

# OPPORTUNITIES



## Course Catalog 2022 – 2023

*A pathway to your  
future...*

**HADDAM-KILLINGWORTH HIGH SCHOOL  
HIGGANUM, CONNECTICUT**

**Haddam-Killingworth High School  
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Higganum, Connecticut 06441**

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## MISSION STATEMENT OF REGIONAL DISTRICT 17

*The mission of Regional School District 17 is to engage our students in an educational community that challenges students with high standards and builds their capacity to succeed and their aspiration to improve themselves and their society.*

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### **COURSE OFFERINGS**

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## **HKHS Sports 2022 – 2023**

<b>Fall Sports</b>	<b>Winter Sports</b>	<b>Spring Sports</b>
Cheerleading*	Boys' & Girls' Basketball	Baseball
Boys' & Girls' Cross Country	Cheerleading *	Boys' & Girls' Golf
Field Hockey	Gymnastics	Boys' & Girls' Lacrosse
Football	Boys' & Girls' Indoor Track	Boys' & Girls' Outdoor Track
Boys' & Girls' Soccer	Boys' Swimming	Softball
Girls' Swimming	Wrestling	Boys' & Girls' Tennis
Girls' Volleyball	Boys' Ice Hockey (Co-Op)	

\*Note: Cheerleading is considered a Non-CIAC sport but follows CIAC rules

## **Non– Athletic Co-Curricular Activities**

Art Honor Society	High School Bowl	<i>Reflections</i> (Literary Magazine)
<i>Cougar Chronicle</i> (Student Newspaper)	HK Players (Drama/High School Musical)	Robotics Club
Compassions Club	Human Relations Club	SADD (Students Against Destructive Decisions)
Cougar Spirit Club	International Culture Club	
Current Events Club	Math League	
Environmental Club	MIND	Spanish Honor Society
Film Society	Musical Pit Band	Strategic Games Club
Financial Club	National Honor Society	Student Council
French Honor Society	Peer Advocates	Yearbook ( <i>OPTICON</i> )
GSA (Gay Straight Alliance)	Photography Club	

## **BELL SCHEDULE**

MON (45 min)		TUE (65 min)		WED (65 min)		THU (65 min)		FRI (45 min)	
A	7:25-8:10	A	7:25-8:30	B	7:25-8:30	A	7:25-8:30	A	7:25-8:10
B	8:15-9:10	B	8:35-9:50	C	8:35-9:50	C	8:35-9:50	B	8:15-9:10
C	9:15-10:00	D	9:55-11:00	Advisory 9:55-11:00		D	9:55-11:00	C	9:15-10:00
D	10:05-10:50	L/A	11:05-11:50			L/A	11:05-11:50	D	10:05-10:50
L/A	10:55-11:40	E	11:55-1:00	L/A	11:05-11:50	E	11:55-1:00	L/A	10:55-11:40
E	11:45-12:30	G	1:05-2:10	F	11:55-1:00	F	1:05-2:10	E	11:45-12:30
F	12:35-1:20			G	1:05-2:10			F	12:35-1:20
G	1:25-2:10							G	1:25-2:10

## **COURSE INFORMATION**

1. A full credit is earned by passing a year-long course. A half credit is earned by passing a semester-long class.
2. Students must carry seven credits per year.
3. Students must meet both the school and the state graduation requirements.
4. Beyond these requirements, students should select courses to satisfy vocational or educational plans, to try new fields, and to discover new interests.
5. We want all students to be successful. Student, parent, teacher, and counselor input determine the level at which a student will take a course.
  - a. **Advanced: UConn (UC)/PLTW (PL)/MXCC (MX), Advanced Placement (AP)** courses are offered to students who are ready for the rigor of a college course.
  - b. **Honors (H):** level courses are available to students who wish to pursue a course where the content and pace are very challenging.
  - c. **College Preparatory:** courses are offered at the standard level. (In this book, any course designated by its title only is a college prep course.)
6. All students must pass **Algebra 1** or its equivalent in High School or Middle School.
7. Educational Center for the Arts (ECA) credit does not count toward HKHS grade point average (GPA)
8. Independent Study needs approval from Department Head before the form can be submitted to principal

### **Incomplete Grades:**

Teachers must submit an Incomplete Grade Notice to the principal before an Incomplete (I) can be given in a course. Administrative approval is required for all incomplete grades. Unless otherwise noted, all incomplete grades must be completed and submitted no later than two weeks after the original closing date.

### **Withdrawals:**

Students who withdraw from a class after the change period at the beginning of each semester will be required to meet with their School Counselor and will require final administrator approval. Withdrawal may result in a W on the student's transcript.

# **CREDIT DISTRIBUTION AND REQUIREMENTS FOR GRADUATION** **CLASS OF 2023, 2024, 2025, and 2026**

For classes graduating in 2023 and thereafter, the following 25 credits are required:

## **HUMANITIES - 9 CREDITS:**

### **English 4 credits**

- ☐ 1 credit      ☐ 1 credit  
☐ 1 credit      ☐ 1 credit

### **History/Social Sciences 3 credits**

- ☐ US History and Civics      1 credit  
☐ 1 credit  
☐ 1 credit

### **Fine Arts**

- ☐ 0.5 credit

☐ Additional credits in English, History/  
Social Sciences or Fine Arts. Total  
must equal at least 9 credits of  
Humanities

## **SCIENCE, TECHNOLOGY, ENGINEERING, & MATH : STEM - 9 CREDITS**

### **Mathematics 3 credits**

- ☐ 1 credit  
☐ 1 credit  
☐ 1 credit

### **Science 3 credits**

- ☐ Physical Science      1 credit  
☐ Biology      1 credit  
☐ 1 Additional Full Year Science Course 1 credit

☐ Additional Math, Science, PLTW, Tech Ed,  
or TV. Total must equal at least 9 credits of STEM

## **COMMUNITY SERVICE**

- ☐ 30 hours

## **WORLD LANGUAGES - 1 CREDIT**

- ☐ 1 credit

## **HEALTH & SAFETY - 1.0 CREDIT**

- ☐ Health 1      .5 credit  
☐ Health 2      .5 credit

## **PHYSICAL EDUCATION & WELLNESS 1.0 CREDIT**

- ☐ 1 Semester PE 1      .5 credit  
☐ 1 Semester PE Course .5 credit

## **ELECTIVES - 3 CREDITS**

- ☐ 1 credit  
☐ 1 credit  
☐ 1 credit

## **MASTERY-BASED DIPLOMA ASSESSMENT - 1 CREDIT**

- ☐ 1 credit

## **PERFORMANCE REQUIREMENTS**

Connecticut School Day SAT  
Next Generation Science Standards

## **CREDITS FOR PROMOTION**

***Number of credits required to graduate in 4 years: 25***

Promotion to grade 10: credits needed - 4

Promotion to grade 11: credits needed - 11

Promotion to grade 12: credits needed - 18

### **GPA SCALE**

Letter Grade	Percentage	College GPA	Honors GPA	AP GPA	Honor Roll GPA
A+	97-100	4.0	4.3	4.5	4.0
A	93.00-96.99	4.0	4.3	4.5	4.0
A-	90.00-92.99	3.7	4.0	4.2	3.7
B+	87.00-89.99	3.3	3.6	3.8	3.3
B	83.00-86.99	3.0	3.3	3.5	3.0
B-	80.00-82.99	2.7	3.0	3.2	2.7
C+	77.00-79.99	2.3	2.6	2.8	2.3
C	73.00-76.99	2.0	2.3	2.5	2.0
C-	70.00-72.99	1.7	2.0	2.2	1.7
D+	67.00-69.99	1.3	1.6	1.8	1.3
D	63.00-66.99	1.0	1.3	1.5	1.0
D-	60.00-62.99	0.7	1.0	1.2	0.7
F	59 or below	0.0	0.0	0.0	0.0
I	Incomplete				
M	Medical Excuse				
W	Withdrawn				

## Regional School District 17 Vision of the Graduate



*A graduate of the RSD17 School District is a compassionate critical thinker, who collaborates to solve problems, and is prepared to contribute to improving our world.*

**Contribute Productively** includes the ability to:

- Take control of one's learning by planning and organizing oneself to complete tasks
- Demonstrate Independence and initiative in doing one's best work
- Collaborate positively on a team project or shared endeavor
- Seek leadership or take a supportive role within a group in a manner that works best for oneself, others and the outcome
- Think creatively and flexibly to design and develop innovative solutions, strategies, and outcomes

**Think Critically** includes the ability to:

- Inquire and formulate questions to gather information and expand upon ideas
- Research and distill information from reliable resources representative of multiple perspectives
- Evaluate information for credibility, bias, and point of view
- Analyze and interpret information and data to generate solutions to problems
- Reflect upon the accuracy or viability of solutions or conclusions

**Communicate Effectively** includes the ability to:

- Organize thoughts to articulate and justify one's position or perspective with clarity
- Construct, refine, and present arguments supported by evidence
- Actively listen to understand and interpret the ideas and reasoning of others
- Use a variety of verbal, written, or visual methods appropriate for the message and audience

**Maintain a Growth Mindset** involves believing in oneself, having an open-mind, and demonstrating perseverance and resilience. Examples of demonstrating a Growth mindset include:

- Apply sustained effort to understand concepts, acquire skills, and achieve to one's greatest potential
- Reflect upon feedback or mistakes as opportunities to adapt and improve upon learning
- Show determination to accomplish one's goals
- Explore ideas to expand thinking
- Encourage a growth mindset in others

**Demonstrate Respect, Empathy and Kindness** involves caring for and showing compassion for oneself and others. Examples include:

- Seek to understand one another's experiences, circumstances, and perspectives
- Embrace diversity and recognize the value of all persons by promoting equity and inclusivity
- Maintain self-respect and advocate for oneself and others
- Be kind and act to enhance the climate of our schools and community

**Display Character, Courage, and Integrity** involves having confidence in oneself to make sound decisions. Examples include:

- Do the right thing, even when no one is looking
- Take the initiative to provide or seek help for oneself or others
- Stand up for oneself or others when faced with unkind, disrespectful, or discriminatory behavior
- Actively engage in discourse that addresses difficult topics or situations to improve conditions for all

# **HKHS CORE VALUES, BELIEFS, AND LEARNING EXPECTATIONS**

We believe that every member of our community has value. We believe in the power of intellectual curiosity, global responsibility, and personal integrity. We believe in developing the knowledge and skills essential to healthy and productive lives.

## **HKHS LEARNING EXPECTATIONS:**

In a variety of contexts for a variety of purposes, students will:

1. Demonstrate personal responsibility, character, cultural understanding, and ethical behavior;
2. Communicate clearly and effectively in order to express ideas and connect with others;
3. Investigate, evaluate, and apply information;
4. Work both independently and collaboratively toward a specific outcome;
5. Demonstrate creative, innovative, and reflective thinking.

## **NATIONAL COLLEGIATE ATHLETIC ASSOCIATION (NCAA)**

Students must present 16 core courses to the **NCAA Initial Eligibility Clearinghouse** upon graduation in order to qualify for aid, practice, and competition in their first year of collegiate enrollment.

The 16 core courses must come from the following areas: English, mathematics, natural/physical science, social science, world language, comparative religion/philosophy, or computer science. The breakdown of core course requirements is listed below. After graduation from high school in the spring, the final certification report, which is based on the academic record from grades 9 through 12, will be evaluated. **Check the NCAA website for more details [www.eligibilitycenter.org](http://www.eligibilitycenter.org).**

### **DIVISION 1**

#### **16 Core-Course Requirements**

4 years of English  
3 years of mathematics (*Algebra 1 or higher*)  
2 years of natural/physical science (*1 year of lab if offered*)  
1 year of additional English, math, or natural/physical science  
2 years of social science  
4 years of additional courses (*from any area above or world language, comparative religion/philosophy*)

### **DIVISION 2**

#### **14 Core Courses**

3 years of English  
2 years of mathematics (*Algebra 1 or higher*)  
2 years of natural/physical science (*1 year of lab if offered*)  
2 year of additional English, math, or natural/physical science  
2 years of social science  
3 years of additional courses (*from any area above or world language, comparative religion/philosophy*)

## **COMMUNITY SERVICE REQUIREMENT**

All students must document completion of a minimum of **30 hours of community service**. Forms, information, and opportunities are available in the Counseling Office. **Community Service Handbooks** are distributed to grade 8 students and given to all new students during registration. Students who transfer to HKHS are expected to document 7.5 hours of community service for each year or part of a year of attendance. Transfer students may submit documented community service hours from their previous school(s) and *may* receive credit *if* it fits our criteria.



## **Naviance Website**

Remember to use Naviance for college and career planning. Check with your counselor for your login and password. To access the website please use the following steps:

- 1.) Go to [www.rsd17.org](http://www.rsd17.org)
- 2.) Click on Haddam-Killingworth High School
- 3.) Click on School Counseling Website
- 4.) Once on our website, look under "General Info" & click on "Naviance"

## **On-Line Learning**

Virtual/on-line courses delivered over the internet allow students the opportunity to enroll in classes that are unique to their career goals, allow for credit recovery, and provide course opportunity when scheduling is a problem. Homework assignments are submitted electronically and all communication with the teacher occurs via electronic media. These courses require a student to work independently. **Courses are monitored by the Library Media Specialist or a specified general teacher.**

## **OPPORTUNITIES TO EARN COLLEGE CREDIT**

### **PROJECT LEAD THE WAY (PLTW)**

**Project Lead The Way** is an innovative, pre-engineering and technology education partnership program specially developed for secondary schools. PLTW includes a certification process wherein students can earn college credit in all PLTW classes (except Engineering Design & Development). To receive college credit, students must achieve an 85% or better in the course and a (1-9 scale) or higher on the final exam.

21004PL Principles of Engineering  
21008PL Digital Electronics  
21010PL Computer Science Principles  
21014PL Environmental Sustainability

21006PL Introduction to Engineering Design  
21012PL Civil/Architectural Engineering  
21007H Engineering Design and Development

### **COLLEGE CAREER PATHWAYS (CCP)**

College Career Pathways is a planned program of studies in which students may earn Middlesex Community College (MxCC) credit. Pending approval from Middlesex Community College, students must submit applications in the spring prior to the school year when they are enrolled in the class. Students must earn a C or better to earn college credit. The student may request a MxCC transcript for review by another college in which they enroll. It is always at the discretion of the receiving college whether or not to accept the credits.

11051MX Video Digital Communication

## **ADVANCED PLACEMENT (AP)**

Students may wish to enroll in Advanced Placement courses for the purpose of pursuing college level studies in a specific content area. Students taking AP courses must register for the May Advanced Placement Test, conducted by Educational Testing Service. All fees for the testing program are paid by the student. Students may request that these test scores be reported to the college in which the student has decided to enroll. The college determines whether the student is awarded college credit for the AP course as a result of the test. AP courses are planned in the following areas:

1005AP English: Language and Composition	2203AP Statistics	4256AP Psychology
1006AP English: Literature and Composition	2124AP AP Calculus AB	3106 AP Chemistry
6112 AP Spanish: Language and Culture	4004AP Human Geography	3056 AP Biology
6132AP French: Language and Culture	4104AP U.S. History	02125 AP Calculus BC
5171AP Studio Art: Drawing, 2-D Design or 3-D Design	5114AP Music Theory	

## **UNIVERSITY OF CONNECTICUT: EARLY COLLEGE EXPERIENCE (ECE)**

University of Connecticut classes provide students the opportunity to take college courses while still in high school. All fees are paid by the student. Registration is held each spring prior to the year the course will be taken.

ECE instructors, who are certified as adjunct professors by UConn faculty, create a classroom environment fostering independent learning, creativity, and critical thinking—all pivotal for success in college. To support rigorous learning, University of Connecticut library resources are also available to students.

**ECE students must successfully complete the course with a grade of C or better in order to receive university credit. University credits are sometimes transferable to other universities.** The student may request a ECE transcript for review by another college in which they enroll. It is always at the discretion of the receiving college whether or not to accept the credits. **Students are charged a per credit fee. For additional information visit: [www.ece.uconn.edu](http://www.ece.uconn.edu). The following courses are available:**

6108UC	UConn Spanish: Spanish Conversation: Cultural Topics (SPAN3179)
6109UC	UConn Spanish: Intermediate Spanish Composition (SPAN 3178)
6128UC	UConn French: Global Culture in French (FREN 3250)
3207UC	UConn Natural Resources & the Environment: Environmental Science (NRE 1000)
18052UC	UConn Horticulture: Fundamentals of Horticulture (HORT 1110)
3155UC	UConn Physics: General Physics 1 (PHYS 1201Q) – <i>full year</i>
3156UC	UConn Physics: General Physics 1 (PHYS 1201Q) – <i>fall semester</i> General Physics 2 (PHYS 1202Q) – <i>spring semester</i>

**IMPORTANT:** Students must realize that the Region 17 Board of Education reserves the right to cancel any course with insufficient enrollment. In those cases, students will be asked to pick alternate courses or obtain another course recommendation from their teacher. Students must also realize that in many cases two courses will meet in one period only; thus, if two courses meet only during that same time period, one course must be dropped and an alternative selected.

## Course Offerings Recommended by Grade Level

### Art Offerings

Number	Course Name	Grade 9	Grade 10	Grade 11	Grade 12
5154	Introduction to Studio Art	x	x	x	x
51561/51562	Drawing Studio 1 & 2	x	x	x	x
51571	Painting Studio		x	x	x
5163	Introduction to Photography	x	x	x	x
5165	Crafts Studio	x	x	x	x
5158	Sculpture Studio	x	x	x	x
5159	Ceramics Studio	x	x	x	x
5167	Darkroom Photography		x	x	x
5199	Advanced Ceramic Studio		x	x	x
5169	Digital Photography		x	x	x
5197H	Advanced Art Projects Honors		x	x	x
5170H	Art Portfolio Honors			x	x
5171AP	AP Studio Art – Drawing, 2-D Design, or 3-D Design			x	x

### Broadcast Communications Offerings

Number	Course Name	Grade 9	Grade 10	Grade 11	Grade 12
11055	Intro to Digital and Media Production	x	x	x	x
11103	Advanced Video Digital Communication MX		x	x	x
11997	Event Broadcast Production – Independent Study		x	x	x
11105	Journalism and Broadcasting	x	x	x	x

### English Offerings

Number	Course Name	Grade 9	Grade 10	Grade 11	Grade 12
1001	English/Language Arts 9	x			
1001H	English/Language Arts 9 Honors	x			
1002	English/Language Arts 10		x		
1002H	English/Language Arts 10 Honors		x		
1052	English/American Literature 11			x	
1054H	English/American Literature 11 Honors			x	
1005AP	AP English: Language and Composition			x	
1102	English/Composition and Literature 12				x
1058H	World Literature 12 Honors				x
1056H	British Literature Honors				x
1006AP	AP English: Literature and Composition				x
1104	Creative Writing			x	x
11105	Journalism and Broadcasting	x	x	x	x
1065	English: Media Literacy			x	x
01061	Film			x	x
1152H	Modern Novel			x	x
1151	Speech & Debate			x	x

### Family and Consumer Science Offerings

Number	Course Name	Grade 9	Grade 10	Grade 11	Grade 12
19052	Introduction to Child Development	x	x	x	x
22204	Infant and Toddler Growth and Development	x	x	x	x
19051A	Early Childhood Laboratory Experience		x	x	x
19098	Early Childhood Education Internship			x	x

Number	Course Name	Grade 9	Grade 10	Grade 11	Grade 12
16053	Food Service 1 – Introduction		x	x	x
16056	Food Service 2 – International Cuisine			x	x

**History and Social Science Offerings**

Number	Course Name	Grade 9	Grade 10	Grade 11	Grade 12
4060	World History 1: Through Middle Ages	x			
4060H	World History 1 Honors: Through Middle Ages	x			
4053	World History 2: From Middle Ages		x		
4053H	World History 2 Honors: From Middle Ages		x		
4101	U. S. History and Civics		x	x	x
4101H	U. S. History and Civics Honors		x	x	x
4104AP	AP U. S. History and Civics			x	x
4165	Criminal Justice			x	x
4258	Introduction to Sociology			x	x
4254	Psychology			x	x
4256AP	AP Psychology			x	x
4001	World Geography			x	x
4004AP	AP Human Geography				x
4107	African American/Black and Puerto Rican/Latino Studies			x	x

**Mathematics Offerings**

Number	Course Name	Grade 9	Grade 10	Grade 11	Grade 12
2052	Algebra 1	x			
2071	Geometry	x	x		
2072H	Geometry Honors	x	x		
2056	Algebra 2		x	x	x
2056H	Algebra 2 Honors		x	x	x
2155	Personal Finance			x	x
2201	Probability and Statistics			x	x
2203AP	AP Statistics			x	x
2110	Pre-Calculus			x	x
2110H	Pre-Calculus Honors			x	x
2124AP	AP Calculus AB				x
02125AP	AP Calculus BC				x

**Music Offerings**

Number	Course Name	Grade 9	Grade 10	Grade 11	Grade 12
5110	Concert Choir	x	x	x	x
5110H	Concert Choir Honors	x	x	x	x
5111H	Select Choir Honors: Swing 14		x	x	x
5119	Music Technology and Production		x	x	x
5113	Music Theory		x	x	x
5114AP	AP Music Theory			x	x
5102	Concert Band	x	x	x	x
5102H	Concert Band Honors	x	x	x	x
5105	Jazz Band		x	x	x
5105H	Jazz Band Honors		x	x	x
5108	Guitar Class for Beginners	x	x	x	x
5107	Piano and Keyboard	x	x	x	x

**Physical Education and Health Offerings**

Number	Course Name	Grade 9	Grade 10	Grade 11	Grade 12
8001A	Physical Education 1	x	x	x	x
8051	Health Education 1	x			
08057	Health Education 2			x	
8016	Lifetime Fitness		x	x	x
8009	Strength and Conditioning		x	x	x
8007	Unified Physical Education		x	x	x
8002	Team Games		x	x	x

### Science Offerings

Number	Course Name	Grade 9	Grade 10	Grade 11	Grade 12
3201	Integrated Science	x			
3051	Biology		x		
3051H	Biology Honors	x	x		
3056AP	AP Biology		x	x	x
3101	Chemistry			x	x
3101H	Chemistry Honors		x	x	
3106AP	AP Chemistry			x	x
3159	Physical Science			x	x
3151	Physics			x	x
3155UC	UConn Physics (PHYS1201Q)			x	x
3156UC	UConn Physics (PHYS1202Q)			x	x
3207UC	UConn Environmental Science (NRE 1000)			x	x
3053H	Anatomy and Physiology Honors			x	x
3005A	Marine Science 1A			x	x
21014PL	Environmental Sustainability		x	x	x
3202	Forensic Science			x	x
3004	Astronomy		x	x	x
18052UC	UConn Fundamentals of Horticulture (SPSS 1110)			x	x

### Technology Education Offerings

Number	Course Name	Grade 9	Grade 10	Grade 11	Grade 12
11154	Graphic Communications 1	x	x	x	x
11155	Graphic Communications 2	x	x	x	x
21006PL	PLTW Introduction to Engineering Design (IED)	x	x	x	x
21004PL	PLTW Principles of Engineering (POE)		x	x	x
21012PL	PLTW Civil Engineering/Architecture		x	x	x
21008PL	PLTW Digital Electronics		x	x	x
21007H	PLTW Engineering Design and Development (EDD) Honors				x
21010PL	PLTW Computer Science Principles (CSP)		x	x	x
13202	Technical Metals	x	x	x	x
17006	Woodworking 1	x	x	x	x
13054	Advanced Wood Projects and Construction	x	x	x	x
20110	Small Engines	x	x	x	x
20103	Basic Automotive Systems		x	x	x
20106	Advanced Automotive			x	x
13203	Tech Metals 2		x	x	x

### World Language Offerings

Number	Course Name	Grade 9	Grade 10	Grade 11	Grade 12
66100	Beginning Spanish Conversation	x	x	x	x
66101	Spanish 1	x	x	x	x
66102	Spanish 2	x	x	x	x
6103	Spanish 3	x	x	x	x
6103H	Spanish 3 Honors	x	x	x	x
6104	Spanish 4		x	x	x
6104H	Spanish 4 Honors		x	x	x
6108UC	UConn: Spanish Conversation: Cultural Topics (SPAN 3179)			x	x
6109UC	UConn Spanish: Intermediate Spanish Composition (SPAN 3178)			x	x
6112AP	AP Spanish Language and Culture				x
6123	French 3	x	x	x	x
6123H	French 3 Honors	x	x	x	x
6124	French 4		x	x	x
6124H	French 4 Honors		x	x	x
6128UC	UConn French – Global Culture in French I (FREN 3250)			x	x
6132AP	AP French Language and Culture				x

# CAREER/COLLEGE MAJOR COURSE SUGGESTIONS

## Allied Health: Dentistry, Nursing, Medical

Course Number	Course Name
4254, 4256AP	Psychology (at recommended level)
4258	Introduction to Sociology
2052	Algebra 1
2056	Algebra 2
2071, 2072H	Geometry (at recommended level)
2201, 2203AP	Probability and Statistics (at recommended level)
3051, 3051H, 3056AP	Biology (at recommended level)
3101, 3101H, 3106AP	Chemistry (at recommended level)
3053H	Anatomy and Physiology Honors
21014PL	PLTW Environmental Sustainability
	World Language: 2 years or more of French or Spanish (at recommended level)
16053	Food Service 1-Introduction
16056	Food Service 2 – International Cuisine
8009	Strength and Conditioning
8016	Lifetime Fitness
8002	Team Games
8051	Health Education 1
08057	Health Education 2

## Arts/Communications

Course Number	Course Name
1104	Creative Writing
11055	Intro to Digital Communications
11103	Advanced Video/Digital Communications MX
11997	Event Broadcast Production – Independent Study
11105MX	Journalism and Broadcasting
5110	Concert Choir
5111H	Select Choir Honors: Swing 14
5102, 05102H	Concert Band
5105	Jazz Band
5107	Piano/Keyboard
5108	Guitar Class for Beginners
5114AP	AP Music Theory
5119	Music Technology
5154	Introduction to Studio Art
51561/51562	Drawing Studio 1 & 2
51571/51572	Painting Studio 1 & 2
5159	Ceramics Studio
5165	Crafts Studio
5163	Introduction to Photography
5167	Black and White Photography
5169	Digital Photography
5197H	Advanced Art Projects Honors
5170H	Art Portfolio Honors
5171AP	AP Studio Art-Drawing, 2-D Design, or 3-D Design
11154/11155	Graphic Communication 1 & 2

## Automotive/Construction/Mechanical

Course Number	Course Name
2056	Algebra 2
2071, 2072H	Geometry (at recommended level)
3159	Physical Science
3151, 3155UC, 3156UC	Physics (at recommended level)
20103	Basic Automotive Systems
20106	Advanced Automotive
20110	Small Engines
13202	Technical Metals
17006	Woodworking 1
13054	Woodworking 2
13054	Advanced Wood Projects and Construction
	World Language: 2 years or more of French or Spanish (at recommended level)

## Business

Course Number	Course Name
4254	Psychology (at recommended level)
2458	Introduction to Sociology
2201, 2203AP	Probability & Statistics (at recommended level)
2155	Financial Algebra
	World Language: 2 years or more of French or Spanish (at recommended level)

## Criminal Justice/Pre-Law

Course Number	Course Name
4101, 4101H	U. S. History and Civics (at recommended level)
4004AP	AP Human Geography
4165	Criminal Justice
4001	World Geography
4254, 4256AP	Psychology (at recommended level)
4258	Introduction to Sociology
2201, 2203AP	Probability & Statistics (at recommended level)
2155	Financial Algebra
3151, 3155UC, 3156UC	Physics (at recommended level)
3202	Forensic Science
	World Language: 2 years or more of French or Spanish (at recommended level)

## Education

Course Number	Course Name
1104	Creative Writing
1065	English: Media Literacy
4254, 4256 AP	Psychology (at recommended level)
4258	Introduction to Sociology
2052	Algebra 1
2071, 2072H	Geometry (at recommended level)
2056, 2056H	Algebra 2 (at recommended level)
3051, 3051H, 3056	Biology (at recommended level)
3159	Physical Science
19052	Introduction to Child Development
22204	Infant and Toddler Growth and Development
19051	Early Childhood Laboratory Experience
19098	Early Childhood Internship
5165	Crafts Studio
	World Language: 3 years or more of French or Spanish (at recommended level)
5163	Introduction to Photography
2201, 2203 AP	Probability and Statistics (at recommended level)

## Engineering/Architecture

Course Number	Course Name
2201, 02203AP	Probability and Statistics (at recommended level)
2110, 02110H	Pre-Calculus (at recommended level)
2124AP	AP Calculus AB
02125AP	AP Calculus BC
3159	Physical Science
3151	Physics (at recommended level)
21010PL	Computer Science Principles
3207UC	UConn Environmental Science (NRE 1000)
21006PL	Introduction to Engineering Design (IED)
21004PL	Principles of Engineering (POE)
21012PL	Civil Engineering/Architecture
21008PL	Digital Electronics Honors
21007H	Engineering Design and Development (EDD) Honors
11154	Graphic Communications 1
20110	Small Engines
20103	Basic Automotive Systems
13202	Technical Metals
17006	Woodworking 1
51561/51562	Drawing Studio 1 & 2

## Environmental Science

Course Number	Course Name
4001, 4004AP	World Geography
2201, 2203 AP	Probability and Statistics (at recommended level)
2110, 2110H	Pre-Calculus (at recommended level)
2124AP	AP Calculus AB
02125AP	AP Calculus BC
3051, 3051H, 3056	Biology (at recommended level)
3101, 3101H, 3106	Chemistry (at recommended level)
3151	Physics (at recommended level)
3005A, 3005B	Marine Science 1A, 2B
3207UC	UConn Environmental Science
21010PL	Computer Science Principles
21014PL	PLTW Environmental Sustainability
3004	Astronomy
18052UC	UConn Fundamentals of Horticulture
	World Language: 2 years or more of French or Spanish (at recommended level)

## Undeclared/Liberal Arts

Course Number	Course Name
1104	Creative Writing
4101, 4101H	U.S. History and Civics (at recommended level)
4165	Criminal Justice
4004AP	AP Human Geography
4254, 4256AP	Psychology (at recommended level)
4258	Introduction to Sociology
2201, 2203AP	Probability and Statistics (at recommended level)
3051, 3051H, 3056	Biology (at recommended level)
3101, 3101H, 3056AP	Chemistry (at recommended level)
3159	Physical Science
3207UC	UConn Environmental Science (NRE 1000)
3202	Forensic Science
	World Language: 2 years or more of French or Spanish (at recommended level)
19052MX	Introduction to Child Development
22204	Infant and Toddler Growth and Development
19051B	Early Laboratory Experience
19051A	Infant and Toddler Laboratory Experience
19098	The Early Childhood Education Internship

## Psychology/Counseling

Course Number	Course Name
2052	Algebra 1
2071, 2072H	Geometry (at recommended level)
2056, 2056H	Algebra 2 (at recommended level)
2201, 2203AP	Probability and Statistics (at recommended level)
22204	Infant and Toddler Growth and Development
3051, 3051H, 3056	Biology (at recommended level)
4258	Introduction to Sociology
4254, 4256AP	Psychology (at recommended level)
3207UC	UConn Environmental Science (NRE 1000)
1151MX	Speech and Debate
4004AP	AP Human Geography
	World Language: 2 years or more of French or Spanish (at recommended level)

# ENGLISH DEPARTMENT

## PHILOSOPHY

The English Department prepares students for personal and professional success by teaching strategies that develop critical insight for interpreting and conveying meaning through the written word and through visual and aural mediums. Students will develop appreciation for the English language by analyzing complex literature and applying their skills to read, write, listen, view and speak effectively in a wide variety of contexts.

### CORE COURSES

<b>1001 ENGLISH/LANGUAGE ARTS 9</b>	<b>9</b>	<b>1.0</b>
<b>1001H ENGLISH/LANGUAGE ARTS 9 HONORS</b>	<b>9</b>	<b>1.0</b>

**Prerequisites:** None

This course expands and extends the English language skills acquired in middle school, and begins the exploration of canonical and modern literature. Students study short stories, novels, plays, poetry, and nonfiction. They write analytical essays, creative literary responses, and academic research papers. Particular emphasis is placed on broadening vocabulary, close reading, and writing the thesis-driven paper.

<b>1002 ENGLISH/LANGUAGE ARTS 10</b>	<b>10</b>	<b>1.0</b>
<b>1002H ENGLISH/LANGUAGE ARTS 10 HONORS</b>	<b>10</b>	<b>1.0</b>

**Prerequisites:** English 9 and Teacher Recommendation

English 10 continues the development of the skills acquired in English 9 through the examination of increasingly rigorous texts. Short stories, novels, plays, poetry, and essays by classic and contemporary authors are all in the curriculum. Particular emphasis is placed on analytical writing, but students will also apply composition skills to a broad array of different tasks.

<b>1052 ENGLISH/AMERICAN LITERATURE 11</b>	<b>11</b>	<b>1.0</b>
<b>1054H ENGLISH/AMERICAN LITERATURE 11 HONORS</b>	<b>11</b>	<b>1.0</b>

**Prerequisites:** English 10 and Teacher Recommendation

The focus of this course is American Literature in its historical context. Students improve their critical-thinking skills as they determine the underlying assumptions and values within selected works and as they understand how the literature reflects the society of the time. Composition assignments focus on clarity of written expression and development of the essay. Grammar, mechanics, and vocabulary study are included.

<b>1005AP AP ENGLISH: LANGUAGE AND COMPOSITION</b>	<b>11</b>	<b>1.0</b>
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**Prerequisites:** Teacher Recommendation

This course is an intensive, college-level study of the art of rhetoric and craft of expository composition. The concentration is on scholarly essays, news articles, and journals written in a variety of periods, disciplines, and rhetorical contexts, and emphasizes the interaction of authorial purpose, intended audience, and subject. Students practice rhetorical analysis and argumentation, and develop flexible composition and critical thinking skills that prepare them for the rigors of college. *[Students will read and take notes on three pieces of literature in the summer prior to the start of AP English.]*

**All students must take the AP English Language and Composition Exam in the spring.**



## **\*ELECTIVES**

**\*Seniors must choose a 1.0 credit class from the courses listed below with an (\*) to fulfill their Grade 12 English graduation requirement.**

<b>1102 ENGLISH/COMPOSITION AND LITERATURE 12 *</b>	<b>12</b>	<b>1.0</b>
<b>1058H WORLD LITERATURE 12 HONORS*</b>	<b>12</b>	<b>1.0</b>

**Prerequisites:** Teacher Recommendation

This course is a study of world literature. Students will read and critically examine novels, short stories, plays, poems, and non-fiction from a variety of cultures and time periods. Students will write extensively and participate in discussions on all of the material read for class. Research projects and independent reading are also required.

<b>1056H BRITISH LITERATURE HONORS *</b>	<b>11-12</b>	<b>1.0</b>
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**Prerequisites:** Teacher Recommendation

British Literature explores masterpieces from the British literary canon, along with contemporary British works. Selected poetry, drama, and prose of major writers will be studied in relation to their respective time periods. Students will participate in seminar discussion, as well as a variety of creative hands-on projects and special events. More than just the study of British Literature, students will be given some college level tasks in order to better prepare them for post-secondary English courses.

<b>1006AP AP ENGLISH: LITERATURE AND COMPOSITION *</b>	<b>12</b>	<b>1.0</b>
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**Prerequisites:** Teacher Recommendation

This intensive, college-level course in the humanities examines a diverse array of prose fiction, poetry, drama, and nonfiction from around the globe and from ancient times to the present. It prepares students to think critically, write effectively, and approach our world with an inquiring and discerning mind. An integral and especially rewarding part of the course is participation in the Wesleyan University High School Humanities lecture series. Students may also attend performances by professional theatre companies. ***Students must read and complete work on three major pieces of literature the summer prior to the start of the course.***  
**Students must take the AP Literature and Composition Exam in the spring.**

<b>1104 CREATIVE WRITING *</b>	<b>11-12</b>	<b>1.0</b>
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**Prerequisites:** Teacher Recommendation

Creative Writing is a workshop course that teaches students how to harness their experiences, observations, memories, and imaginations to create short stories, poems, creative non-fiction, plays, and more. Students will be expected to write daily, read extensively, participate in class discussions, share their work, undertake the revision process, collaborate with peers, and produce several pieces of finished work.

<b>11105 JOURNALISM AND BROADCASTING</b>	<b>9-12 0.5 English &amp; 0.5 Voc./Tech</b>
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**Prerequisites:** 10-12 None; Grade 9 needs Grade 8 Language Arts Teacher Recommendation

This course provides a real-world experience in the production of print, web-based, and broadcast journalism. The class will be taught by two instructors and students will alternate between print and video journalism units. Students will develop team-building skills while working as a staff to produce the school newspaper, a newspaper website, and a video news show for H-KTV. Students will develop their practical communication skills through writing, editing, computer design, photography, videography, and video editing.

***This course will be offered in alternate years. It will be offered 2022-2023.***

**1065 ENGLISH: MEDIA LITERACY \*****11-12****1.0****Prerequisites:** Teacher Recommendation

Students will explore a variety of media (websites, film, television, print, and advertisements). Students will understand how the media employ common persuasive techniques and cognitive biases, including stereotypes, vocabulary, and stylistic choices to inform, manipulate, and influence consumers. In particular, students will be able to detect misinformation and identify credible information sources. Students will read a variety of texts and produce written assignments related to the media, including original advertising campaigns, persuasive letters, and analytical research projects.

**01061 FILM\*****Prerequisites:** Teacher Recommendation**11-12****1.0**

Students will explore the medium of film, from the early silent years through the modern Hollywood era. Particular attention will be given to the “language” of film through an exploration of a variety of genres, focusing on the film elements of editing, lighting, sound, composition, and mis-en-scene. Students will complete extensive readings and produce written assignments related to film (essays, reviews, and research projects), and students complete an integrated research project synthesizing film & art critique.

***This course will be offered in alternate years. It will not be offered 2022-2023. It will be offered 2023-2024.***

**1151 SPEECH AND DEBATE\*****Prerequisites:** Teacher Recommendation**11-12****1.0**

This course is designed to help students improve their performance across a variety of authentic communication situations, including speeches, academic debates, panel discussions, sales pitches, and press conferences. Students will employ writing, analysis, revision, and research in preparation for each presentation. Also, they will participate in several in-class debate tournaments and study how to manage unresponsive, difficult, or hostile audiences.

**1152H MODERN NOVEL\*****11-12****1.0****Prerequisites:** Teacher Recommendation

Modern Novel is situated as an elective in the English Department open to junior and senior-year students. This course is a reading-intensive study of texts with publication dates within the past five-ten years. In conjunction with the study of modern works, students will also study the contextual and symptomatic meanings that comprise the main ideas of the novels they read as well as shape the lives of the authors who penned these works. Since these issues are fluid and ever-developing, the material for these texts will often be pulled from the headlines, keeping students in touch with their world.

***This course will be offered in alternate years. It will be offered 2022-2023.***

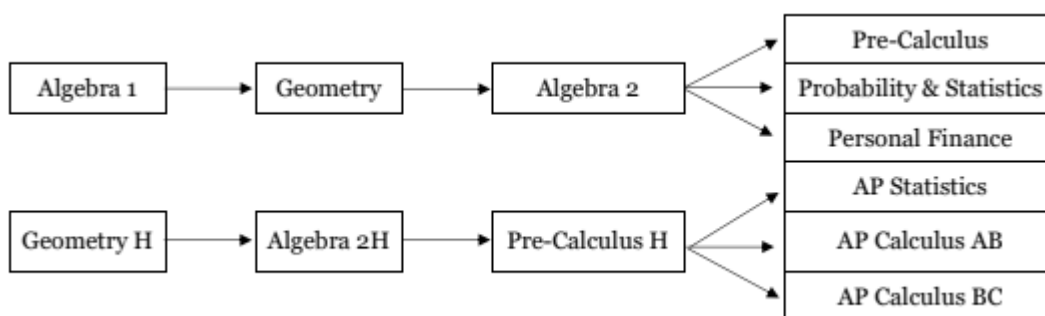
# MATHEMATICS DEPARTMENT

## PHILOSOPHY

The objective of the mathematics program is to ensure that all students acquire the mathematical skills necessary to be successful after high school in a college or career setting. Through mathematics, students will acquire the ability to function in a society increasingly dominated by technology and quantitative methods. Students will become mathematically literate and be capable of extending their learning, and to become informed citizens capable of understanding issues in a technological society.

Our math program provides a variety of courses to meet the needs of the individual student. Students should select a sequence of courses at a level which provides the maximum challenge, is consistent with the student's ability, and which will be appropriate to his/her future educational and career goals.

### COURSE OFFERINGS AND SUGGESTED SEQUENCES



**\*NOTE ABOUT CALCULATORS:** We strongly recommend that any student taking a math class have a Texas Instruments graphing calculator (i.e. TI-84 or TI-84+).

#### 2052 ALGEBRA 1

9

1.0

**Prerequisites:** Pre-Algebra **AND** Teacher Recommendation

The Algebra 1 curriculum is aligned with the Common Core State Standards for Mathematics. Work is based on the big ideas of algebra, conceptual understandings, real world applications, hands-on experiences gathering data, and appropriate uses of technology. The Curriculum is organized into units which include a variety of investigations and activities that engage students in active learning. Unit topics include patterns, equations, inequalities, systems of equations, scatter plots, trend lines, and functions (linear, exponential, quadratic). Students will find this curriculum engaging, relevant, and accessible.

#### 2071 GEOMETRY

9-10

1.0

**Prerequisites:** Algebra 1 **AND** Teacher Recommendation

Geometry emphasizes a practical approach to the study of geometry and de-emphasizes an abstract, formal approach. Topics include properties of plane and solid figures, inductive and deductive methods of reasoning, concepts of measurement (including algebra), congruence, similarity, parallelism, perpendicularity, and proportion as well as the multiple rules of angle measurement in triangles.

<b>2072H GEOMETRY HONORS</b>	<b>9-10</b>	<b>1.0</b>
<b>Prerequisites:</b> Algebra 1 <b>AND</b> Teacher Recommendation		
Geometry Honors emphasizes an abstract, formal approach to the study of geometry, including topics such as properties of plane and solid figures; deductive methods of reasoning and use of logic; geometry as an axiomatic system including the study of postulates, theorems, and formal proofs; concepts of congruence, similarity, parallelism, perpendicularity, and proportion; and rules of angle measurement in triangles.		
<b>2056 ALGEBRA 2</b>	<b>10-12</b>	<b>1.0</b>
<b>2056H ALGEBRA 2H</b>	<b>10-12</b>	<b>1.0</b>
<b>Prerequisites:</b> Geometry <b>AND</b> Teacher Recommendation		
Algebra 2 course topics include (but are not limited to) operations with rational and irrational expressions, factoring of rational expressions, linear equations and inequalities, quadratic equations, polynomial functions, solving systems of equations, operations with rational exponents, exponential, and logarithmic functions.		
<b>21553 PERSONAL FINANCE</b>	<b>11-12</b>	<b>0.5</b>
<b>Prerequisites:</b> Algebra 2 <b>AND</b> Teacher Recommendation		
Personal Finance reinforces and applies algebraic concepts in a variety of business and financial situations. Applications include insurance, credit, banking, taxation, stocks, bonds, finance, wages, hourly rates, payroll deductions, sales, receipts, and financial reports. In addition, individual management skills such as home and/or car ownership and rental, managing personal income, and investment are studied.		
<b>2201 PROBABILITY AND STATISTICS</b>	<b>11-12</b>	<b>1.0</b>
<b>Prerequisites:</b> Algebra 2 <b>AND</b> Teacher Recommendation		
The Probability and Statistics course focuses on descriptive statistics, with an introduction to inferential statistics. Topics include event probability, normal probability distribution, collection and description of data, frequency tables and graphs, measures of central tendency and variability, random variables, and random sampling. In addition, students study correlation, central limit theorem, confidence intervals, and hypothesis testing. This course incorporates an emphasis on reading, writing, and analysis. This course is strongly suggested for Humanities and Education college majors.		
<b>2203AP AP STATISTICS</b>	<b>11-12</b>	<b>1.0</b>
<b>Prerequisites:</b> Algebra 2 <b>AND</b> Teacher Recommendation		
Following the College Board's curriculum designed to parallel college-level probability & statistics courses, AP Probability & Statistics focuses on descriptive statistics, with an introduction to inferential statistics. Topics include event probability, normal probability distribution, collection and description of data, frequency tables and graphs, measures of central tendency and variability, random variables, and random sampling. In addition, students study correlation, central limit theorem, confidence intervals, and hypothesis testing. This course is strongly suggested for Humanities and Education college majors. <b><i>[Students will complete a summer assignment prior to starting AP Statistics in the fall.]</i></b>		
<b><u>All students must take the AP Statistics Exam in the spring.</u></b>		

<b>2110 PRE-CALCULUS</b>	<b>11-12</b>	<b>1.0</b>
<b>2110H PRE-CALCULUS HONORS</b>	<b>11-12</b>	<b>1.0</b>

**Prerequisites:** Algebra 2 **AND** Teacher Recommendation

Pre-calculus combines the study of trigonometry, elementary functions, analytic geometry, and math analysis topics as preparation for calculus. Topics include the study of complex numbers, relations, inverses and graphs of polynomial, logarithmic, exponential, rational, right trigonometric, and circular functions; trigonometric identities and equations; solutions of right and oblique triangles; and vectors. This course is suggested for engineering, science, and math related college majors.

<b>2124AP AP CALCULUS AB</b>	<b>12</b>	<b>1.0</b>
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**Prerequisites:** Pre-Calculus **AND** Teacher Recommendation

Following the College Board's suggested curriculum designed to parallel college-level calculus courses, AP Calculus AB provides students with an intuitive understanding of the concepts of calculus and experience with its methods and applications. This course introduces calculus and includes the following topics: elementary functions; properties of functions and their graphs; limits and continuity; differential calculus (including definition of the derivative, derivative formulas, theorems about derivatives, geometric applications, optimization problems, and rate-of-change problems); and integral calculus (including antiderivatives and the definite integral). This course is suggested for engineering, science, and math related college majors.

**All students must take the AP Calculus AB Exam in the spring.**

***[Students will complete a summer assignment prior to starting AP Calculus AB in the fall.]***

#### **02125 AP CALCULUS BC**

**Prerequisites:** Pre-Calculus Honors **AND** teacher recommendation

AP Calculus BC encompasses all topics of AP Calculus AB with additional topics including applications of integration, an introduction to differential equations, transcendental functions, techniques of integration, and infinite series. Students in this course will be prepared for and are required to take the AP Calculus BC exam. This course is suggested for engineering, science, and math related college majors.

**All students must take the AP Calculus BC Exam in the spring.**

***[Students will complete a summer assignment prior to starting AP Calculus BC in the fall.]***

# SCIENCE DEPARTMENT

## PHILOSOPHY

Understanding the structure and function of matter and the relationships between the building blocks of nature and the universe helps us appreciate our world and contribute effectively as global citizens. Our science program is infused with a wide variety of technology and is designed to offer a challenging and comprehensive overview of fundamental science principles. Along with core scientific concepts, the science department offers elective courses in specialty fields that provide a personalized experience for our students.

*\*\*If you are taking Honors Biology and Algebra 1 as a Freshmen, please be aware that in future years your math and science course levels will not be aligned. For example, as a Sophomore, you will take Honors Chemistry and need Algebra 2 for this course. This would require taking both Geometry and Algebra 2 as a Sophomore. However, you make take College Prep Chemistry with only Geometry. \*\**

## CORE COURSES

### **32011 INTEGRATED SCIENCE**

**9**

**1.0**

**Prerequisites:** Grade 8 Teacher Recommendation

This course is an inquiry-based science class which is aligned to Next Generation Science Standards (NGSS). Students participate in a number of hands-on learning opportunities to support the various concepts discussed in the class. Throughout the year, students will investigate topics such as evidence of the Big Bang and life cycle of stars, planetary motion, changes in the Earth's surface, global climate change, and human impact.

### **3051 BIOLOGY**

**10-11**

**1.0**

### **3051H BIOLOGY HONORS**

**9-10**

**1.0**

**Prerequisites:** Integrated Science **AND/OR** Grade 8 Teacher Recommendation

This course is an inquiry-based science class which is aligned to Next Generation Science Standards (NGSS). Students participate in a number of hands-on learning opportunities to support the various concepts discussed in the class. Throughout the year, students will investigate topics such as energy and matter in living organisms, ecosystems, genetics, natural selection and biodiversity. Biology Honors will cover topics in greater depth.

### **3056AP AP BIOLOGY**

**10-12**

**1.0**

**Prerequisites:** Biology and Chemistry (can be concurrent) **AND** Teacher Recommendation

AP Biology explores major biological concepts and themes. This course covers four big ideas, evolution drives the diversity and unity of life, biological systems utilize free energy, living systems store, retrieve, transmit, and respond to information, biological systems interact. AP Biology includes college-level laboratory experiments.

***[Students will complete a summer packet prior to starting AP Biology in the fall.]***

**All students must take the AP Biology Exam in the spring.**

**3101 CHEMISTRY** **11-12** **1.0**

**3101H CHEMISTRY HONORS** **10-11** **1.0**

**Prerequisites:** Biology, Geometry (can be concurrent), (Algebra 2 for Honors) **AND** Teacher Recommendation

This course is an inquiry-based science class which is aligned to Next Generation Standards (NGSS). Chemistry involves studying the composition, properties, and reactions of substances. This course explores the concepts related to the behaviors of solids, liquids, and gases, acid/base and oxidation/reduction reactions, and atomic structure. Chemical formulas and equations and nuclear reactions are also studied. The course will incorporate discussions, experiments, math computations, and simulations. A strong foundation in algebra is highly recommended. Chemistry Honors will cover topics in greater depth with highly complex mathematical computations.

**3106AP AP CHEMISTRY** **11-12** **1.0**

**Prerequisites:** Chemistry, Algebra 2 (can be concurrent) **AND** Teacher Recommendation

Following the curricula recommended by the College Board, this course covers topics which include atomic theory and structure; chemical bonding; nuclear chemistry; states of matter; and reactions (stoichiometry, equilibrium, kinetics, and thermodynamics). AP Chemistry laboratories are equivalent to those of typical college courses. *[Students will complete a summer packet prior to starting AP Chemistry in the fall.]*

**All students must take the AP Chemistry Exam in the spring.**

**3159 PHYSICAL SCIENCE** **11-12** **1.0**

**Prerequisites:** Integrated Science, Biology

Physical Science is the study of matter and energy and includes topics from both chemistry and physics. This course involves the study of the structures and states of matter. It is an introductory survey course including topics such as forces and motion, forms of energy, gas laws, electromagnetism, and physical and chemical interactions. Students will continue to develop a deeper understanding of the scientific process by using mathematical analysis, logical reasoning and evidence to support conclusions. Students will develop scientific literacy to become knowledgeable citizens.

**3151 PHYSICS** **11-12** **1.0**

**Prerequisites:** Algebra 2 (can be concurrent) **AND** Teacher Recommendation

This Physics course involves the study of the forces and laws of nature affecting matter such as equilibrium, motion, momentum, and the relationships between matter and energy. The study of physics also includes examination of sound, light, magnetic and electric phenomena and topics in modern physics. This course integrates laboratory skills, technology, and mathematics to gather and analyze data to gain an understanding of the behavior of the physical world in which we live. The theoretical development of physics will follow its historical development from the early ideas of Galileo and Newton to the modern ideas of Einstein and Fermi. This course incorporates Blended Learning components including online classroom and collaborative activities.

**3155UC UCONN PHYSICS PHYS1201Q – Full Year** **11-12** **1.0**

**Prerequisites:** Pre-Calculus (can be concurrent, and Honors is strongly recommended) **AND** Teacher Recommendation

UCONN Physics is a rigorous course that is the equivalent of one semester of college physics. This course involves the study of the forces and laws of nature affecting matter such as equilibrium, motion, momentum, the relationships between matter and energy, examination of sound, and thermodynamics. This course emphasizes quantitative explanations of physical phenomena and requires strong algebra, geometry and trigonometry skills. Students who complete this course may qualify for up to four UCONN credits. Please note that students will be charged per course credit by the University of Connecticut.

<b>3155UC UCONN PHYSICS PHYS1201Q (Fall Semester)</b>	<b>11-12</b>	<b>0.5</b>
<b>Prerequisites:</b> Pre-Calculus (can be concurrent, and Honors is strongly recommended) <b>AND</b> Teacher Recommendation		
<b>3156UC UCONN PHYSICS PHYS1202Q (Spring Semester)</b>	<b>11-12</b>	<b>0.5</b>

**Prerequisites:** UConn Physics 120201Q **AND** Teacher Recommendation

UCONN Physics 1202Q is a rigorous course that is the equivalent of a second semester college physics class. This course involves the study of static and current electricity, electromagnetic waves and light, optics, wave and particle behavior of light, nature of the atom and radioactivity, and an introduction to special relativity. This course emphasizes quantitative explanations of physical phenomena and requires strong algebra, geometry and trigonometry skills. Please note that students will be charged per course credit by the University of Connecticut.

<b>3207UC UCONN ENVIRONMENTAL SCIENCE (NRE 1000)</b>	<b>11-12</b>	<b>1.0</b>
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**Prerequisites:** Biology and Chemistry (may be concurrent) **AND** Teacher Recommendation

This UCONN Environmental Science course provides students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, identify and analyze environmental problems (both natural and man-made), evaluate the relative risks associated with the problems, and examine alternative solutions for resolving and/or preventing them. This course requires field trips and several hours outdoors investigating local ecosystems, so students must be able to work independently in this project-based course. Students are required to complete a yearlong independent study and presentation at the end of the year. Participation in Envirothon is required. Students may qualify for three UCONN credits. *[Students will complete a summer packet prior to starting UCONN Environmental Science in the fall.]*

## **SCIENCE ELECTIVES**

<b>3053H ANATOMY AND PHYSIOLOGY HONORS</b>	<b>11-12</b>	<b>1.0</b>
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**Prerequisites:** Chemistry **AND** Teacher Recommendation

This course presents the human body and biological systems in detail. Students learn anatomical terminology, study cells and tissues, explore functional systems (integumentary, skeletal, muscular, nervous, special senses, reproductive and more) with special emphasis on the interrelationships of the various systems. This course will interest those students planning careers in any allied health field, sports medicine, or physical education. Mammalian dissection is an integral part of this course.

<b>18052UC UCONN FUNDAMENTALS OF HORTICULTURE (HORT 1110)</b>	<b>11-12</b>	<b>1.0</b>
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**Prerequisites:** Biology and Chemistry (can be concurrent) **AND** Teacher Recommendation

This course will provide instruction into the broad field of horticulture. Topics in this course include plant structure and function, plant propagation, soil analysis, hydroponics, integrated pest management, as well as greenhouse management, sustainable farming and careers in horticulture. This course requires learning to be done in the classroom, outside on campus, and in the greenhouse, so students must be able to work independently in this project-based course. Students may qualify for three UCONN credits. *[Students will complete a summer packet prior to starting UCONN Fundamentals of Horticulture in the fall.]*



**3005A MARINE SCIENCE 1****11-12****0.5****Prerequisites:** Biology

Students will explore coastal and marine systems. This course will include a study of the physical, chemical, and geological aspects of our oceans. Special emphasis is placed on local maritime connections, along with marine communities, especially those living in and around New England waters. Laboratory activities and fieldwork are integral parts of the course and are required.

**3202 FORENSIC SCIENCE****11-12****0.5****Prerequisites:** Biology

The purpose of this course is to provide students with an introduction to modern methodologies, theoretical understanding and practical application of scientific methods related to forensic science. Forensic Science combines more than one branch of science into a cohesive study and integrates many science disciplines. General scientific concepts are explored, as are the principles underlying the scientific method and experimentation techniques through the collection and analysis of crime scene evidence and exploration of lab analysis techniques. An understanding of the relationship between forensic science and legal studies will also be investigated through case studies, mock crime scene investigations and evidence collection, examination, evaluation and interpretation.

**3004 ASTRONOMY****10-12****0.5****Prerequisites:** Integrated Science

This course offers students the opportunity to study the night sky, solar system, stars, and galaxies. Students will be introduced to astronomic instruments and will explore theories regarding the origin and evolution of the universe, space, and time. Current events and discoveries will also be discussed as applicable. This course is project-based, involving observations, and independent research.

# HISTORY and SOCIAL SCIENCES DEPARTMENT

## PHILOSOPHY

Students educated for informed and active citizenship must have a basic knowledge of the history and traditions of the world, their own country, and their unique heritage. They must also demonstrate familiarity with the basic concepts of history and the social sciences. Students must be able to use critical thinking skills in the application of that knowledge for decision-making and the analysis of controversial issues past, present, and future. They must also demonstrate a respect for different cultural traditions and their contributions to the nation's pluralistic society. They must demonstrate concern for the environment and awareness that the earth's resources are finite. Most importantly, they must realize that learning is a life-long process, and that active and informed civic participation is a duty. In addition to assignment-specific rubrics, the department uses two school-wide rubrics to evaluate student performance: Communicate Effectively and Access and Analyze Information.

<b>4060</b>	<b>WORLD HISTORY</b>	<b>9</b>	<b>1.0</b>
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<b>4060H</b>	<b>WORLD HISTORY HONORS</b>	<b>9</b>	<b>1.0</b>
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**Prerequisites:** Teacher Recommendation

This is a general survey course which covers world history from the Dawn of Western Civilization to modern times. In this course, students explore a variety of peoples, events, and movements in world history with a focus on inquiry-based learning to educate students about the world in which they live. Students will study topics such as the foundations of civilization, evolution of government, causes and effects of conflicts, political reforms and social justice, and causes and effects of cultural diffusion.

<b>4053</b>	<b>WORLD HISTORY 2: From Middle Ages</b>	<b>10</b>	<b>1.0</b>
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<b>4053H</b>	<b>WORLD HISTORY 2 HONORS: From Middle Ages</b>	<b>10</b>	<b>1.0</b>
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**Prerequisites:** Teacher Recommendation

This is a general survey course which covers world history from the late Middle Ages to the present. Students will study topics such as the Renaissance, Reformation, Age of Discovery, the rise of European nation states, the Enlightenment, transformations in India, China, and Japan, socio-political revolutions, growth of industrial economies, European imperialism, independence movements, and the World Wars.

<b>4101</b>	<b>US HISTORY AND CIVICS</b>	<b>10-12</b>	<b>1.0</b>
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<b>4101H</b>	<b>US HISTORY AND CIVICS HONORS</b>	<b>10-12</b>	<b>1.0</b>
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**Prerequisites:** Teacher Recommendation

Students will examine United States history from the colonial period to the present. Topics include: the Constitution, political parties and systems, reform movements and social change, immigration, foreign policy issues, rights and responsibilities of citizenship, and current issues that impact the nation, state, and local community.

**4101BL US HISTORY AND CIVICS – Blended Learning****11-12****1.0****Prerequisites:** Teacher Recommendation

Students have the option to take US/History/Civics as a Blended Learning course. The course content and student learning expectations are the same in all classes. However, in the Blended Learning classes, students will spend time outside of the classroom learning through in an online setting and through collaborative activities as well in the traditional classroom setting. Students considering this option should be able to work independently and have strong time-management skills.

**4104AP AP US HISTORY AND CIVICS****11-12****1.0****Prerequisites:** Teacher Recommendation

The class covers materials from the early peopling of the American continents through the beginning of the twenty-first century. Topics that are covered include historiographical debates, Constitutional issues, social justice, responsibilities of citizens, political parties and systems, foreign policy, and current issues that have an impact on the well-being of the nation. This course uses many outside materials and original sources in addition to a textbook. ***[Students must complete required reading and note-taking prior to the start of AP U.S. History.]***  
**Students must take the AP U.S. History Exam in the spring.**

**4165 CRIMINAL JUSTICE****Prerequisites:** None**11-12****0.5**

This is a challenging course in which students will engage in a study of the American criminal justice system. The course is designed to expose students to the wide variety of fields that exist in the criminal justice system. Topics to be covered include; evolution of law, types of crime, justice as a system, the police, the courts and prisons. Students will learn through text, class discussions, and student oral presentations.

**4258 INTRODUCTION TO SOCIOLOGY****Prerequisites:** None**11-12****0.5**

Sociology is the study of how human actions are influenced by the societies that they live in; it looks for general patterns in how people are shaped by their surroundings. This class will introduce students to current topics that are critical to understanding today's diverse world. Topics include but are not limited to: race, class, gender, deviance, population, urbanization, and sociological theories. The course will interactively challenge the idea that norms exist in society by engaging students in reading and note-taking, presentations, writing, class discussions, film analyses, and research-oriented projects.

**4254 PSYCHOLOGY****Prerequisites:** None**11-12****0.5**

Psychology is the scientific study of mental functions and behaviors. The course will address topics such as psychology's research methods, the development of the mind, personality, disorders, sleep and states of consciousness, and memory. Students will be challenged and engaged through reading and note-taking, presentations, writing, class discussions, film analyses, and research-oriented endeavors throughout the course.

**4256AP AP PSYCHOLOGY****11-12****1.0****Prerequisites:** Teacher Recommendation

Psychology is the scientific study of mental functions and behaviors. The course will explore five broad domains including methods/research, bio-psychological functioning, development, cognition, and individual/group dynamics and disorders. Students will be challenged and engaged through reading and note-taking, presentations, writing, class discussions, film analyses, and research-oriented endeavors throughout the course.

***[Students must complete required reading and assignments prior to the start of AP Psychology in the fall.]***

**Students must take the AP Psychology Exam in the spring.**

**4001 WORLD GEOGRAPHY****Prerequisites:** None**11-12****0.5**

World Geography provides students with an overview of human and physical geography. Topics typically include the physical environment, the political landscape, the relationship between people and the land, economic production and development, and the movement of people, goods, and ideas. The course is also designed to give students an opportunity to do in-depth studies of various parts of the world with particular emphasis on the geographic concepts of place (physical and human characteristics), interaction (humans and environment), and movement (human movement, movement of ideas, products and capital).

**4004AP AP HUMAN GEOGRAPHY****11-12****1.0****Prerequisites:** Teacher Recommendation

AP Human Geography introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. Students will also learn about the methods and tools geographers use in their science and practice. Students are expected to complete numerous readings from the text and other sources, as well as complete a substantial amount of writing.

***[Students must complete required reading and assignments prior to the start of AP Human Geography]***

**Students must take the AP Human Geography Exam in the spring.**

**4107 African American/Black and Puerto Rican/Latino Studies****Prerequisites:** US History**11-12****1.0**

The course is an opportunity for students to explore accomplishments, struggles, intersections, perspectives, and collaborations of African American/Black and Puerto Rican/Latino people in the U.S. Students will 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 will provide 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.

# MUSIC DEPARTMENT

## PHILOSOPHY

The Music Program encourages and challenges each student to develop his/her musical talent to its greatest potential. To that end, we provide a variety of musical opportunities which are directed at exploring various world cultures, understanding career development, and making full and creative use of leisure time. Each student should have the opportunity for personal and musical growth as well as developing a responsibility toward others in the context of group participation and public performance.

PATH OF IN-DEPTH STUDY IN MUSIC			
Grade Level	Vocal	Instrumental	Musical Studies
9	Concert Choir	Concert Band	Piano or Guitar Class
10	Concert Choir H or Swing 14 H	Concert Band or Jazz Band	Piano or Guitar Class
11	Swing 14 H & Piano Class	Concert Band H or Jazz Band/Music Technology	
12	Swing 14 H & AP Music Theory	Concert Band H or Jazz Band/AP Music Theory	AP Music Theory

### 5110 CONCERT CHOIR

9-12 1.0

### 5110H CONCERT CHOIR HONORS

9-12 1.0

**Prerequisites:** Teacher Recommendation for Honors

The Haddam Killingworth High School Concert Choir is our largest mixed voice performing ensemble open to all students grades 9-12. This ensemble is designed to offer singers an opportunity to perform, analyze, and explore a variety of repertoire, develop the skills for healthy singing, and enhance their understanding and appreciation of the art of choral music. Students in this ensemble will have the opportunity to perform and study a wide variety of choral music from all time periods and genres. Concert performances and rehearsals are an integral part of the grading process. Participation in concerts, rehearsals and special events are an important extension of the classroom learning and an essential requirement of the course. The Concert Choir may perform at various community functions. Some rehearsals and performances may be held outside of the school day: attendance at these activities is required. The HKHS Music Department travels to competitions and events and seeks to strive for excellence in all that it does. *Following consultation with and approval of teacher, students may elect to take this course at the Honors level. Honors level students will be required to audition for the Southern Region Music Festival.*

### 5111H SELECT CHOIR HONORS: SWING 14

10-12 1.0

**Prerequisites:** One Year Concert Choir and Audition

Swing 14 is Haddam Killingworth High School's mixed voice, *a cappella* choir. Decca is Haddam Killingworth High School's select women's choir. These advanced performing ensembles are made up of students who must show progressing aptitude in their music reading skills, choral blending and other aspects of vocal production. Additionally, all students must demonstrate leadership and appropriate etiquette during all rehearsals. Students chosen for this ensemble will have the opportunity to perform and study a wide variety of choral repertoire chosen to highlight and challenge the years' unique blend of students. In addition to their music, select choir students will learn and perform concert choir repertoire for performances. Participation in concerts, rehearsals

and special events are an important extension of classroom learning and an essential requirement of the course. These choral groups will perform at various community functions. Some rehearsals and performances may be held outside of the school day; attendance at these activities is required. The H-K HS Music Department travels to competitions and events and seeks to strive for excellence in all that it does. *Honors Level students will be required to audition for the Southern Region Music Festival.*

### **5113 MUSIC THEORY**

**10-12**

**0.5**

**Prerequisites:** None

Learn the foundations of music theory to become a literate reader and writer of music. Units of study include note names, rhythms, signs and symbols, key signatures, intervals, chords, cadences, sight reading, and melodic dictation. This course is recommended study for anyone who wants to become a more skilled musician and is strongly recommended as a prerequisite for AP Music Theory which is offered on alternate years.

***This course will be offered in alternate years. It will be offered 2022-2023.***

### **5119 MUSIC TECHNOLOGY AND PRODUCTION**

**10-12**

**0.5**

**Prerequisites:** None

Take your musicianship to the next level with this class designed to help you realize your creativity through music and technology. This computer-based course is designed to give students the background theory and practical knowledge to set up, record, edit, and mix a variety of audio projects. In addition to the programs like audacity students will have access to a subscription with Soundtrap to build an online portfolio of work.

***This course will not be offered 2022-2023.***

### **5114AP AP MUSIC THEORY**

**11-12**

**1.0**

**Prerequisites:** Teacher Recommendation

This Advanced Placement course seeks to instill mastery of rudiments and terminology of music, including hearing and notating pitches, intervals, scales and key, chords, meter, and rhythm. Building on this foundation, the course progresses to include more sophisticated and creative tasks, such as melodic and harmonic dictation and composition. ***[Students will complete a summer packet prior to the start of AP Music Theory in the fall.]***

**All students must take the AP Music Theory Exam in the spring.**

### **5102 CONCERT BAND**

**9-12**

**1.0**

### **5102H CONCERT BAND HONORS**

**9-12**

**1.0**

**Prerequisites:** Teacher Recommendation for Honors

The Haddam Killingworth High School Band is a large performing ensemble for 9-12 grade woodwind, percussion and brass instrumentalists. Concert Band students will focus on expanding ensemble skills, technical skills, and musical concepts. The director will choose appropriate music for students to rehearse, perform, and experience high school level literature for Band. Students must bring instruments, music, and equipment to every rehearsal and performance. The concert band may perform at various community functions. Some rehearsals and performances may be held outside of the school day; attendance at these activities is required. The HKHS Music Department travels to competitions and events and seeks to strive for excellence in all that it does. *Following consultation with and approval of the teacher, students may elect to take this course at the Honors Level. Honors Level students will be required to audition for the Southern Region Music Festival. Students must reserve lunch period the first Monday of each month for combined rehearsals with jazz band.*

<b>5105 JAZZ BAND</b>	<b>10-12</b>	<b>1.0</b>
<b>5105H JAZZ BAND HONORS</b>	<b>10-12</b>	<b>1.0</b>

**Prerequisites:** One year of concert band and teacher recommendation

The Haddam Killingworth High School Jazz Band is our schools' select band ensemble for students who want to apply their musicianship to the genre of jazz, Latin, blues, swing, jazz rock, jazz funk, big band and more. This ensemble will challenge students to solo, improvise, and work together as a group. Advanced Music Theory knowledge and skills are a core component of the curriculum and will be woven into class time learning and assignments. In addition to their charts, Jazz Band students will learn and perform concert band repertoire for performances. The HKHS Music Department travels to competitions and events and seeks to strive for excellence in all that it does. *Honors level students will be required to audition for the Southern Region Music Festival. Students must reserve lunch period the first Monday of each month for combined rehearsals with jazz band.*

<b>5108 INTRODUCTION TO GUITAR</b>	<b>9-12</b>	<b>0.5</b>
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**Prerequisites:** None

Designed for students who are interested in learning to play the guitar. Students will be introduced to various guitar styles and techniques. Students will also learn to read music and guitar tablature. The teacher will set up curriculum according to the individual's level of proficiency. Students will be expected to practice assigned lessons in class and at home. Students will be evaluated on both an individual and group performance basis.

<b>5107 PIANO AND KEYBOARD</b>	<b>9-12</b>	<b>0.5</b>
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**Prerequisites:** None

Whether you have never touched a piano before or you have taken lessons for years, all levels of pianists are welcome. Teacher will provide a personalized cycle of repertoire and skills to study for each student. Students can choose to work in the keyboard lab or utilize our practice rooms with full-sized upright pianos. Repertoire is enhanced with an in-depth study of the history of composers, time periods, and performance practices. Basic theory and music reading are also offered for beginners. Students with a serious interest may continue for a second semester.

**Note:** *Students wishing to take Concert Choir Honors and Concert Band Honors may elect to enroll in both with permission from both teachers. Students will receive a half credit for each course and will divide their time equally between both courses in the same class period. Use the following course numbers when enrolling in both: Concert Band Honors: 51025H & Concert Choir Honors 51105H.*

# ART DEPARTMENT

## PHILOSOPHY

Students who enroll in a visual arts class acquire a greater understanding of past and present artists. All art classes use and emphasize the elements of art and the principles of design while stressing the importance of originality, craftsmanship, and aesthetics. We offer the opportunity for the exploration of ideas and the cultivation of art skills. Researchers and educators have documented the importance of art education for young people. Not only does it help young people discover their own identity and culture, but it also teaches them about other people and cultures. It provides training in problem solving, communication, and self-discipline. The future of our society requires the participation of people who can stimulate, create, motivate, and communicate. Art education is essential for this development.

### **5154 INTRODUCTION TO STUDIO ART**

**9-12**

**0.5**

**Prerequisites:** None

This course provides students with the knowledge and opportunity to survey a variety of art media to best prepare for future art course choices. There is a strong emphasis on design techniques and the elements and principles of design. Areas of exploration may include drawing, painting, ceramics, sculpture, and crafts. Students will be encouraged to develop their own personal style, along with recognizing the styles and techniques of today's contemporary artists.

### **51561 DRAWING STUDIO 1**

**9-12**

**0.5**

**Prerequisites:** None

This course provides students with the knowledge and opportunity to explore drawing and to create individual works of art. The course covers the language, materials, and processes of drawing and the design elements and principles supporting a work of art. This course provides an understanding of drawing techniques required to be successful in Painting Studio 1. A variety of media such as pencil, charcoal, pastel, pen and ink, and mixed media will be used to complete works in still life, portraits, figure, and perspective.

### **51562 DRAWING STUDIO 2**

**9-12**

**0.5**

**Prerequisites:** Drawing Studio 1

This course provides students with the knowledge and opportunity to expand their drawing skills and to create individual works of art. The course covers the language, materials, and processes of drawing and the design elements and principles supporting a work of art. This course provides increased challenge to students who completed Drawing 1, exploring issues of line quality, light and shade, rendering of form, mark-making, composition, illusion of depth, and surface manipulation. A variety of media such as pencil, charcoal, pastel, pen and ink, and mixed media will be used to complete works in still life, portraits, figure, and perspective.

### **51571 PAINTING STUDIO**

**9-12**

**1.0**

**Prerequisites:** None; Drawing experience preferred

This course provides students with the knowledge and opportunity to explore painting and to create individual works of art. The course involves painting techniques and creative aspects of composition, design, and color. Exploration of acrylic, watercolor, and multimedia will be used to create works in a variety of subject matter. Students will draw content from different styles of art for their painting, while developing and conveying a personal statement.



<b>5159 CERAMICS STUDIO</b>	<b>9-12</b>	<b>1.0</b>
<b>Prerequisites:</b> None; Art and Design strongly recommended		
This course provides students with the knowledge and opportunity to explore ceramics and to create individual works of art. Particular attention is paid to the fundamental clay forming techniques of pinch, coil, slab and wheel, the characteristics of the raw materials, their transformation under heat, and the various methods used to create and finish ceramic objects.		
<b>5199 ADVANCED CERAMIC STUDIO</b>	<b>10-12</b>	<b>1.0</b>
<b>Prerequisites:</b> Introduction to Ceramics and teacher recommendation		
This course enables students to expand their knowledge and expertise in ceramics to create more unique and individual works of art. Particular attention will be paid to having students develop their own artist voice using the ceramic medium. Advanced firing, glazing and clay techniques will be explored.		
<b>5165 CRAFTS STUDIO</b>	<b>9-12</b>	<b>1.0</b>
<b>Prerequisites:</b> None		
This course provides students with the knowledge and opportunity to survey a wide range of contemporary crafts, with an emphasis on design techniques. Areas we will explore include basketry, fiber, glass, paper and jewelry. Students will be encouraged to develop and convey their own personal style, along with understanding the styles and techniques of today's contemporary craftspeople.		
<b>5158 SCULPTURE STUDIO</b>	<b>9-12</b>	<b>0.5</b>
<b>Prerequisites:</b> None		
Students will create sculptures, which reflect their own personal style and original ideas. This studio course will provide exploration in a variety of sculptural media including relief, statuary, soft-sculpture, casting, construction, additive and subtractive sculpture. Media will include clay, plaster, fabric, wood, wire, natural materials, and found objects. Combination of media will be stressed and encouraged.		
<b>5163 INTRODUCTION TO PHOTOGRAPHY</b>	<b>9-12</b>	<b>0.5</b>
<b>Prerequisites:</b> None		
This course will explore applications of <b>black and white photography</b> and <b>digital photography</b> . Students will be exposed to the materials and processes of fine arts. Students learn about the operation of a camera, composition, depth of field, film development, and digital technology. It is <u><i>strongly</i></u> recommended that students have their own 35mm film and/or digital camera for this course.		
<b>5169 DIGITAL PHOTOGRAPHY</b>	<b>10-12</b>	<b>0.5</b>
<b>Prerequisites:</b> Introduction to Photography		
<i>*Strongly recommended that students provide their own digital camera</i>		
This course offers students an opportunity to explore photography using digital cameras and photo editing software. Students are introduced to technical aspects of digital cameras using the media as a means for self-expression as a fine art form.		

**5167 DARKROOM PHOTOGRAPHY****10-12****0.5****Prerequisites:** Introduction to Photography***\*Strongly recommended that students provide their own 35mm film camera***

This course expands on students' knowledge of 35mm black and white photography. Students will learn composition, lighting techniques, filters, camera angles, and an introduction into alternative photographic processes. The course concentrates on the use of photography as a fine art medium. Aimed at encouraging creativity, emphasis is given to developing a critical sense of the visual language that modern photography uses so expressively. An understanding of technical and critical skills in photography enables students to translate their ideas from other areas of art into the medium of photography. Students will learn darkroom procedures and apply them to photographic assignments.

**5197H ADVANCED ART PROJECTS HONORS****10-12****1.0****Prerequisites:** Teacher Recommendation

Advanced Art Projects course enables students to explore a particular art form or topic. This course may serve as an opportunity for students to expand their expertise in a particular form or style, to explore a topic in great detail, or to develop more advanced skills. Teacher and student work together to develop a unique concentration or advanced level course work based on previous art courses taken.

**5170H ART PORTFOLIO HONORS****11-12****1.0****Prerequisites:** Teacher Recommendation

The Art Portfolio course offers students the opportunity to create a professional body of work that reflects their personal style and talent. The course will prepare and equip the serious art student with a body of artwork exemplifying talent in drawing, painting, photography, and/or three-dimensional ceramics or sculpture. Significant time will be spent exploring art schools, career and artist research, observational sketching, and final exhibition of quality artwork.

**5171AP AP STUDIO ART – DRAWING, 2-D DESIGN, OR 3-D DESIGN****11-12****1.0****Prerequisites:** Teacher Recommendation

Designed for students with a serious interest in art, AP Studio Art courses enables students to refine their skill and create artistic works to be submitted to the College Board for evaluation. This is a portfolio assignment emphasizing quality of work, attention to and exploration of a particular visual interest or problem, and breadth of experience in the formal, technical, and expressive aspects of art. ***[Students will complete a summer artwork packet prior to the start of AP Studio Art in the fall.]***

**Students must complete and submit the required AP Studio Art Exam Portfolio in the spring.**

# WORLD LANGUAGES

## PHILOSOPHY

The mission of the World Languages Department is to engage students in other cultures, ancient or modern, through the careful study of languages so that students will communicate effectively in and contribute to a global society.

The Department's philosophy is based on state and national standards. We strive to teach students to communicate with each other and to a wider audience through spoken and written communication. The study of world languages provides an opportunity for connections and comparisons between cultures and the languages themselves. Students are engaged in learning language and culture with the help of authentic materials and interdisciplinary studies. By integrating media and technology, lifelong learning, and career skills with global awareness, we apply 21<sup>st</sup> Century Skills to student learning.

We encourage students to study to the highest level of the language, and we remind students that they may study more than one language during their high school career.

### **66100 BEGINNING SPANISH CONVERSATION**

**9-12**

**1.0**

**Prerequisites:** By recommendation

This course is designed to introduce students to the study of the Spanish language and culture. The course will emphasize basic spoken and written patterns and vocabulary. Students will learn customary courtesies and conventions. The theme is practical application of Spanish in careers. Students will explore a number of Spanish speaking countries and a variety of careers. This course fulfills the requirement for one credit of language study. A student who chooses to continue to study Spanish would take Spanish 1 next.

### **66101 SPANISH 1**

**9-12**

**1.0**

**Prerequisites:** None

Designed to introduce students to Spanish culture and language, Spanish 1 emphasizes culture through authentic and adapted sources of art, music, media, customs, history and geography of Spanish-speaking people. Basic grammar and syntax, simple vocabulary, and the spoken accent are introduced so that students can read, write, speak, and understand the language at a basic level, using customary courtesies and conventions.

### **66102 SPANISH 2**

**9-12**

**1.0**

**Prerequisites:** Middle School Spanish **AND** Teacher Recommendation **OR** High School Spanish 1 **AND** Teacher Recommendation

Spanish 2 builds upon knowledge and skills developed in Spanish 1, extending students' understanding of culture through authentic and adapted sources of art, music, media, customs, history and geography of the Spanish speaking people. Students learn to engage in discourse for presentational and interpersonal purposes through written and spoken expressions that show an understanding of sentence structure and the rules of grammar, while expanding the use of vocabulary in context.

<b>6103 SPANISH 3</b>	<b>9-12</b>	<b>1.0</b>
<b>6103H SPANISH 3 HONORS</b>	<b>9-12</b>	<b>1.0</b>
<b>Prerequisites:</b> Middle School Spanish 2 <b>AND</b> Teacher Recommendation <b>OR</b> High School Spanish 2 <b>AND</b> Teacher Recommendation		
Spanish 3 focuses on expression of increasingly complex concepts related to the cultures of the Hispanic Caribbean both verbally and in writing while showing some spontaneity. Comprehension goals for students include attaining greater facility and ease in understanding when listening to the language, being able to paraphrase or summarize written passages, and conversing easily within limited situations.		
<b>6104 SPANISH 4</b>	<b>10-12</b>	<b>1.0</b>
<b>6104H SPANISH 4 HONORS</b>	<b>10-12</b>	<b>1.0</b>
<b>Prerequisites:</b> Spanish 3 <b>AND</b> Teacher Recommendation		
Spanish 4 focuses on expression of increasingly complex concepts related to the cultures of the Hispanic world both verbally and in writing while showing more spontaneity. Comprehension goals for students include attaining more facility and ease in understanding when listening to the language, being able to paraphrase or summarize written passages and verbal passages, and conversing easily with more varied situations.		
<b>6108UC UCONN SPANISH: SPANISH CONVERSATION: CULTURAL TOPICS (SPAN 3179)</b>	<b>11-12</b>	<b>1.0</b>
<b>Prerequisites:</b> Spanish 4 <b>OR</b> Spanish 4 Honors <b>AND</b> Teacher Recommendation		
This course focuses on <b>Business</b> and the <b>Environment</b> while advancing students' skills and abilities to understand and speak so they can maintain simple conversations with sufficient vocabulary and an acceptable accent for school and interpersonal and presentational experiences. The readings are uncomplicated but authentic. They have environmental and business contexts and reflect various Spanish-speaking countries. The writings are short and contain specific vocabulary and embedded grammar for real world tasks.		
<b>6109UC UCONN SPANISH: INTERMEDIATE SPANISH COMPOSITION (SPAN 3178)</b>	<b>11-12</b>	<b>1.0</b>
<b>Prerequisites:</b> Spanish 4 Honors <b>AND</b> Teacher Recommendation		
This Spanish Literature course places an emphasis on reading, understanding, and reacting in writing to literature written in Spanish. Vocabulary development is a focus. This course extends students' facility with the language so that they are able to understand, initiate, and sustain general conversations on topics beyond basic survival needs. Grammar extends knowledge of present, past, future tenses and includes present subjunctive mood.		
<b>6112AP AP SPANISH: LANGUAGE AND CULTURE</b>	<b>12</b>	<b>1.0</b>
<b>Prerequisites:</b> UConn Intermediate Spanish Composition <b>AND</b> Teacher Recommendation		
Designed to parallel third-year college-level courses in Spanish Language and Culture, the AP Spanish Language and Culture course builds upon prior skills and knowledge of concepts, culture and language and develops students' ability to understand others and express themselves in Spanish more accurately, coherently, and fluently. Students will develop sufficient vocabulary to interpret varied authentic sources from the Hispanic/Latino speaking world. <b><i>[Students must complete a summer review packet prior to taking AP Spanish.]</i></b> <b><u>Students must take the AP Spanish Language and Culture Exam in the spring.</u></b>		

<b>6123 FRENCH 3</b>	<b>9-12</b>	<b>1.0</b>
<b>6123H FRENCH 3 HONORS</b>	<b>9-12</b>	<b>1.0</b>

**Prerequisites:** Middle School French **AND** Teacher Recommendation

French 3 focuses on expression of increasingly complex concepts related to the cultures of the French-speaking world verbally and in writing while showing some spontaneity. Comprehension goals for students include attaining more facility and better understanding when listening to the language, being able to paraphrase or summarize written passages, and conversing easily within limited situations.

<b>6123 FRENCH 4</b>	<b>10-12</b>	<b>1.0</b>
<b>6123H FRENCH 4 HONORS</b>	<b>10-12</b>	<b>1.0</b>

**Prerequisites:** French 3 **AND** Teacher Recommendation

French 4 focuses on expression of increasingly complex concepts related to the cultures of the French-speaking world verbally and in writing while showing more spontaneity. Comprehension goals for the students include attaining more facility and ease in understanding when listening to the language, being able to paraphrase or summarize written passages and verbal passages, and conversing easily within more varied situations.

<b>6128UC UCONN FRENCH: GLOBAL CULTURE IN FRENCH I (FREN 3250)</b>	<b>11-12</b>	<b>1.0</b>
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**Prerequisites:** French 4 Honors **AND** Teacher Recommendation

This course advances student focus toward the understanding of increasingly abstract concepts through the study of French-speaking cultural phenomena. Student work also emphasizes advancing their skills and abilities to read, write, speak, and understand the French language through extended interpersonal and presentational expression with a strong focus on spoken French. Complex grammatical structures and diverse vocabulary are introduced through mostly authentic sources.

<b>6132AP AP FRENCH: LANGUAGE AND CULTURE</b>	<b>12</b>	<b>1.0</b>
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**Prerequisites:** UCONN French: Global Culture in French (FREN 3250) **AND** Teacher Recommendation

Designed to parallel third-year college-level courses in French Language and Culture, the AP French Language and Culture course builds upon prior skills and knowledge of concepts, culture and language and develops students' ability to understand others and express themselves in French more accurately, coherently, and fluently. Students will develop sufficient vocabulary to interpret varied authentic sources from the French-speaking world. *[Students must complete a summer review packet prior to taking AP French.]*

**Students must take the AP French Language and Culture Exam in the spring.**

## **OPPORTUNITY TO EARN THE SEAL OF BILITERACY**

The State of Connecticut has authorized high schools to offer the opportunity for students to earn the Seal of Biliteracy which, when earned, will be placed on a student's diploma and noted on the high school transcript. The Seal of Biliteracy is an award given to recognize a student who has attained proficiency in two or more languages (including English). This award shows that a student has not only studied languages, but has succeeded in communicating in culturally appropriate ways.

A student who meets the high school English requirements for graduation demonstrates proficiency in English. For French and Spanish students, the ACTFL Assessment of Performance toward Proficiency in Languages (AAPPL) exam will allow them to demonstrate proficiency in a second language. This exam will be offered each year to qualified students who apply for and pay for it. Multilingual students may apply to take an exam for their home language(s). The Seal of Biliteracy is awarded to a student who meets the English requirements and earns I-3 or higher (Intermediate Mid) on all four sections of the AAPPL or equivalent exam.

# WELLNESS

The Class of 2023 and all classes thereafter are required to complete 1.0 credits in Health and 1.0 credits in Physical Education.

## PHILOSOPHY

We believe the Haddam-Killingworth High School Wellness Department has the responsibility to provide each student the opportunity to learn how to live a healthier lifestyle. We offer courses that allow students to grow physically, mentally, socially, and emotionally. This program is designed to encourage students to choose wellness as a lifelong goal. The key to achieving this goal is the development of individual decision-making skills that involve real issues facing students and the community. We promote sportsmanship, cooperation, and respect for self and others while challenging students to be actively engaged.

## CORE PHYSICAL EDUCATION AND HEALTH COURSES

### **8001A PHYSICAL EDUCATION 1**

**9**

**0.5**

**Prerequisites:** None

Physical Education courses provide students with knowledge, experience, and an opportunity to develop skills in more than one of the following sports or activities: team sports, individual/dual sports, recreational sports, and fitness/conditioning activities. Students are expected to gain knowledge of the rules, etiquette, and strategies of each sport. Physical fitness testing and swimming are required units in the Physical Education 1 course. A final exam will be given. **This course is a graduation requirement.**

### **08057 HEALTH 1**

**9**

**0.5**

**Prerequisites:** None

Health provides students with the knowledge and skills to achieve overall wellness in life. Students examine how decision making and risky behaviors influence physical, mental/emotional, and social health. Students practice and develop lifelong skills including executive functioning, communicating effectively, stress management, and goal setting. Health 1 curriculum topics include mental health, alcohol, tobacco, vaping, human growth and development, nutrition, and fitness. Students' awareness will be increased about self-concept and body image and they will explore and evaluate ways to maintain personal health and safety. **This course is a graduation requirement.**

### **8051 HEALTH 2**

**11**

**0.5**

**Prerequisites:** Health 1

Health Education 2 provides students with additional knowledge and skills to enhance overall wellness throughout their lives. Students will continue to examine how decision making and risky behaviors influence physical, mental/emotional, and social health. Health Education 2 curriculum topics include healthy relationships, principles of safety, CPR and First Aid, stress management, mental health, substance abuse and prevention, human sexuality, nutrition, and fitness. Students will identify how an unhealthy decision could possibly lead to life changing consequences that affect one's health and well-being. Students will build upon and refine skills learned in Health 1. **This course is a graduation requirement.**

## **PHYSICAL EDUCATION ELECTIVES**

### **8002 TEAM GAMES**

**10-12**

**0.5**

**Prerequisites:** Physical Education 1

This course provides students with knowledge, experience, and an opportunity to develop skills in more than one team sport (such as volleyball, flag football, and floor hockey). Emphasis will be placed on advanced positional skills and team strategies for both offense and defense. Students are expected to gain knowledge of the rules, etiquette, and strategies of each sport. A final exam will be given.

### **8009 STRENGTH AND CONDITIONING**

**10-12**

**0.5**

**Prerequisites:** Physical Education 1

This course provides opportunities for individualized workouts. This course helps students develop knowledge and skills to be able to create and follow personalized fitness plans. Students will utilize free weights, a variety of training equipment, and cable machines to improve their flexibility, muscular strength, muscular endurance, cardiovascular endurance, and/or body composition. Emphasis will be on safety, proper technique, and injury prevention. Students will be exposed to a variety of training methods. A final exam will be given.

### **8016 LIFETIME FITNESS**

**10-12**

**0.5**

**Prerequisites:** Physical Education 1

This course provides opportunities for both individual group and exercise. Students will be introduced to the current fitness trends and various training techniques including aerobic activity and group fitness programs. Students will develop and implement group fitness routines. This course emphasizes acquiring knowledge and skills regarding lifetime activities. A final exam will be given.

### **8007 UNIFIED PHYSICAL EDUCATION**

**9-12**

**0.5**

**Prerequisites:** None

This course provides the opportunity for students with and without special needs to participate together in physical education. Activities such as team sports, individual/dual sports, recreational sports, and fitness/conditioning activities are adapted to meet the needs of all students.

# FAMILY AND CONSUMER SCIENCE

## PHILOSOPHY

We believe that Haddam-Killingworth Family and Consumer Science students should be given the opportunity to develop skills and attributes which will help them become responsible, functioning members of society. In a variety of settings, we strive to develop intellectual curiosity and specialized knowledge that will prepare students for roles as parents, workers, and caring citizens. We also believe that Family and Consumer Science courses encourage the development of interpersonal and employment skills necessary for success in the workplace. Students learn to make critical judgments, construct and implement ideas, and apply knowledge gained in other disciplines. **The Family and Consumer Science Department** is made up of two programs: **Culinary Arts** and **Child Development**.

## CULINARY ARTS COURSES

Students interested in exploring the food service industries are encouraged to enroll in the **Culinary Arts** program. Here they will learn about restaurant operations, food purchasing, and preparing meals in quantity. In addition, students will explore food's role in society, how to plan and prepare meals, and the use of different food service equipment.

### **16053 FOOD SERVICE 1- INTRODUCTION**

**10-12**

**0.5**

**Prerequisites:** None

This course provides students with an understanding of food's role in society, instruction on how to plan and prepare meals, experience in the proper use of equipment and utensils, and a background on nutritional needs and requirements for healthy living. The class will focus on different types of food preparation, presentations, and catering events. Although this course may present career opportunities in the food service industry, the emphasis is not career related.

### **16056 FOOD SERVICE 2- INTERNATIONAL CUISINE**

**11-12**

**0.5**

**Prerequisites:** Food Service 1 - Introduction

The emphasis will be placed on researching, planning, and preparing menus of different international cuisines. The menus will include all facets of a meal, including appetizers, entrées, vegetables, starches, soups, and desserts. Students will build upon and refine skills learned in the Food Service 1 course.



## **CHILD DEVELOPMENT COURSES**

Students interested in careers working with children, in education, health care, or social work are encouraged to take classes in the **Child Development** program. In the core classes, Infant and Toddler Growth and Development and Introduction to Child Development, the different stages of early childhood are addressed, and students observe and interpret the behavior of young children. In Laboratory Experience and Early Childhood Internship classes, students have the opportunity to interact and observe children in the district-run day care facility.

### **19052 INTRODUCTION TO CHILD DEVELOPMENT**

**9-12**

**0.5**

**Prerequisites:** None

Students will explore the development of children through various stages. Units will cover the physical, emotional, social, and intellectual domains of development. In addition, students will research and present information on child development theories and quality early childhood programs. Students will observe children in the district day care center.

### **22204 INFANT AND TODDLER GROWTH AND DEVELOPMENT**

**9-12**

**0.5**

**Prerequisites:** None

Students will explore growth and development from conception through toddlerhood. Topics include knowledge about the physical, cognitive, emotional, and social development of infants and toddlers as well as their care. Students will observe infants and toddlers in the district day care center. The topics of puberty and reproduction will be covered in prenatal development. An infant simulation project will demonstrate the care required of a newborn.

### **19051 EARLY CHILDHOOD LABORATORY EXPERIENCE**

**10-12**

**1.0**

**Prerequisites:** Infant and Toddler Growth and Development **OR** Introduction to Child Development, **and** Teacher Recommendation

Students will learn about the care and teaching of infants, toddlers, and preschoolers in the childcare setting. Students will work under the supervision of the caregivers and teachers in the HK Cubs Childcare Center throughout the year. Students will learn how to maintain a safe, healthy learning environment as well as plan and deliver developmentally appropriate activities to advance physical, intellectual, social, and emotional development. The management of child care programs will also be explored.

### **19098 EARLY CHILDHOOD EDUCATION INTERNSHIP**

**11-12**

**1.0**

**Prerequisites:** Early Childhood Laboratory Experience **and** Teacher Recommendation

Students will intern in a day care center or pre-school facility to gain work experience in the fields of child care or early childhood education. Time will be spent in the classroom exploring careers working with young children, developing a resume and early childhood portfolio, as well as discussing work experiences.

# MEDIA AND COMMUNICATION

## PHILOSOPHY

The Media and Communication program prepares students for careers in broadcasting, film, and emerging media industries. Students will learn the production techniques necessary to succeed in media production while applying innovative approaches to content creation and visual aesthetics. The program provides a balance between visual narrative storytelling and hands-on digital media technology. In the semester introductory course, students learn the foundations of studio and location production through experiences in writing, media trends, aesthetics, and production. The Honors advanced course is devoted to a class in preparation and production of a short film and documentary project.

### **11105 JOURNALISM AND BROADCASTING**

**9-12**

**1.0**

**Prerequisites:** 10-12 none; **Incoming 9<sup>th</sup> grade needs 8<sup>th</sup> Grade Language Arts Teacher Recommendation**

**Course Description:** This course is designed to provide a comprehensive journalistic experience by integrating print journalism, broadcast journalism, and video production. This course will be team taught. Students will produce an issue of the school newspaper, The Cougar Chronicle, every 4-5 weeks. They will participate in all phases of newspaper production including writing, editing, computer design, photography, artwork, printing, and finishing. After producing an issue of the paper, students will swap instructors to produce a TV news story for the H-KTV news. Guest speakers and field trips will be a regular feature of this course.

### **11055 INTRO TO DIGITAL AND MEDIA COMMUNICATION**

**9-12**

**0.5**

**Prerequisites:** None

This entry-level course gives students a thorough grounding in the basic techniques of audio and video storytelling. Students learn basic video and audio production, visual composition, studio production, field camera practice, and digital video editing. This is a hands-on course that requires students to produce a variety of media projects throughout the semester. This course is designed as a real world experience; however, being an on-camera talent is not a course requirement.

### **11997 EVENT BROADCAST PRODUCTION –INDEPENDENT STUDY**

**10-12**

**0.5**

**Prerequisites:** 11055 Intro & Teacher Recommendation

This course will enable students to explore topics of interest related to digital media communications and its technologies. The course will develop students' abilities in the aesthetic, practical, and interpersonal aspects of creating effective **field production** and other forms of live event productions. This independent study will give students the opportunity to expand their expertise in video production and develop more advanced skills. **Must be available to videotape some high school and community events.**

**Prerequisites:** Intro to Digital & Media Communication **OR** Broadcast Journalism **AND** Teacher Recommendation

This advanced course provides the opportunity for students to produce more challenging video projects such as a turn-key short film for the H-KTV film festival. Students will also produce a short documentary. Students learn advanced non-linear digital editing skills. Students become more involved in advanced videography, sound, and lighting techniques. Students are also responsible for producing independent projects for broadcast on Comcast Channel 18.

**Eligible for College Career Pathways Credit from Middlesex Community College.**

# **TECHNOLOGY, ENGINEERING, AND MANUFACTURING DEPARTMENT**

## **P H I L O S O P H Y**

Due to the rapid rate of change in our technological society, Technology Education prepares students to be technologically aware, literate, sensitive, capable, and competent. All students should actively participate in broad experiences in communications, transportation, and manufacturing/production with some pre-vocational elements for specific populations. Students will understand technological innovation, the impacts of the products and processes of technology on the quality of life, and the need for critical evaluation of the societal matters involving the consequences of technology. Students must learn how to carry out the application of scientific, mathematical, and technological experientially-based problem solving.

### **Technology Education Department**

**Technology Education** prepares students to be technologically aware, literate, sensitive, capable, and competent in a rapidly changing technological society. All students should actively participate in broad experiences in communications, transportation, manufacturing/production, and engineering. Students must understand technological innovation, the impacts of the products and processes of technology on the quality of life, and the need for critical evaluation and societal matters involving consequences of technology. Students must learn how to carry out the application of scientific, mathematical, technological, and experientially-based problem solving.

### **CAREER AND VOCATIONAL PROGRAMS**

Haddam-Killingworth High School offers a wide variety of career, vocational, and technical courses and services. Students are encouraged to explore a number of these areas. Many departments offer programs which will help students gain skills needed for employment.

## **GRAPHICS COURSES**

### **11154 GRAPHIC COMMUNICATION 1**

**9-12**

**0.5**

**Prerequisites:** None

This course is designed to introduce students to the methods behind visual communication techniques. Topics include graphic design, communication systems, electronic prepress, page layout, advertisements, informative pamphlets, business cards, t-shirts, posters, decals, and other printed materials. At the conclusion of this course, students will be able to appropriately manage and use computer design software, solve real-world design and communication problems, as well as price and produce printed products.

### **11155 GRAPHIC COMMUNICATION 2**

**9-12**

**0.5**

**Prerequisites:** Graphic Communications 1

Students will further their experience with Adobe Photoshop, Flash, and Illustrator. Students will create websites, animations, t-shirts, and photo montages. Students will participate in advanced production projects that include community-based print/design projects as well as intermediate techniques in print-making and screen printing. Students will apply artistic and computer techniques to the interpretation of technical and commercial concepts.

## **PROJECT LEAD THE WAY (PLTW) COURSES**

**Project Lead The Way** is an innovative, pre-engineering, and technology education program specially developed for secondary schools. It is a national program that seeks to create dynamic partnerships with our nation's schools to prepare an increasingly diverse group of students to be successful in engineering and engineering technology programs. **\*Courses are eligible for college credit in all PLTW. To receive college credit, students must earn an 85% or better in the class, and a 6 or higher (1-9 scale) on the final exam. \*Exception: Computer Science Principles, students must take the AP Computer Science Principles exam to be eligible to earn college credit.**

### **21006PL INTRODUCTION TO ENGINEERING DESIGN (IED)**

**9-12**

**1.0**

**Prerequisites:** Algebra 1

IED provides students with experiences in solving problems by applying a design development process. Students use powerful computer hardware and software (Inventor) to develop 3-D models or solid renderings of objects. Using a Computer Aided Design system, students learn the product design process through creating, analyzing, rendering, and producing a model. Students will learn to apply math to engineering concepts.

### **21004PL PRINCIPLES OF ENGINEERING (POE)**

**11-12**

**1.0**

**Prerequisites:** Geometry

This course helps students understand the field of engineering/engineering technology. Students will construct and test various technology systems and manufacturing processes in order to learn how engineers and technicians use math, science, and technology in an engineering problem-solving process to benefit people. They may also gain an appreciation of the social and political consequences of technological change.

**21012PL CIVIL ENGINEERING/ARCHITECTURE****9-12****1.0****Prerequisites:** IED or Teacher Recommendation

This course provides an overview of the fields of civil engineering and architecture, while emphasizing the interrelationship and dependence of both fields on each other. Students use state-of-the-art software to solve real world problems and communicate solutions to hands-on projects and activities. This course covers such topics as the roles of civil engineers and architects, project planning, site planning, building design, and project documentation and presentation.

**21008PL DIGITAL ELECTRONICS****10-12****1.0****Prerequisites:** Algebra 1 or higher

This course is designed to introduce students to the field of electrical engineering. In this course, students design and build digital circuits using computer simulation software and real components to design electronic machinery and Robotics. This course is highly recommended for students interested in any field involving electronic hardware, programming, computer design, and/or Robotics. Students will learn how to use applied logic and binary data in the development of electronic circuits and devices. Students will use simulation software to design and test digital circuitry and construct actual circuits and devices.

***This course will be offered alternate years. Will be offered in 2020-2021.***

**21010PL COMPUTER SCIENCE PRINCIPLES (CSP)****10-12****1.0****Prerequisites:** None

Students will learn beginning computer programming skills and apply them to projects and problems that include app development, visualization of data, cybersecurity, robotics, and simulation. Students will learn and use multiple programming software/languages such as HTML, C+, Arduino, Java, App Inventor & Python<sup>®</sup>. Students will work to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. **Students enrolled in this course are required to take the AP Computer Science Principles exam.**

**21007H ENGINEERING DESIGN AND DEVELOPMENT (EDD) HONORS****12****1.0**

**Prerequisites:** **2 completed** PLTW courses and/or a desire to pursue engineering/technology degree **AND** Teacher Recommendation (Includes Environmental Sustainability and Computer Science & Engineering or Principles). This course is a capstone course that encompasses the PLTW courses, math, science, and English. This curriculum is designed to allow the student to learn how to solve technical problems by following methodologies that scientists and engineers use. Students will identify current real-world problems and develop an engineering solution through Research, Design, CAD design, Prototyping and Testing solutions. *\*Students must have earned college credit in IED and POE in order to earn credit for EDD (University of New Haven only).*

## **MANUFACTURING COURSES**

**13202 TECHNICAL METALS 1****9-12****0.5****Prerequisites:** None

This course will serve all students who are interested in applying academic concepts to the manufacturing industry of metals. Using traditional metalworking tools and equipment, students will create projects involving planning, layout, and measurement. Students will work in the traditional areas of MIG welding, sheet metal, iron working, and machine tool with contemporary emphasis on applied math and science.

<b>13203 TECHNICAL METALS 2</b>	<b>9-12</b>	<b>0.5</b>
<b>Prerequisites:</b> Technical Metals 1 and/or Teacher Recommendation		
Students will further develop their metal fabrication skills they learned in Tech Metals 1. They will expand their skill sets in mill and lathe machining, stick and TIG welding, and forging, with attention to blueprint reading and precision measurements. Lessons will be done through hands on approach. Students will learn problem-solving skills in repair and independent projects. <i>*May be repeated with teacher permission only.</i>		
<b>17006 WOODWORKING 1</b>	<b>9-12</b>	<b>0.5</b>
<b>Prerequisites:</b> None		
This course introduces students to the various kinds of woods used in the industry and offer experience in using selected woodworking tools. Students design and construct two or more projects and may prepare a bill of materials. Correct and safe use of tools and equipment is emphasized. As students advance, they will focus on developing skills in the workshop and becoming familiar with various kinds of wood finishing materials. Advanced students typically design a project, prepare bill of materials, construct, and finish proposed projects.		
<b>13054 ADVANCED WOOD PROJECTS AND CONSTRUCTION</b>	<b>9-12</b>	<b>0.5</b>
<b>Prerequisites:</b> Woodworking 1 or Teacher Permission		
This is an advanced course in manufacturing through the study of woodworking and wood construction. This course will be run as a combination of the Advanced Woodworking and Residential Construction classes. Students will be instructed through a hands-on, problem-solving approach. Course topics will include units on Mass Production, Cabinetry, Advanced Techniques & Joinery, and Residential Wood Framing & Construction. Class projects will include advanced woodworking projects, class production projects, a wood-framed garden shed to be sold to a local customer, and any other project as needed by the school or town community.		

## **TRANSPORTATION COURSES**

<b>20110 SMALL ENGINES</b>	<b>9-12</b>	<b>0.5</b>
<b>Prerequisites:</b> None		
Students will disassemble and reassemble small engines in order to learn about engine theory, engine part and engine function. Students will also learn to troubleshoot and repair small engine equipment using hand tools and specialty equipment. <i>*May not be repeated for credit.</i>		
<b>20103 BASIC AUTOMOTIVE SYSTEMS</b>	<b>10-12</b>	<b>0.5</b>
<b>Prerequisites:</b> None		
Students will study various technologies and their application to an automobile. Students will learn to perform a variety of maintenance and repair procedures. Instruction includes lectures, demonstrations, and hands-on involvement.		
<b>20106 ADVANCED AUTOMOTIVE</b>	<b>10-12</b>	<b>0.5</b>
<b>Prerequisites:</b> Basic Auto AND/OR Teacher Recommendation		
This course is an in-depth study of current and emerging technologies as applied to automobiles. Students will get involved in all phases of diagnosis and repair work. Instructions include lectures, demonstrations, and hands-on involvement. <i>*May be repeated for credit with instructor and administrator permission.</i>		

# **SPECIAL EDUCATION DEPARTMENT**

## **PHILOSOPHY**

All students possess unique physical, cultural, linguistic, intellectual, and psychological characteristics. The Targeted Instruction programs uphold the development of educational strategies that create systemic unity between special and general education at the high school. The expectations for students with disabilities are the same as those outlined for all students in Connecticut Core Standards. This philosophy is in concert with the Connecticut State Board of Education position statement. Targeted Instruction assists students with disabilities so they can experience success with the demands of general education academics. These instructional programs challenge our students to develop the knowledge, skills, and independence to contribute to a global society.

### **REQUIREMENTS FOR ALL COURSES:**

#### **Individualized Education Plan (IEP)**

### **TARGETED INSTRUCTION:**

**9-12**

**0.5**

- Course prepares students for success in high school and for postsecondary education and/or employment.
- Designed to meet the specific individual needs of students with special needs based on their IEP goals
- Direct instruction is provided in student's area of need based on PPT decision:
  - TI Math 22253M
  - TI Writing 22253W
  - TI Reading 22253R
  - TI Study Skills 22253SS
  - TI Social Development 22253SD
  - Consumer Math

### **HK TRANSITIONS PROGRAM**

- Designed to meet the individual student's IEP transition goals
- Practical academics relating to competitive employment goals
- Individualized or small group instruction
- Assistive technology is employed to support and supplement learning
- Community-based job shadowing and internships are an integral component

# NOTICE of NON-DISCRIMINATION

The Regional School District 17 Haddam Killingworth Schools does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities and provides equal access to the Boy Scouts and other designated youth groups. The following person has been designated to handle inquiries regarding the non-discrimination policies.

Dr. Kris Lindsay, Director of Student Services  
504 District Coordinator, Title IX Coordinator  
RSD 17 Schools  
57 Little City Road  
Higganum, CT 06441  
860-345-4244  
[klindsay@rsd17.org](mailto:klindsay@rsd17.org)

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## ACCREDITATION STATEMENT

Haddam–Killingworth 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 that 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 resources to achieve its stated purposes through appropriate 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. As such, it is not a guarantee of the quality of every course or program offered, or the competence of individual graduates. Rather, 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**  
**209 BURLINGTON ROAD**  
**BEDFORD, MASSACHUSETTS 01730-1433**  
**PHONE: 781-271-0022**  
**FAX: 781-271-0950**  
**[www.neasc.org](http://www.neasc.org)**