schools is located in north central Connecticut near Bradley International Airport and Springfield, Massachusetts. The smallest PK-12 district in the state of Connecticut, East Granby provides a comprehensive education to fewer than 1,000 students in four distinctive school settings.

Our students perform exceptionally well on standardized assessments at all levels.

2013	East Granby High School	CT State: Excelling School of Distinction - 1 of 7 schools
2014	East Granby High School	AP College Board Honor Roll
2015	East Granby High School	AP College Board Honor Roll *Newsweek*: Top 500 High Schools in America College Board: Connecticut's Top Ten High schools CT Dept of Education: School of Distinction
2015	East Granby Public Schools	Rated #1 Best Value District in Connecticut
2016	East Granby High School	Top ten high schools in CT for our state-wide exams.
2017	East Granby High School	U.S. News and World Report: Third best high school in CT (National Rank: 294), awarding the school a Gold Medal.
2018-2022	East Granby High School	U.S. News: Top 40% of Best High Schools in the Nation, Silver Badge

The educational program includes an array of course offerings taught by an exceptional faculty. Students engage in an educational program ensuring meaningful learning opportunities, inspiring active participation, and providing the tools necessary for growing self-directed, lifelong learners. East Granby students also have options available to them through partnerships with community colleges and schools in neighboring districts. For example, students can enroll in Advanced Technologies, Business, and Early Childhood Development Pathways. EGHS also offers the option of earning college credit through the College Connections, High School Partnership and College Now programs, as well as the University of Connecticut Early College Experience program.

In addition to the educational program, our students can participate in a variety of extracurricular and co-curricular activities. More than eighty percent of students participate in afterschool athletics. Student Council, class officer leadership, clubs, community service, and organizations provide additional opportunities for students to get involved in their school and community.

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Accreditation Statement

East Granby High School is accredited by the New England Association of Schools and Colleges, Inc., a non-governmental, nationally recognized organization whose affiliated institutions include elementary schools through collegiate institutions offering post-graduate instruction.

Accreditation of an institution by the New England Association indicates it meets or exceeds criteria for the assessment of institutional quality periodically applied through a peer group review process. An accredited school or college is one which has available the necessary educational programs, is substantially doing so, and gives reasonable evidence that it will continue to do so in the foreseeable future. Institutional integrity is also addressed through accreditation.

Accreditation by the New England Association is not partial but applies to the institution as a whole. It provides reasonable assurance about the quality of opportunities available to students who attend the institution.

Inquiries regarding the status of an institution's accreditation by the New England Association should be directed to the administrative staff of the school or college. Individuals may also contact the Association:

New England Association of Schools and Colleges
Commission on Public Secondary Schools
209 Burlington Road
Bedford, MA 01730-1433
(617) 271-0022

Notice of Non-Discrimination

Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973

In accordance with Title IV, Title VII, Title IX, Section 504 and the Americans With Disabilities Act, it is the policy of the East Granby Board of Education that no person shall be excluded from participation in, denied benefits of, or otherwise discriminated against under any program, including employment, on the basis of race, color, religion, sex, age, national origin, ancestry, marital status, mental retardation, mental or physical disability, including, but not limited to blindness.

The following person has been designated to handle inquiries regarding the nondiscrimination policies:

Karen Gogel
Director of Student Support Services
33 Turkey Hills Road P.O. Box 674, East Granby, CT
06026 Phone: 860-413-9079 / Fax: 860-413-9081
Email: kgogel@eastgranby.k12.ct.us

East Granby High School Core Values and Beliefs

East Granby High School fosters lifelong learning through the development and strengthening of 21st century skills. These intellectual, creative, social and civic skills will empower students to become responsible and productive citizens in an ever-changing global society.

Statement of Belief

East Granby High School faculty and staff members believe and fully commit themselves to work to promote, encourage and support academic excellence for each student in the skill areas of reading, writing, speaking, listening, mathematics, science and the social sciences. We firmly believe in preparing our students to be responsive American citizens and providing them with the additional skills and experiences they will need to be successful in a global society. In addition, we believe in providing opportunities for students to learn and utilize the evolving technology essential for life after high school. Furthermore, we believe in fostering creativity and personal responsibility in all students through a responsive and positive environment where students feel safe and supported.

Portrait of a Graduate

East Granby High School provides a variety of opportunities for students to meet and exceed graduation requirements. Our district is focusing efforts on the following categories - The Five Cs - for the Portrait of an EGHS Graduate: **Critical Thinker**, **Creative Thinker**, **Communicator**, **Collaborator**, and an **Empowered Citizen**. We want all graduates to experience these components throughout their schooling, so they are fully prepared for their futures.

Cultural and Climate

We strive at East Granby High School to ensure an appreciation of cultural diversity within the student body, the community, and the world. We will do this throughout our instructional practices, our curricula, by modeling respect for one another throughout our school day, and by adhering to the tenets of the Safe School Climate Plan. Our district has a Culture and Climate Advisory Team of educators who will help support Social Emotional Learning, lead professional development, facilitate book clubs, workshops, and activities. Our final plan is expected to include three critical components: teaching & learning, community engagement, and student centered opportunities for growth. By working together, we will learn from one another, engage in reflective practices, and remain goal oriented to enhance an already special community.

Special Education

(IDEA) (State of Connecticut 10-76 A-H) guarantees students having special needs that they will receive appropriate educational and/or related services and programs. Parents having any questions regarding the law or wishing diagnostic-academic evaluation should contact the school principal, school counselor, or the director of student support services.

EGHS Expectations For Student Learning

Each East Granby High School academic department is responsible for assessing students' progress in one or more of the adopted learning expectations. Additionally, the Administrators are responsible for ensuring students demonstrate their ability to be contributing members of the greater community, and the School Counselors are responsible for helping students identify their personal interests, and plan for areas of strength and growth.

East Granby High School Learning Expectations are:

1. **DEMONSTRATE LANGUAGE PROFICIENCY THROUGH EFFECTIVE COMMUNICATION.**
   Students will:
   1a) demonstrate language proficiency through effective reading
   1b) demonstrate language proficiency through effective writing
   1c) demonstrate language proficiency through effective speaking
   1d) demonstrate language proficiency through effective listening and viewing

2. **DEMONSTRATE PROFICIENCY IN THE USE OF TECHNOLOGY TO COMMUNICATE, RESEARCH, AND PROBLEM-SOLVE.**
   Students will:
   2a) demonstrate proficiency with technology to locate, analyze, and use data/information/media effectively
   2b) demonstrate proficiency in the use of technology to deliver a presentation effectively

3. **APPLY A VARIETY OF MATHEMATICAL METHODS AND UTILIZE APPROPRIATE TECHNOLOGY TO COMPUTE, REASON, AND SOLVE PROBLEMS.**
   Students will:
   3a) apply learned concepts to problem solve, employ computational techniques and technologies
   3b) analyze problems, using reason to solve, ensuring relevance and accuracy
   3c) formulate and integrate mathematical methods to show mastery of specific mathematical content

4. **APPLY SCIENTIFIC CONCEPTS AND CRITICAL THINKING SKILLS TO REACH LOGICAL AND REASONED CONCLUSIONS.**
   Students will:
   4a) demonstrate an understanding of scientific thought and apply the basic principles of the biological, earth and/or physical science
   4b) understand the complex and limiting nature of socio-economic, political, and technological factors affecting the environment
   4c) identify and design techniques for solving problems in science

5. **DEMONSTRATE CREATIVE EXPRESSION THROUGH COMMUNICATION OR THE ARTS**.
   Students will:
   5a) perform, produce or interpret a product that demonstrates originality and creativity

6. **DEMONSTRATE AN UNDERSTANDING OF THE IMPACT OF CULTURAL AND LINGUISTIC DIVERSITY IN OUR GLOBAL SOCIETY.**
Students will:
6a) demonstrate an understanding of cultural, social, and religious diversity in our global society
6b) demonstrate an understanding of Human Rights in our global society

7. **DEMONSTRATE PERSONAL RESPONSIBILITY. Students will:**
7a) demonstrate personal responsibility through engagement
7b) demonstrate personal responsibility through self-directed learning and leadership
7c) demonstrate personal responsibility through decision-making
7d) demonstrate personal responsibility through effective collaboration

8. **IDENTIFY PERSONAL INTERESTS AND PLAN FOR AREAS OF STRENGTH AND AREAS OF GROWTH.**
Students will:
8a) demonstrate knowledge of one's learning style
8b) demonstrate knowledge of one's personality profile
8c) demonstrate knowledge of one's career preferences
8d) demonstrate ability to set achievable goals

9. **DEMONSTRATE KNOWLEDGE OF CIVIC RIGHTS, DUTIES AND RESPONSIBILITIES OF AMERICAN CITIZENSHIP.**
Students will:
9a) demonstrate knowledge of civic responsibilities
9b) demonstrate knowledge of civic duties
9c) demonstrate knowledge of civic rights
9d) effectively demonstrate the ability to be a contributing member of his/her community

Expectations for Student Learning were revised January, 2010

EGHS Expectations for Student Learning

Performance Standard: LITERACY

Given the district's commitment to literacy as an interdisciplinary construct that compels students to read critically, write clearly and with purpose, speak effectively and listen for meaning, the Board of Education has adopted the following exit requirement for all students at East Granby High School.

Graduates of EGHS will read a variety of texts, interpret what they read and demonstrate their coherent understanding in written form. Written work will present the author's voice with clarity, include a well-developed analysis and demonstrate an understanding of a central theme, organization, elaboration as well as a proficient use of standard English.

As students advance through the grades and master the standards in reading, writing, speaking, listening, and language, as determined by the Connecticut Common Core State Standards, they are able to exhibit with increasing fullness and regularity these capacities of the literate individual. Click here for the Common Core Standards for ELA/Literacy website.

Performance Standard: MATHEMATICS

Students at East Granby High School have a longstanding history of success in mathematics as measured by high levels of performance on national and state assessments. The use of mathematical methods to solve problems, communicate effectively and function competently in a challenging society is an essential skill set for learners at all levels. In support of sustained efforts in this area, the Board of Education has adopted the following exit expectation for all students graduating from EGHS.

Graduates of East Granby High School will solve authentic mathematical problems that require demonstration of basic mathematical operations. The proficient student will communicate solution strategies and explain mathematical concepts to indicate an ability to think and reason mathematically using accurate mathematical vocabulary in written, visual and oral formats. Connecticut Common Core State Standards outlines what students should understand and do in mathematics.

Performance Standard: SCIENCE

Next Generation Science Standards (NGSS) was adopted by the Connecticut Board of Education in 2015. Since then, EGPS has transitioned to the new standards in grades K-12. The Board of Education has adopted the following exit expectation for all students graduating from EGHS: Graduates will plan and carry out inquiry-based laboratory and field investigations, analyze and interpret data using the appropriate tools and technology, work collaboratively to formulate questions and define problems, create and use models to demonstrate scientific phenomena, use mathematics and computational thinking, engage in argument from evidence interpreted and derived from the inquiry process, construct explanations, and design solutions to problems. Students will have access to multiple electives and Advanced Placement course offerings.

Demonstration of Performance Standards

English Language Arts (ELA)
Students will demonstrate completion of the district's performance standard in ELA by meeting at least one of the following criteria:

- Students will meet or exceed the state SAT benchmark as established by the CT State Department of Education
- A grade of 80% or better in a required English subject class; or
- Successful completion of the East Granby Secondary Literacy Assessment.

Mathematics
Students will demonstrate completion of the district's performance standard in mathematics by meeting at least one of the following criteria:

- Students will meet or exceed the state SAT benchmark as established by the CT State Department of Education
- A grade of 80% or better in a required math subject class; or
- Successful completion of the East Granby Secondary Mathematics Assessment.

Science
Students will demonstrate completion of the district's performance standard in Science by meeting at least one of the following criteria:

- Students will meet or exceed the state benchmark on the Next Generation Science Standards Test as determined by the State of Connecticut.
- A grade of 80% or better in a required science subject class; or
- Successful completion of the East Granby Secondary Science Assessment.

Special Education Considerations

- Students with identified special needs are required to meet district performance expectations in both literacy and mathematics, as well as the community service requirement**,** as determined by the Planning and Placement Team. Options for these students to demonstrate proficiency on the performance standards include, but are not limited to, the following: Standard demonstration of literacy, science, and mathematics standards. Students who do not meet the goal are required to follow the guidelines for regular education students with modifications/accommodations determined by the PPT.
- An alternate assessment developed by the CSDE and administered by a team consisting of both special and regular education teachers for those students identified through the PPT process.

Notification for Not Meeting Benchmark
Students not meeting the benchmark in grade 11 on the SAT are notified in writing they have not met the state's requirement for graduation.

Community Service Requirement

Community Service as a Requirement for Graduation - .25 credit
The New England Association of Schools and Colleges Standard on *Mission and Expectations* requires schools specify how students will demonstrate civic and social expectations for student learning. The indicator specifically states:

The school shall have indicators by which it assesses the student's progress in achieving schoolwide civic and social expectations.

Students attending East Granby High School are required to perform 20 hours of service in the school or broader community, in an area of interest to them. All students must complete at least 20 community service hours as a credit-bearing requirement for graduation. Students who complete 50 or more hours of community service may apply for 0.5 credit from the State Department of Education.

Interested students should see their school counselor for more information. In the case of a student with identified special needs, the PPT process can determine the scope of the student's community service.

The community service hours may be completed any time during a student's high school career, including the summer prior to entering ninth grade. To initiate a service project, a student should prepare a proposal by completing the required forms and presenting it for approval to an administrator.

Assessment: The student will be provided a rubric describing the parameters and the performance criteria for this requirement. The Assistant Principal will then verify successful completion. The student will be awarded .25 credits for successfully completing this requirement. The community service credit is a separate entity, and may not be used to substitute for any other credit requirements. The student will effectively demonstrate the ability to be a contributing member of his/her community.

Students who transfer to East Granby from other schools within Connecticut
Students who enter East Granby High School from another secondary school in Connecticut are required to meet the performance standards, community service requirements, and all other expectations of the East Granby Board of Education and the CSDE as set forth in this policy.

Students who transfer to East Granby from schools outside of Connecticut
Students who enter East Granby High School from out-of-state schools in grades 9-11 are required to meet the performance standards, community service requirement, and all other expectations of the East Granby Board of Education and the CSDE as set forth in this policy. Students who transfer from schools outside of Connecticut to East Granby in their senior year will be exempted from the basic skills and the community service requirement.

School Counseling Services

The School Counseling Department at East Granby High School offers a 9-12 Comprehensive School Counseling Program supporting the positive development of all students. The School Counselors promote and assist academic, social, emotional, and career development for all students. As leaders, school counselors serve students in collaboration with parents, teachers, staff, and the community. Valuing diversity, school counselors use a comprehensive approach to facilitate the development of all students to achieve personal excellence.

East Granby's Comprehensive School Counseling Program is designed to provide intervention with a proactive and preventative approach to all students. The program consists of a planned, sequential School Counseling curriculum, individual planning, responsive services, and system support. School counselors work with students and parents on issues concerning academics, educational plans, career plans, and personal/social challenges.

Students are assigned to a counselor in alphabetical order according to the student's last name, and will remain with the same school counselor through their four years. It is the school counselor's responsibility to fully respect the right to privacy of those students with whom they have a counseling relationship, and to provide an atmosphere of trust and confidence. School counselors adhere to confidentiality unless a student is at risk of harm to themselves or someone else.

For more school counseling information please visit the School Counseling Website

GRADUATION REQUIREMENTS
2023+

	Credits	Credit Recommendations for Colleges
Humanities	**9**	
English	4	4
Social Studies 1 credit MW History 1 credit US History .5 credit Civics	3	3-4
World Language	2	2
Math & Science	**7**	
Math 1 credit in Algebra I 1 credit in Geometry	4	4
Science 1 credit Physical Science 1 credit Life Science	3	3-4
Career & Life Skills	**4.75**	2+
Fine Arts Education (art, technology, family consumer sciences)	1	1
Health & Wellness 1 credit PE/1 credit Health	2	
Capstone	1	
Personal Finance	.5	
Community Service	.25	
STEM Electives	**2**	1
Additional Elective Courses	**2.25**	
Total Credits for Graduation	**25**	

Grade Promotion	
Class	**2023+**
Sophomore	6
Junior	12
Senior	18

*All students are required to register for a minimum of six credits per year.

Work study and community service credits are not counted toward the **six** credits. Students are required to be in school for each period of the school day or in a planned advanced program of study. Deviations must be approved by the Administration. A student failing one or more subjects may make up the failed courses in summer school. Please refer to BOE policy #5123.2 for information regarding summer school eligibility.

Capstone – 1 credit

The *Capstone Experience* is a culminating presentation providing a means for students to demonstrate the knowledge and skills acquired during their secondary school years. It engages students in a project or experience focusing on an interest, career path, or academic pursuit, synthesizing classroom study and real world perspectives. Students demonstrate their ability to apply key knowledge and skills by planning, completing, and presenting a culminating project linked to one or more areas of personal interest and the individual's Student Success Plan. Students will have presentations into their senior English class, along with guidance on presentation style, writing, and research.

The *Capstone Experience* could include an in-depth project, reflective portfolio, community service and/or internship. Successful completion of the *Capstone Experience* will earn the student one high school credit and a successful completion is required for graduation.

Planning Your High School Program

General Guidelines

A total of six credits constitute a minimum program of studies in each academic year. One credit courses are taken for a full year and ½ credit courses are taken for a half-year. Students are encouraged to elect courses giving them an opportunity to explore different areas of learning that may guide career choices.

In selecting a course of study, you are encouraged to consider your previous school performance, work habits, interests, aptitudes, and future plans. Plan for a sequence of courses that will assure your subjects for the current year will fit into the overall plan of greatest benefit to you in terms of your present and future goals and interests.

As you make your selections, consider some basic information about yourself:

- What should I be getting from my education? Am I choosing what is best for me? Am I being challenged?
- What are my strengths and weaknesses, as indicated by previous achievements, interests, and standardized test results?
- In what general area of work do I hope to engage when I complete my education? Will this require education or training beyond high school? What are the requirements for admission to a school for further education?
- Do the course(s) I am interested in have a suggested prerequisite? Am I doing well enough to assure my passing the next sequence of the subject?
- Will this subject(s) satisfy course requirements for graduation, college admission, or fit into my post high school plans?

Planning a course of study is an important and collaborative venture. It involves you, your parents, your school counselor and your teachers. Parents are urged to meet with the counselor and teachers to help in the planning process. Students and families are encouraged to use the chart on the following page to map out their four year plan.

Admission Requirements to College and Other Post-Secondary Institutions

During a typical school year, many admissions representatives from various colleges, universities, and technical institutions visit East Granby High School. These visitations are announced in advance, and interested juniors and seniors are invited to meet with any of these representatives.

Admission requirements vary from college to college, so students are advised to check for specific admission requirements. Our counselors will schedule individual appointments with all juniors and seniors to discuss future plans.

The following should serve as a general guide for students and parents. It represents a composite of requirements for admission to college and technical institutions.

Highly Selective Colleges	Most four-year Colleges	Two-year Community/Technical Colleges
4 credits- English	4 credits- English	4 credits- English
4+ credits- Math	3-4 credits- Math	3+ credits- Math
3+ credits- World Language * of the same language	2+ credits- World Language * of the same language	
3 credits- Social Studies	2 credits- Social Studies	
3 credits- Science, preferably Biology, Chemistry and Physics	2-3 credits- Science	

College Planning

Careful preparation and planning will assure you of a rewarding educational experience!

You should be aware of college entrance requirements as early as possible and plan a high school program accordingly. The latest websites of many colleges and universities, as well as catalogs and other materials, are helpful in planning a college career are available in the school counseling department. Your school counselor will facilitate your post-secondary planning.

Generally, colleges consider:

1. High school grades;
2. Class rank;
3. Scores of the SAT (SAT) or the American College Tests (ACT);
4. Distribution of credits;
5. Extra-curricular and community activities especially those showing community service;
6. The college essay; and
7. Recommendation letters.

College Examinations

Many colleges require entrance or placement examinations as one criterion for selecting qualified candidates for admission. The counseling department has information about administration of the following:

The Preliminary SAT
Multiple versions of the PSAT are administered throughout the school year. The PSAT is a three hour practice version of the SAT. Freshmen take the PSAT 9 and sophomores take the PSAT 10 in the spring. Juniors take the PSAT NMSQT (The National Merit Scholarship Qualifying Test) version in the fall. This test may qualify students for various scholarships and may also be used to indicate probable success in college level work, as well as achievement in a variety of subject areas. All 9th, 10th, and 11th grade students are encouraged to take the PSAT.

SAT
The SAT is an entrance exam used by most colleges and universities to make admissions decisions. It is a multiple-choice, pencil-and-paper test administered by the College Board.There are two parts to the SAT: evidence-based reading and writing, and mathematics.The total testing time equals three hours. The SAT exam is offered nationally every year in August, October, November, December, March, May, and June.

American College Tests (ACT)
The ACT is a national college admissions examination that consists of subject area tests in: English, Mathematics, Reading and Science. ACT's writing test is optional and will not affect your composite score. ACT results are accepted by all four-year colleges and universities in the US.

Advanced Placement Tests (AP)
The Advanced Placement Program is an internationally recognized program in which students can earn college credits while still in high school. Exams are given during the second and third week of May to those students who wish to receive college credit for their AP courses. There is a fee for each test. The exam is scored on a range from 1 - 5, with 5 being the highest. Students may consider taking one or more Advanced Placement examinations. Competitive colleges look for AP classes on applicants' transcripts. Taking AP classes can also save students money, allow them to choose a major sooner, and potentially allow the student to take more electives in college.

Test of English as a Foreign Language (TOEFL)
The results of this test will be used to re-adjust the verbal SAT score of a foreign-born students.

College Level Entrance Program (CLEP)
The College Level Examination Program is a group of standardized tests created and administered by the College Board. These tests assess college-level knowledge in thirty-six subject areas and provide a mechanism for earning college credits without taking college courses.

Accuplacer

The Accuplacer is used for placement purposes in math and English at community college. This test uses a multiple-choice format. There's no time limit on the tests, so you can focus on doing your best to demonstrate your skills.

Senior Mid-Year Completion of Graduation Requirements

Students who complete all graduation requirements by the end of the second marking period of their senior year may apply to leave school at that time provided they have complied with the following procedure:

1. A formal request must be made to district administration before the end of the junior year by the parent/guardian
2. The request for recognition of mid-year completion must have the approval of the parent or guardian
3. The student's counselor must certify the student is eligible for early graduation
4. Final and official approval must be obtained from the Superintendent of Schools

Recognition of mid-year completion of graduation requirements may be granted for the following reasons:

1. Early acceptance into college or other approved vocational programs. (Acceptance must be verified by the Admissions Director.)
2. Extreme economic hardship in the family.

EGHS LISTING OF COURSES

This section has titles and credits, with descriptions following. Credit for a full year course is granted only upon successful completion. Be sure to read the course descriptions **before** completing the course selection.

ART	
Adobe Visual Design	1
Advanced Drawing	½
Advanced Ceramics	½
Ceramics	½
🌎Crafts and Design	½
Drawing I	½
Photography	½
🌎Art Appreciation	½
🌎AP Art History	1

BUSINESS	
Accounting I (or used as math cr)	1
Accounting II	1
Entrepreneurship	½
Forensic Accounting	½
+Introduction to Business	1
🌎International Business	½
Marketing, Sports /Entertainment	½
+Personal Finance	½
+Principles of Macroeconomics	1

FAMILY & CONSUMER SCIENCE	
Adulting, Indepen. Living	½
Child Development I	½
Child Development II	½
Consumerism & Personal Dev.	½
Fashion & Interior Design	½
Food and Nutrition	½
Baking	½
🌎Regional & International Cuisines	½

Yearbook Work Experience	½

ENGLISH	
English 9	1
🌎English 10	1
English 11	1
🌎English 12	1
Journalism: 21st Century Studies	½
SAT English Preparation	½
AP English Language & Comp.	1
🌎 AP Literature & Composition	1
Study Skills	½

HEALTH EDUCATION	
Grades 9 – 10 Health	½
Grades 11 – 12 Health	½

MANUFACTURING, ENGINEERING, & TECHNOLOGY	
Advanced Manufacturing I	½
Advanced Manufacturing II	½
Advanced Manufacturing & Technology - At ACC	2
Drones	½
Architectural Design	½
Principles of Engineering	½
Cybersecurity	½
Computer Science Principles	½
AP Computer Science Principles	1
Game Design	½

PHYSICAL EDUCATION	
Physical Education 9 - 12	½

MATHEMATICS	
Accounting I (or use as business cr)	1
Algebra I	1
Algebra II	1
Advanced Algebra II	1
Geometry	1
Advanced Geometry	1
Advanced Mathematical Decision Making - AMDM	½
SAT Math Preparation	½
Probability and Statistics	½ -1
Pre-Calculus	1
Calculus	½
Trigonometry & Polar Coordinates	½
AP Calculus	1
AP Statistics	1
*UConn ECE: Discrete Mathematics	½
Study Skills	½

SOCIAL STUDIES	
Modern World History	1
United States History	1
AP Psychology	1
AP United States History	1
Black and Latino Studies	1
US Foreign Policy since 1945	½
Anthropology	½
Civics	½
Intro to Economics	½
Practical Law	½
AP Government and Politics	½
Global Contemporary Issues	½

MUSIC	
Band	½ -1
Chorus	½ -1
Jazz Band	1
Music Exploration	½
Theatre Arts	½
*UConn ECE: Music Appreciation	½
Fundamentals of Music	½

SCIENCE	
Biology	1
Chemistry	1
Physics	1¼
AP Biology	1½
AP Chemistry	1½
*UConn ECE: Chemistry	1½
Physical w/ Earth & Space Science	1
Anatomy and Physiology	½
Environmental Science	1
Forensic Science	½

WORLD LANGUAGE	
French III	1
French IV	1
Spanish I	1
Spanish II	1
Advanced Spanish II	1
Spanish III	1
Spanish IV	1
AP French	1
AP Spanish	1

PARTNERSHIP PROGRAMS	
Bloomfield Agriscience	2
Greater Hartford Academy of the Arts	3
College Connections - Advanced Manufacturing & Technologies	2

iLE 21	
Capstone Field Experience	1
Independent Study	¼-1
Work Study	¼-1

HONORS COURSES

EGHS recognizes the value of taking rigorous college level courses and encourages students in taking at least one Advanced Placement (AP) course and examination. Honors and Advanced Placement level courses are open to students who have been recommended by their subject teachers on the strength of their academic achievements. All honors students earn an extra .5 per class towards their GPA.

Faculty members will recommend students for all honors/Advanced Placement level courses. In the event a parent/guardian does not agree with the recommendation, an override form must be filled out and a meeting arranged with the school counseling department. The following courses will be offered at the **HONORS** level:

Advanced Algebra II	English 10	French IV
Advanced Geometry	English 11	Spanish IV
Calculus	English 12	Civics
Physics	Anatomy & Physiology	United States History
Trigonometry & Polar Coordinates	Biology	US Foreign Policy
Probability & Statistics	Chemistry	Introduction to Economics
Personal Finance	Band	Chorus
Principles of Macroeconomics	African American/Latino Studies	

Advanced Placement Classes (Students who earn a three or higher on the AP exams will earn three college credits at many colleges and universities). All students in these courses are strongly encouraged to take the AP exam(s) in May. Students should see their school counselor for further information. All AP students earn an extra 1.0 towards their GPA

AP Art History	AP English Language	AP Psychology
AP Biology	AP French Language	AP Spanish Language & Culture
AP Calculus	AP Government and Politics	AP Statistics
AP Chemistry	AP Literature and Composition	AP United States History
AP Computer Science		

COURSE DESCRIPTIONS

Art Department

ADOBE VISUAL DESIGN – 1 credit

Visual Design: Foundations of Design and Print Production is a yearlong, project-based curriculum developing career and communication skills in print production and graphic design, using Adobe tools. Visual Design develops four key skill areas: project management and collaboration, design, research and communication and professional print production using graphic design tools. Students develop these key skills in a spiral—each project adds more challenging skills to foundation proficiencies. Students experience subject areas and skills across careers in graphic design, photography, print and layout design, and production.

ADVANCED DRAWING – ½ credit

This expands on previously learned drawing techniques and materials while exploring new concepts and ideas. Media focuses on color with the use of pencil, chalk, pastel, and ink. Engage in experiences encompassing art history, art appreciation, art criticism, aesthetics, and production. The course culminates with a series of related artwork using the medium or media of their choice. Students will produce pieces for a portfolio at this level, demonstrating a sincere desire to explore various ideas and personal identity.

ADVANCED CERAMICS 1/2 credit

Adv Ceramics is for intermediate and adv students wanting to learn advanced ceramics techniques. For students who excelled in Ceramics 1 with a strong desire to develop skills and craft further. Sketching, designing, and revising plans before building will be required. Students expand their artistic skills analytically, conceptually, and technically and further develop their visual arts vocabulary. Students will be using hand-building and throwing techniques or combining these methods to produce more advanced and personalized works in clay. Students will expand their ability to create ceramic works as both functional pieces and as aesthetic sculptural forms. Advanced students will be required to develop a body of work representing their personal aesthetic and skill.

CERAMICS – ½ credit

Introduces ceramics through a series of demonstrations dealing with varied building techniques. The basic principles of hand building will be stressed. Become familiar with ceramic materials and their preparation, theory of firing, glaze and surface decoration techniques, and the use and maintenance of studio equipment. View and discuss the design and building methods used in a wide variety of ceramic works. Historical references include Greek, Egyptian, African, Native American, Oriental, and Pre-Columbian Cultures.

CRAFTS and DESIGN – ½ credit

Apply fundamental processes of artistic expression to the materials and accompanying aesthetics of crafts. Students explore types of folk art, materials used, and ways objects were created for practical and cultural needs around the world. Possibilities include calligraphy, knitting, crocheting, paper-making, glass etching, and wo. Explore aesthetic issues surrounding folk art and artists and engage in critiques of this authentic art form.

🌏 **The Connecticut Certification of Global Engagement certificate is possible through select curriculum.**

DRAWING I – ½ credit

Introduces the basic form of communication for the artist. Beginning concepts and techniques teaches drawing skills in a variety of mediums. The history of drawing and artists introduces cultures and historical styles. Art elements and design principles increase knowledge of basic concepts and aesthetic appreciation. Career opportunities and a student art exhibit will be offered.

PHOTOGRAPHY - ½ credit

A balance between digital and analog photography. Offers opportunities for exploring facets of photography. Learn about the historical advancements in photographic history and experience a darkroom environment, with many opportunities to improve darkroom techniques. With a final portfolio in mind, explore portraiture, landscape, still life, macro and formal lighting techniques used in the industry. Learn how a 35mm SLR works and how to maintain it for optimum performance. Assignments are weekly, followed by student outings, and culminating in digital and darkroom experiences.

ART APPRECIATION - ½ credit

An introduction to the historical study of, and foundation for, many forms of art. Helps form an aesthetic framework to examine social, political, and historical events in the world and how visual images express the ideas of individuals and society. Students will create using multiple mediums such as collage, sculpture, and painting. 🌎 **The Connecticut Certification of Global Engagement certificate is possible through select curriculum.**

AP ART HISTORY – 1 credit

Explores topics such as the nature of art, its uses, its meanings, art making, and responses to art. Through investigation of diverse artistic traditions of cultures from prehistory to the present, the course fosters in-depth and holistic understanding of art from a global perspective. Learn and apply skills of visual, contextual, and comparative analysis to engage with a variety of art forms, constructing understanding of individual works and interconnection of art making processes and products throughout history. (Offered every other year.)

🌎 **The Connecticut Certification of Global Engagement certificate is possible through select curriculum.**

Business Education Department

ACCOUNTING I - 1 credit

Designed to develop an understanding of the basic accounting principles and procedures applied to accounting records kept for businesses operating in the private sector. Double entry accounting and the accounting cycle is applied to both service and merchandising businesses. Students are introduced to computerized accounting with various internet applications, Automated accounting problems, simulations, and Excel spreadsheets are assigned throughout the year. *Note: Counts as a math OR a business credit.* **+ College Career Pathways credit is possible through Asnuntuck Community College for successful completion of both Accounting I & II.**

ACCOUNTING II - 1 credit

A continuation of Accounting I, beginning with corporations and continuing into advanced accounting concepts. The goal is reinforcing basic accounting theory and creating an understanding of computerized accounting through a hands-on approach. Computers are used in developing common accounting applications, and for introducing students to accounting theory in inventory control, budget accounting, taxes and the corporation, stocks, bonds, and fiscal reports. Highly recommended for those planning to major in business or accounting in college or for an entry-level position in accounting following high school graduation. Online option. ***Prerequisite-Accounting I*** **+College Career Pathways credit awarded for the successful completion of both Accounting I & II.**

ENTREPRENEURSHIP - ½ credit

Develop entrepreneurial, internet research, web tools, and marketing skills in this innovative course. Explore business ethics and product development, develop a business plan, create a mock company website, learn about hiring, research funding options, identify a market, and design a marketing plan. Each unit explores a career in a particular business sector. Develop and use leadership, collaboration, communication, and project management skills.

INTERNATIONAL BUSINESS – ½ credit

Gives an overview of the concepts and basic differences involved in international business. Topics include forms of foreign involvement, international trade theory, governmental influences on trade and strategies, international organizations, multinational corporations, personnel management, and international marketing. Upon completion, students know the foundation of international business.

🌏 **The Connecticut Certification of Global Engagement certificate is possible through select curriculum.**

INTRODUCTION TO BUSINESS – 1 credit

Provides a basic overview of the structure of small and large business organizations. Reviews distinguishing features of sole proprietorships, partnerships, and corporations. Students learn about all aspects of organizing a business. This is an excellent course for those having an interest in understanding how businesses are formed, how they work, and how they are organized for growth and success. + **This course uses the same textbook and syllabus as the course offered at ACC. College Career Pathways credit will be awarded for successful completion of this course and Personal Finance.**

PRINCIPLES OF MACROECONOMICS – 1 credit

Honors level. Introduction to contemporary macroeconomic thought and practices. Major concepts and tools of economic analysis covered include unemployment, inflation, national income accounting, business cycles, growth theory, monetary policy, and investments. Most four-year college business programs require this course. +**This course uses the same textbook and syllabus as the *Principles of Macroeconomics* course offered at Asnuntuck Community College. College Career Pathways credit will be awarded for successful completion of this full year course.**

PERSONAL FINANCE ONLINE – ½ credit

Honors level. A rigorous and higher-level content course for developing financial goals and implementing plans to achieve these goals. Topics include the financial planning process, economic environment, time value of money, legal environment, and financial analysis. Spreadsheets, discussion boards, and digital technologies are utilized for analysis. Students must be highly motivated and committed to online self-directed and independent learning with reading, research, and communication using video, audio, and text.. Periodic meetings with students may be required at the discretion of the teacher. *Note*: *Counts as a math OR a business credit*

+**This course uses the same textbook and syllabus as the course offered at Asnuntuck Community College. College Career Pathways credit will be awarded for successful completion of this course and Introduction to Business.**

PERSONAL FINANCE – ½ credit

An introduction to personal financial planning, including the development of financial goals and implementing plans to achieve these goals. Topics include the financial planning process, economic environment, time value of money, legal environment, and financial analysis. Useful to all students. *Note*: *Counts as a math OR a business credit* +**This course uses the same textbook and syllabus as the course offered at Asnuntuck Community College. College Career Pathways credit will be awarded for successful completion of this course and Introduction to Business.**

MARKETING FOR SPORTS AND ENTERTAINMENT – ½ credit

Provides an introduction to marketing principles. Includes research, development of marketing campaigns, and sales techniques Topics include branding, promotions, sponsorships, and events.

English Department (4 credits required for graduation)

ENGLISH 9

Develops and extends skills through reading, writing, listening, speaking. Students read both fiction and nonfiction purposefully, responding in writing through classroom discussions. Genres also include poetry, short story, and drama. Grammar and vocabulary work are embedded within the course, with an emphasis on standard written English.

ENGLISH 10

English 10 uses thematic strands with World Literature to include the common core standards expectations of Reading, Writing, Listening, and Speaking as the foundation for their learning. Students work both independently and collaboratively on projects, with opportunities throughout the year to write creatively, do research, and read and respond to literature. Honors option.

ENGLISH 11

English 11 uses the common core standards expectations of Reading, Writing, Listening, and Speaking as the foundation for their thematic work. Students work both independently and collaboratively on projects, with opportunities throughout the year to write creatively, do research, and read and respond to literature. Honors option.

ENGLISH 12

Senior English has the Capstone work embedded into the course, ensuring students have a successful culminating experience. This course prepares students for writing for business and college, as well as exploring a variety of genres of literature through reading and discussion. Honors option.

JOURNALISM:MEDIA & THE CRITICAL EYE – ½ credit

Designed for juniors and seniors with strong writing skills and an interest in publishing online and print. Learn news gathering techniques, write various types of copy, and analyze local, state, and national newspapers and news magazines. Leverage internet search engines and news feeds in order to research and source writing products.

STUDY SKILLS - ½ credit

Learn and utilize a variety of study skills needed for achieving success in school and beyond. Work on organization, assessment techniques, and subject-related skills. ***Needs prior approval from administration.***

SAT ENGLISH PREPARATION – ½ credit

Prepares students for the College Board's SAT, familiarizing students with the standards assessed in the test and providing both strategies and practice for questions in critical reading, grammar, usage, and writing. The primary goal is helping students use knowledge and skills, along with test taking strategies, to increase performance. Has a clear focus on skills and knowledge for college success.

AP ENGLISH LANGUAGE AND COMPOSITION – 1 credit

An introductory college-level composition course. Students cultivate their understanding of writing and rhetorical arguments through reading, analyzing, and writing texts as they explore topics like rhetorical situations, claims and evidence, reasoning and organization, and style.

AP ENGLISH LITERATURE AND COMPOSITION – 1 credit

An introductory college-level literary analysis course. Students cultivate their understanding of literature through reading and analyzing texts as they explore concepts like character, setting, structure, perspective, figurative language, and literary analysis in the context of literary works.

🌎 **The Connecticut Certification of Global Engagement certificate is possible through select curriculum**

Family and Consumer Sciences Department

CHILD DEVELOPMENT I – ½ credit

Explore the critical beginnings of a family unit: pregnancy and birth through the first years of life focusing on the toddler's social/emotional, cognitive, and physical development. Learn the roles and responsibilities of parenting, participate in planning and running "Toddler Time" for 2-3-year-olds. Several projects are included on theorists, creating toys, books, games, and other activities for toddlers.

CHILD DEVELOPMENT II – ½ credit

Study a child's growth and development from preschool through school age. Includes observation sessions of children: in addition students plan, operate, and evaluate the "Bumble Bee" nursery school program for local pre-k children. Parenting skills are learned, along with developmentally appropriate activities for pre kindergarten learners. ***Prerequisite: Child Development I***

ADULTING: LIVING INDEPENDENTLY– ½ credit

This comprehensive course helps you meet the challenges of your daily life with confidence as you transition into adulthood. Learn basic information and practical skills: financial literacy, interpersonal and family relationships, and career preparation. Includes other life-management skills: insurance, foods, nutrition, healthy choices, clothing, and housing options. Practice decision- making and planning needed for living as an independent adult.

FASHION AND INTERIOR DESIGN – ½ credit

Analyze choices and make decisions on housing, interiors, and furnishings using basic elements of design. Also, research fashion, fabric and design, clothing care, and merchandising. Pattern and fabric selection is an integral part of the course. Students work both independently and collaboratively on projects.

FOODS AND NUTRITION – ½ credit

Learn the principles of cooking, kitchen organization, consumerism and skills for selection and maintenance of food, nutrition, and equipment. Food preparation skills promoting safety in the kitchen are developed while working collaboratively learning and cooking recipes from each food group. Global citizenship, collaboration and creativity are stressed and the food industry is explored.

YEARBOOK EXPERIENCE – ½ credit

Get career and workplace experience through yearbook production, learning about the creation of text media, as well as advertising, design, and budgeting. Strong use of photography, editing skills, layout and design of pages and meeting production deadlines. Junior and Senior Preference.

REGIONAL AND INTERNATIONAL CUISINES – ½ credit

Research and prepare foods from all the regions of the world. Expand food preparation techniques and organizational skills, while learning planning and preparing special food items for various occasions and holidays. Menus feature good nutrition, a creative presentation. Cook-off competitions are included. Classroom discussions, demos, student participation, labs, Lab teamwork emphasized with a focus on global awareness, and cultural diversity. ***Prerequisite: Foods and Nutrition*** 🌎 **The Connecticut Certification of Global Engagement certificate is possible through select curriculum.**

BAKING AND PASTRY ARTS – ½ credit
Develop skills necessary for creating a variety of breads, cakes, and pastries. Explore personal and career goals in the culinary field. Cook-off competitions, as well as service to others are included. Classroom discussions, demos, student participation, labs, task- recipe- nutritional and cost analyses, individual and group projects, promote student understanding and learning. Advanced Baking labs learning a variety of creative baking techniques.
Prerequisite: Foods and Nutrition

Health Department (1 credit required for graduation)

A comprehensive, sequential program. Develops skills, attitudes, and knowledge necessary to protect, maintain, and promote wellness. Increases awareness regarding beneficial efforts of good health practices, stresses the concepts of critical thinking and problem-solving in the decision making process. Helps with developing and understanding how physical, emotional, mental, and social health are interrelated, through recognition of the dynamic complexity of life.

HEALTH 9 – ½ credit
Required course taken in 9th grade. Topics include: first aid, substance use and abuse, human sexuality (including sexual harassment), communicable and noncommunicable diseases, parental and personal conflict, exercise and weight control (including eating disorders), and mental health (including stress control and suicide). Features a major focus on the development of effective decision-making skills.

HEALTH 11 – ½ credit
A required course taken in 11th grade. Topics include: human sexuality (including sexual harassment); communicable and noncommunicable diseases; the aging process; dealing with death and dying; mental, emotional, and social health; and certification in Cardiopulmonary Resuscitation (CPR). The decision-making process is applied to the promotion of positive practices and attitudes on personal health, and how we all can contribute to a healthy society.

Manufacturing, Engineering, and Technology Education (MET) Department

Manufacturing, Engineering & Technology Education is a discipline with a learn-by-doing philosophy. It is anchored in a model incorporating knowledge, skills, and the application of technology to scientific principles, within problem-solving contexts. The program teaches students about design and technology, and helps them understand how to adapt to new experiences and technologies. Technology courses are designed to expand awareness of career opportunities and provide introductory experiences with the tools of modern technology. Students gain practical life skills and an appreciation of how technology impacts all of our lives.

Four areas of study are offered: Advanced Manufacturing, Design, Computer Science and Principles of Engineering. Juniors and Seniors who have achieved an "A" in a Manufacturing, Engineering & Technology Education course may have the option of arranging to pursue further study in an area of interest through an Independent Study.

ADVANCED MANUFACTURING I - ½ credit
Explore manufacturing technologies and innovations from the past, present and into the future. Experience the world of Advanced Manufacturing in partnership with Asnuntuck Community College. Ideas conceived by students are brought from concept into the 'tangible world.' Using CAD applications, students produce prototypes on the 3D printers and also transform materials into usable products using hand and power tools. In this exciting course, students and teachers initiate new ideas in a collaborative effort.

ADVANCED MANUFACTURING II – ½ credit

A continuation of Advanced Manufacturing I**,** in partnership with Asnuntuck Community College. Emphasis on the growth of previously learned manufacturing skills and concepts. Students will design and produce manufactured goods using tools, processes, and techniques that simulate what is being done in industry today. Activities include the use of CAD, 3-D printing, laser technology, welding methods, and blueprint reading. Projects are initiated by students and the teacher in a collaborative manner.

ADVANCED MANUFACTURING TECHNOLOGY- AT ACC – 2 credits

Spend ten hours a week at Asnuntuck Community College in an introduction to theoretical and lab applications in welding and machining technologies. In the second year, hone skills in subtractive manufacturing through the authentic application of modern welding and machining technologies.

ARCHITECTURAL DESIGN - ½ credit

Draw "details" of residential construction while learning about construction techniques, materials used, and various local and national building codes applied to these trades. Further study leads to the world of CAD, its use in architectural drawing, and potential careers in this field. Manual sketching, drawing on boards, and the computer are emphasized. A culminating activity involves a summative assessment such as a portfolio, a research paper related to the trades, or a project.

PRINCIPLES OF ENGINEERING – ½ credit

Learn about a variety of engineering topics through team and individual design challenges. Apply knowledge of math, science, and engineering while conducting experiments. Analyze and interpret data, design a system, component, or process to meet desired needs, and identify, formulate, and solve engineering problems. Learn about professional and ethical responsibility, In addition, study impacts engineering solutions have in global, economic, environmental, and societal contexts, using contemporary issues.

DRONES – ½ credit

Work with unmanned aerial systems. Learn about aerodynamics and understand the varied uses of drones in multiple disciplines/careers. Get hands-on experience flying and drone data collection, along with capturing video and still images. Explore FAA guidelines. ***Prerequisite: Computer Science Principles***

GAME DESIGN: INTRODUCTION TO JAVASCRIPT – ½ credit

Students will explore javascript, CSS and HTML programming in a hands-on way; having access to real, practical, terminal-based coding experience (actually typing code) through the creation of a text and image-based adventure game (a simple RPG). From syntax to data-structures and functions, we explore the ins and outs of creating a program. Students will create an original game.

COMPUTER SCIENCE PRINCIPLES – ½ credit

Gives a wide lens on computer science through topics such as programming, physical computing, HTML/CSS, and data. Engage with computer science as a medium for creativity, communication, problem solving, and fun. Build websites, apps, games, and physical computing devices.

AP COMPUTER SCIENCE PRINCIPLES – 1 credit

AP Computer Science Principles introduces students to the central ideas of computer science, instilling the ideas and practices of computational thinking and inviting students to understand how computing changes the world. This course promotes deep learning of computational content, develops computational thinking skills, and engages students in the creative aspects of the field.

CYBERSECURITY – ½ credit

This honors level course provides you with the knowledge and skills to assess cyber risks to computers, networks, and software programs. Learn how to create solutions to mitigate cybersecurity risks. ***Prerequisite: AP Comp Sci.*** Juniors and Seniors only.

Mathematics Department (4 credits required for graduation)

ALGEBRA I - 1 credit

Allows students the opportunity to build on their knowledge of number sense and patterns to create and analyze functions. These functions are further examined and developed through the use of graphs, inequalities and quadratics. Students will be given the fundamental structure to model, transform, simplify and solve a variety of problems efficiently. The use of technology will allow students to explore and deepen their understanding of algebraic concepts. Through all of the course students will work to create a variety of representations modeling real world applications.

ALGEBRA II - 1 credit

Further investigates topics taught in Algebra I, leading to advanced study in algebraic functions, including quadratic functions, polynomial and rational functions, logarithmic and exponential functions, analytic graphing, systems of equations and inequalities, statistics, and problem solving strategies. Learn to use the graphing calculator and its applications for real-world problem solving. NOTE: Advanced Algebra II follows the course curriculum contained herein.

ADVANCED ALGEBRA II - 1 credit

Honors level: Includes topics such as the real and complex number systems, matrices, trigonometric functions, sequences and series, permutations, and combinations. Integration of technology, critical- thinking activities, and manipulations are used to communicate mathematics in a variety of ways. Problem solving strategies are further developed, providing tools needed to solve real-world situations.

GEOMETRY - 1 credit

Utilizes concepts related to triangles, quadrilaterals, circles, and other geometric figures to develop deductive reasoning, applies geometric transformations in the coordinate plane to understand congruence and similarity, introduces right triangle trigonometry, applies concepts of area and volume to two and three dimensional figures, and introduces probability. Includes a practical application of topics and skills learned in Algebra I.

ADVANCED GEOMETRY - 1 credit

Honors level. Learn plane and solid geometry utilizing geometry as a mathematical system model. Topics may include: parabolas and other conic sections, locus, and constructions. Note: Adv Geometry uses Geometry curriculum.

PROBABILITY AND STATISTICS – ½ Honors level or 1 credit

Includes analysis and creation of a variety of graphical displays of data. Students are made aware of the potential misuses of statistics by the media and others because of a variety of poor collection techniques. Students are asked to analyze and draw conclusions about larger and broader populations through the analysis of data gathered through sampling. The importance of proper sampling and experimentation techniques are discussed, and the lack of such techniques should lead students to question the validity of results. The Empirical rule is introduced with the normal model and is applied through population probabilities along with sample hypothesis testing. Features discussion, experimentation, and the application of topics through projects where applicable. Graphing calculators and other technology are used at pertinent intervals.

PRECALCULUS – 1 credit

This course begins with a detailed review of algebra II, which includes the following topics: linear, quadratic, and higher-order polynomial functions; rational functions; systems of equations; matrices; and families of graphs. Trigonometric functions are then introduced and considered in detail, as are the topics of vectors, matrices, and polar coordinates. The fundamentals of calculus, the derivative and the integral (both definite and indefinite) are then developed within the context of limits and continuity. ***Prerequisite: Algebra II***

CALCULUS – ½ credit

Second semester honors level course in the trigonometry-calculus sequence. Once the concepts of limits and continuity are established, the two fundamental principles of calculus will be addressed: the derivative and the integral (both definite and indefinite). Each concept is first developed from its definition, after which techniques for evaluating each will be introduced and employed. Finally, applications (i.e., problem solving) of the derivative and the integral will complete the course.

TRIGONOMETRY & POLAR COORDINATES – ½ credit

This honors-level, one-semester course is the first in the trigonometry-calculus sequence. After review of right-triangle geometry (to include the ratios of sine, cosine, and tangent), the concept of the angle, developed in the geometry course, is broadened to include: angles in standard position; positive and negative angles; coterminal angles; radian measure; and the reciprocal ratios of cosecant, secant, and cotangent. The above-named ratios are then treated as special cases of trigonometric functions, whose graphs, properties and identities are then considered.

ADVANCED MATHEMATICAL DECISION-MAKING - 1/2 credit

A third or fourth-year course, extending learning from prior courses. It covers a range of topics, many of which were not traditionally a part of high school mathematics courses: managing data, network graphs, and understanding credit, debt, and financial investments. This course provides an opportunity to model a range of real-world situations and solve relevant problems. Topics are represented in multiple ways, such as concrete/pictorial, verbal/written, numeric/data-based, graphical, and symbolic.

AP CALCULUS - 1 credit

Roughly equivalent to a first semester college calculus course. Devoted to exploring the concepts, methods and applications of differential and integral calculus. Students will work to understand the theoretical bases including concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. Students will work to justify reasoning and solutions to problems by applying their knowledge and skills. Teaches students how to approach calculus concepts and problems when represented graphically, numerically, analytically, and verbally, and making connections amongst these representations. Learn how to use technology to help solve problems, experiment, interpret results, and support conclusions.

AP STATISTICS - 1 credit

Equivalent to a one-semester, intro non-calculus-based college course in statistics. Introduces major concepts and tools for collecting, analyzing, and drawing conclusions from data. Themes include: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Use technology, investigations, problem solving, and writing while building conceptual understanding.

SAT MATHEMATICS PREPARATION – ½ credit

Designed to prepare for the College Board's SAT. In addition to reviewing topics from pre-algebra, algebra, and geometry, become familiar with the format of the test and learn test-taking strategies. Practice the effective use of a graphing calculator. Much of the course is devoted to practice problems similar to those on the SAT, supporting college readiness with a clear focus on skills and knowledge needed for college success.

UCONN ECE DISCRETE MATHEMATICS - ½ credit

A college level course under the University of Connecticut Early College Experience, three college credits may be earned for the satisfactory completion of this course. (Equivalent to Math 1030Q at UCONN.) Discrete Mathematics is a practical mathematics course for the college bound student, featuring learning how to think more effectively, communicate more clearly, and discover ways mathematics can be applied in the world. Topics may include counting and probability, sequences, graph theory, deductive reasoning, the axiomatic method and finite geometries, number systems, voting methods, apportionment methods, mathematics of finance, and number theory. ***UCONN ECE credit can be awarded for a grade of C or higher.**

STUDY SKILLS - ½ credit

Learn and utilize a variety of study skills needed for achieving success in school and beyond. Work on organization, assessment techniques, and subject-related skills. ***Needs prior admin approval.***

Music Department

BAND – 1 credit

Full year course meets daily. Open to woodwind, brass or percussion players interested in exploring music in a rehearsal setting. Students create, perform, and respond to music of all styles with emphasis on musical enjoyment, musical/historical enrichment, and performance technique. There is an extra curricular component to this course. Students are required to participate in all after-school rehearsals and performances. Lack of participation results in a significant reduction of the grade earned and possible loss of credit. Honors level available - Must meet all requirements for H.S. Band with a high level of proficiency and complete a project each quarter. Projects include preparing for music festival auditions, completing a music festival audition, participating in a music festival, mentoring K-5 or middle school musicians, and assisting with K-5 and middle school concerts.

CHORUS- 1 credit

Full year course meets daily. Open to develop vocal skills and learn to sing in a choral setting. Emphasis placed on musical enjoyment, musical/historical enrichment, vocal techniques, and parts singing. Create, perform, and respond to all styles and historical periods of music. Preparation for each rehearsal and performance is required. Honors level available - Must meet all requirements for H.S. Chorus with a high level of proficiency. including periodic singing checks, and a project each quarter. Projects include preparing for music festival auditions, completing a music festival audition, participating in a festival, mentoring K-5 or middle school musicians, and assisting with K-5 and middle school concerts.

BAND and CHORUS- 1 credit A combination class of both above, with alternating days for the year.

JAZZ BAND – 1 credit

Full year course meeting every day. Open to all instrument players interested in exploring jazz music in a rehearsal setting. Students will create, perform, and respond to music of all jazz styles and historical periods with emphasis on musical enjoyment and performance technique.

MUSIC APPRECIATION – ½ credit (UCONN ECE eligible)

Semester course, daily. Open to all interested in exploring various styles, genres and historical periods of world music from medieval times through the present. **OPTIONAL:** UCONN ECE program - Students may apply for transferable college credit from the University of Connecticut via the Early College Experience program for a fee. The course meets a general education credit at most colleges and universities (equivalent to MUSI 1001 at UCONN). No prerequisites. ***UCONN ECE credit can be awarded for a grade of C or higher.**

MUSIC EXPLORATION – ½ credit

Open to any student with an interest in music including learning an instrument, improving performance technique on an instrument or working with music software to compose electronic music. Students may work individually or in small groups (piano, drum set, ukulele, rock band, guitar ensemble, etc.). Students will develop a plan and a goal for assessment and grading.

FUNDAMENTALS OF MUSIC - 1/2 credit

Open to all students interested in learning more about reading, writing and performing music. Topics include clefs, rhythms, scales and chords. OPTIONAL: UCONN ECE program - Students may apply for transferable college credit from the University of Connecticut via the Early College Experience program for a fee and grade of C or higher. The course meets a general education credit at most colleges and universities. (No prerequisites)

THEATRE ARTS – ½ credit

Focus on the study and performance of musical theater in its many forms and a wide range of scripted materials, such as screenplays and theater scripts. Study techniques for creating original dramatic works and the role of musicals in society. Perform with others and critique of dramatic works.

Physical Education Department (1 credit required for graduation)

Classes will meet daily for one semester and activities may vary between semesters. *1/2 credit each.*

First Semester

Fall Activities: soccer, flag football, basketball, team handball, archery, fitness (running program, weight lifting), and badminton, volleyball, tennis, lacrosse, and lawn sports.

Second Semester

Spring Activities: volleyball, lacrosse, indoor soccer, softball, wiffle ball, fitness (running program, weight lifting), lawn sports, tennis, Frisbee, team handball, and basketball. Varies with class size.

Science Department (3 credits required for graduation)

ANATOMY AND PHYSIOLOGY – ½ credit

Honors level. Acquire a working knowledge of human anatomy (body structure) and physiology (body function). Examine relationships between the human body and a representative vertebrate. Move from an understanding of the cellular level through the tissue and organ level, to an understanding of systems. ***Offered 11th and 12th***

BIOLOGY - 1 credit

Gain understanding of key concepts in life science: Structure and Function; Inheritance and Variation of Traits; Matter and Energy in Organisms and Ecosystems; Interdependent Relationships in Ecosystems; and Natural Selection and Evolution. Life science blends core ideas with scientific and engineering practices and crosscutting concepts for developing knowledge,and is applied across science disciplines.

CHEMISTRY - 1 credit

A laboratory science with an in-depth study of chemistry. Content includes atomic structure and theory, stoichiometry, behavior of gasses, liquids and solids, chemical reactions, ionic and covalent bonding, reaction rates, equilibrium, molecular geometry, and an introduction to organic and nuclear chemistry. In addition to regular class time, there is a weekly lab period. ***Prerequisite: Algebra I or its equivalent***

ENVIRONMENTAL SCIENCE - 1 credit

Study organisms and our world, including the ecology of land, water, air, world resources, energy, conservation, pollution, and population. Laboratory-oriented class, exploring concepts through activities, research, and projects. The more we understand our environment and how our behavior affects it, the better we can work to make our planet a safer and more enjoyable place to live.

FORENSIC SCIENCE - ½ credit

Use science applications (chemistry, physics, and biology) found in police investigations and criminal/ civil law. Learn proper collection and lab techniques. Course work includes fingerprinting, fiber analysis, trace and blood evidence, and more.

PHYSICAL SCIENCE WITH EARTH AND SPACE SCIENCE - 1 credit

Study chemistry, physics, and earth and space sciences and their applications via exploratory investigations and activities. Includes laboratory investigations incorporating measurement, problem-solving, laboratory apparatus, safety procedures and experimental procedures.

PHYSICS – 1 credit

An honors level inquiry-based course with extensive laboratory investigations concerned primarily with the principles and laws governing the physical world. Units include: Mechanics, Dynamics, Properties of Matter and Heat, Light and Optics and Electromagnetism. Motion, matter and energy are studied in real-world activities and through mathematical analysis. ***Prerequisite: Algebra II. Trigonometry is recommended.***

AP BIOLOGY – 1 ½ credit

An introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, energetics, genetics, information storage and transfer, ecology, and system interactions.

AP CHEMISTRY - 1 ½ credit

An introductory college-level chemistry course. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore the four Big Ideas: scale, proportion, and quantity; structure and properties of substances; transformations; and energy.

UCONN ECE CHEMISTRY- 1.5 credit

A college level course under the University of Connecticut Early College Experience, four college credits may be earned for the satisfactory completion of this course. This course is designed to provide a foundation for more advanced college courses in Chemistry. Topics include atomic theory, laws and the theories concerning the physical and chemical behavior of gasses, liquids, solids, and solutions. ***UCONN ECE credit can be awarded for a grade of C or higher.**

Social Studies Department (3 credits required for graduation)

CIVICS - ½ credit

Focuses on the U.S. Constitution and government, rights and responsibilities of citizens, political systems, and international relations. Encourages participation in the U.S. political process. Honors option.

ANTHROPOLOGY – ½ credit

Provides a study of human evolution and the cultural factors that established the various relationships in the development of man. Examine the relationship of humans to their environment and the impact of the environment on the development of human relations. Includes research, writings, debates, and presentations.

🌏 **The Connecticut Certification of Global Engagement certificate is possible through select curriculum.**

INTRODUCTION TO ECONOMICS – ½ credit

Explores the theory and practice of various economic systems, focusing on the American economic system. Examine and evaluate current issues of economic problems, policies, and practice, along with the role of public policy in driving local, national, and international economic decisions. Gain an understanding of the operation of a free market economy and the influence of contemporary forces in shaping it.

GLOBAL CONTEMPORARY ISSUES – ½ credit

Develop skills in research, analysis, and communication of society's pressing issues. Study global issues ranging from culture, politics, economics, human rights, the environment, conflict through the use of technological resources. A strong focus on communication and research is embedded.

🌏 **The Connecticut Certification of Global Engagement certificate is possible through select curriculum.**

MODERN WORLD HISTORY– 1 credit

Ninth grade. Focuses on the western and non-western world from the Renaissance through the 20th century. Through readings, writing, and research, explore significant themes applicable to modern world history; with the goal of better understanding the world. Honors option.

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PRACTICAL LAW – ½ credit

Provides an introduction to the American legal system. Emphasis placed on the criminal and juvenile justice systems. Constitutional law, the prison system, and the trial process are explored. Other topics may include civil law, family law, consumer law, housing law, human rights issues, and comparative legal systems. Learn about how laws are made and how the Supreme Court works.

PSYCHOLOGY – ½ credit

An introduction to the social science of psychology. Emphasis on the biological and environmental influences affecting the behavior of individuals and groups. Examines select concepts, theories, and research from biological, cognitive, developmental, and abnormal psychology.

UNITED STATES HISTORY – 1 credit

Focuses on major issues and events of U.S. history, beginning with the mid-19th century to the present. Emphasizes important political, social, and economic developments shaping modern American society through writing, research, and technological skills. Honors option.

AFRICAN AMERICAN/BLACK AND PUERTO RICAN/LATINO STUDIES

Honors Level. Explore accomplishments, struggles, intersections, perspectives, and collaborations of African American/Black and Puerto Rican/Latino people in the U.S. Examine how historical movements, legislation, and wars affected the citizenship rights of these groups and how they, both separately and together, worked to build U.S. cultural and economic wealth and create more just societies in local, national, and international contexts. Coursework provides students with tools to identify historic and contemporary tensions around race and difference; map economic and racial disparities over time; strengthen their own identity development; and address bias in their communities. A Humanities Elective. ***Prerequisites: US History and Modern WH Grades: 11-12***

US FOREIGN POLICY SINCE 1948 – ½ credit

Honors level. Examine major U.S. issues in foreign affairs since World War II. Uses research and presentations for analysis and discussions. Topics: Cold War, relations among world powers, terrorism, and major conflicts. Honors option. 🌏 **The Connecticut Certification of Global Engagement certificate is possible through select curriculum.**

AP PSYCHOLOGY – 1 credit

Explore the ideas, theories, and methods of the scientific study of behavior and mental processes. Examine the concepts of psychology through reading and discussion and analyze data from psychological research studies. Connect psychological concepts and theories to real-life scenarios. Understand and interpret data.

AP GOVERNMENT AND POLITICS- ½ credit

An introductory college-level course exploring the political theory and everyday practice of the daily operation of the U.S. government and shapes our public policies. Students cultivate their understanding of U.S. government and politics through analysis of data and text- based sources as they explore topics like constitutionalism, liberty and order, civic participation in a representative democracy, competing policy-making interests, and methods of political analysis. ***Prerequisite: American Government***

AP UNITED STATES HISTORY – 1 credit

An introductory college-level course. Study the cultural, economic, political, and social developments that shaped the United States from c. 1491 to the present. You'll analyze texts, visual sources, and other historical evidence and write essays expressing historical arguments.

World Language Department

FRENCH III - 1 credit

A continued emphasis on speaking and understanding skills. Readings are based on selections illustrating several forms of French fiction and nonfiction. Writing uses different forms of composition. Vocabulary, idioms, and grammar are expanded. Conversational skills built through discussions. ***Prerequisite: French II***

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FRENCH IV - 1 credit

Honors level. Concentrates on increasing proficiency in language skills. Study advanced grammar, idioms, and expand vocabulary. Creative writing, oral discussions, and critical analysis of classic and modern French literature. Various aspects of French culture stressing history, themes of permanent relevance, such as family, politics, lifestyles, etc. and issues of current interest in the Francophone world. Written reports are assigned in French IV, as well as reading novels and plays. ***Prerequisite: French III***

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AP FRENCH LANGUAGE AND CULTURE - 1 credit

An introductory college-level course. Develop your French language skills and learn about the cultures in French-speaking parts of the world. You'll practice communicating in French and study real-life materials such as newspaper articles, films, music, and books.

🌎 **The Connecticut Certification of Global Engagement certificate is possible through select curriculum.**

SPANISH I - 1 credit

Introduces fundamental skills of the Spanish language, using modern techniques and principles of linguistics. Learn basic vocabulary pertinent to understanding Hispanic cultures, as well as specific grammatical concepts. Basic listening, speaking, reading, and writing skills are developed. Explore some cultures of the Hispanic nations. Open to students in grades 8-12.

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SPANISH II – 1 credit

An expansion of Spanish language vocabulary and grammar. Reading and writing leads to constructing short paragraphs and understanding more difficult material. Emphasis on understanding and speaking skills for more accurate conversations. Cultural awareness of Hispanic nations continues. ***Prerequisite: Spanish I***

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SPANISH II ADVANCED – 1 credit

An enriched expansion of Spanish language vocabulary and grammar. Reading and writing leads to constructing short paragraphs and understanding more difficult material. Emphasis on understanding and speaking skills for more accurate conversations. Cultural awareness of Hispanic nations continues. Higher level of rigor of lessons, instruction, pacing, and assessments in this course. ***Prerequisite: Spanish I with strong performance on Spanish I exit exam and teacher recommendation.***

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SPANISH III – 1 credit

Study advanced grammar and vocabulary, with a continued emphasis on developing speaking, understanding, and writing skills through various forms of composition. Provides information on the geography of Spain and Spanish America. Short stories are introduced. ***Prerequisite: Spanish II***

🌎 **The Connecticut Certification of Global Engagement certificate is possible through select curriculum**

AP SPANISH LANGUAGE AND CULTURE – 1 credit

An introductory college-level course. Develop your Spanish language skills and learn about the cultures in Spanish-speaking parts of the world. You'll practice communicating in Spanish and study real-life materials such as newspaper articles, films, music, and books.

🌎 **The Connecticut Certification of Global Engagement certificate is possible through select curriculum.**

ILE21 Programs

Integrated Learning Experiences for the twenty first century (iLE21) includes a variety of opportunities for students to engage in learning opportunities outside the school, which will help them hone skills important for success in twenty first century academic, careers, and working environments. iLE21 offerings currently include the following:

Independent Study

Students having special abilities in specific fields may further the development of these abilities through independent study. Students will basically prescribe their own course through contractual agreement with the school, meeting cooperatively developed requirements. Credit may be given, the amount contingent on the quantity and quality of the work and the degree of difficulty of the subject area. Although the student is expected to work independently, faculty members will provide guidance, and the school facilities may be utilized. For further information, see your school counselor.

Work-Study

A work-study program for eligible students. Credit may be given for supervised work experience meeting established criteria. One credit in either junior or senior year or a combination of the two. Credit is awarded by quarter upon successful employer evaluation. Contact your school counselor for further information.

Magnet/Career/Technical School Opportunities - Use THIS LINK for further information.

The Board of Education recognizes students may benefit from choosing a magnet or technical school to attend within the public school system that is not limited by school district boundaries. Please contact the school counseling office for more specific information.

College Credit Opportunities

EGHS offers students multiple ways to earn college credit while enrolled in high school.

University of Connecticut Early College Experience (ECE)

UCONN Early College Experience (ECE) provides academically motivated students 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 credits, providing both an academic and a financial head-start on a college degree. More information can be found HERE.

Advanced Placement (AP)

The courses follow strict curriculum guidelines as prescribed by the College Board; the rigor and quality is similar to college level courses. The skills acquired in AP courses may help one stand out in college admissions, earn college credit, develop successful habits, and content knowledge. Students are encouraged to take the AP exam at the end of each registered course. The exams are in May. College policies regarding AP credit are found HERE.

College Career Pathways (CCP)

College Career Pathways (CCP) is a dual-enrollment program sponsored through the Connecticut State Department of Education and Asnuntuck Community College (ACC). The CCP program nurtures college and career exploration in students with classes leading to both EGHS and college credit. Students take courses at no cost. These courses are taught at EGHS by our high school teachers who are credentialed as Asnuntuck Community College (ACC) adjunct professors. Upon graduation from high school, the student is under no obligation to attend Asnuntuck Community College. An official ACC transcript can be requested by students, from ACC directly, for the earned credits. Students interested in enrolling in any CCP course are advised to review the CCP handbook for more information. More information can be found HERE.

Additional Credit-Bearing Opportunities Available to East Granby High School Students

High School Partnership (HSPP): Provides juniors or seniors a chance to experience college. Tuition and fees are paid by the college. Admission guidelines: juniors and seniors with a minimum G.P.A. of B (3.0). Eligible students may take up to two (s) college courses each semester, on a space available basis.

University of Hartford High School Advance Enrollment Program-"College NOW": As a service to local communities, the University makes available many of its regular courses to especially well-qualified high school students in their senior year who have satisfied the academic prerequisites and exhausted all course offerings available at their high schools. Students must be recommended in writing by their high school counselor and formally accepted by the Center for Graduate and Adult Academic Services. Students accepted into the program may enroll in one course per fall and spring semesters, on a space-available basis, tuition free. Students are responsible for applicable fees and books. Registration takes place through the Center for Graduate and Adult Academic Services.

The Saint Joseph University "Challenge Program" High school juniors or seniors have an opportunity to engage in a rigorous college experience, while earning credits. Students receive a tuition-free course for college credit, but assume the cost of books, laboratory fees, and transportation. Enrollment is subject to openings available after regular registration, and unless otherwise noted, classes meet three hours a week.

College Credit East Granby Public Schools strongly encourages juniors and seniors to pursue college/university courses aligned with career interests at an accredited college, or university. Courses would be recognized for elective credit. College credit courses may be available to selected seniors in cooperation with area schools and universities with existing articulated agreements. East Granby Public Schools accepts a maximum of 4 college courses for high school elective credits. (Conversion of college course credit per State Statute.) Students may be eligible for this privilege during their sophomore, junior or senior year, with prior approval of administration and a minimum GPA of 3.0.