



Waterbury Public Schools
Today's Students, Tomorrow's Leaders

High School Program of Studies 2021-2022 School Year



Waterbury Public Schools Senior Leadership Team

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Mrs. Doreen Biolo	Chief Financial Officer
Mr. William F. Clark	Chief Operating Officer
Mr. Matthew Brown	Chief Turnaround Officer
Mr. Juan Mendoza	Assistant Superintendent for Human Capital & Talent Management
Mrs. Nyree Toucet	Director of College and Career Readiness
Vacant	Director of Pupil Services
Mrs. Sujata Wycoff	Director of Communications
Ms. Tara Shaw	BOE Attorney
Mrs. Noreen Buckley	Assistant Superintendent
Dr. Janice Epperson	Assistant Superintendent

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Dear Students and Families,

The Waterbury Public School's Academic Office is pleased to provide a comprehensive Program of Studies for students in grades 9-12. We believe in creating an environment that fosters exploration in areas of interest, while providing a solid foundation in core academic subjects. The district continues to refine courses to ensure students master standards and expand knowledge and skills through the fine arts and earn industry standard credentials in career and technical education. The vast array of offerings and career pathways provide a route to high school graduation that prepares each student for college and/or career.

It is imperative that students work with school counselors to fully understand graduation requirements and to advocate for course offerings of interest. All students with disabilities who are eligible for special education services participate in the secondary curriculum according to their Individualized Educational Plans (IEP). Before making final decisions on courses, I suggest the following logic model as you prepare to enroll:

1. Take the time to browse through the Program of Studies and know your options. Jot down a few courses that are of particular interest to you.
2. Pay particular attention to concentrators, courses that build on one another. Completing the sequence of courses shows colleges/universities/employers that you have gained specific knowledge and skills in one area.
3. Understand credit requirements, and in consultation with a school counselor, select core courses that are required for graduation first.
4. Ask questions and don't hesitate to keep asking!
5. Maintain balance in your coursework and align it to your ultimate goal as a graduate.
6. Register with your counselor as early as possible.

As you browse the courses available to you at your campus, do so with these words in mind by Mae Jemison, "It's your place in the world; it's your life. Go on and do all you can with it, and make it the life you want to live." Seeking out subjects that you are interested in or have a budding passion for is one of the gifts of a high school education.

Sincerely,



Darren M. Schwartz
Chief Academic Officer

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H: Humanities • S: STEM • WL: World Languages • PW: Physical Wellness

C: Crosby • K: Kennedy • W: Wilby • WAMS: Waterbury Arts Magnet • WCA: Career Academy • SS: State Street • E: Enlightenment

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Portrait of the Graduate



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Waterbury Public Schools Academic Office Secondary Leadership Team

Mr. Darren M. Schwartz, Chief Academic Officer

Department	Supervisor	Email
Career and Technical Education	Mr. Michael Merati	mmerati@waterbury.k12.ct.us
English/Language Arts (Secondary)	Dr. Michelle Eckler	meckler@waterbury.k12.ct.us
ESL/Bilingual Education (K-12)	Mrs. Adela Jorge-Ferguson	ajorgeferguson@waterbury.k12.ct.us
Fine Arts (K-12)	Holly Maxson	hmaxson@waterbury.k12.ct.us
Health & Physical Education (K-12)	Mr. Joseph R. Gorman	jpgorman@waterbury.k12.ct.us
Mathematics (Secondary)	Ms. Jeannine Minort-Kale	jminort-kale@waterbury.k12.ct.us
Science (K-12)	Mrs. Kari Nizzardo	knizzardo@waterbury.k12.ct.us
Social Studies (K-12)	Mrs. Veda Harris	pharris@waterbury.k12.ct.us

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Waterbury Public Schools High School Administrative Team

Dr. Janice Epperson, Assistant Superintendent

School	Administrator	Email
Crosby High School	Ms. Cathi Newmark, Interim Principal	cnewmark@waterbury.k12.ct.us
	Mr. Salvatore Vollero, Vice Principal	svollero@waterbury.k12.ct.us
	Ms. Melissa Richardson, Vice Principal	mrichardson@waterbury.k12.ct.us
	Mr. Sean Mosley, Interim Vice Principal	smosley@waterbury.k12.ct.us
Kennedy High School	Mr. Robert Johnston, Principal	rjohnston@waterbury.k12.ct.us
	Mr. George Smalley, Vice Principal	gsmalley@waterbury.k12.ct.us
	Mr. Matthew Gwiazdoski, Vice Principal	mgwiazdoski@waterbury.k12.ct.us
	Ms. Rosalyn Glass, Vice Principal	rglass@waterbury.k12.ct.us
Wilby High School	Dr. Michelle Baker, Principal	mbaker@waterbury.k12.ct.us
	Ms. Lori Peck, Vice Principal	lpeck@waterbury.k12.ct.us
	Mr. Paul Drewery, Vice Principal	pdrewery@waterbury.k12.ct.us
	Ms. Elizabeth Henson, Vice Principal	ehenson@waterbury.k12.ct.us
	Mr. Joseph Begnal, Admin. on Sp. Assign.	jbegnal@waterbury.k12.ct.us
	Mrs. Lauren Elias, Admin. on Sp. Assign.	lelias@waterbury.k12.ct.us
WAMS High School	Mr. Nicholas Albini, Principal	nalbini@waterbury.k12.ct.us
	Dr. Maria Stasaitis, Vice Principal	mstasaitis@waterbury.k12.ct.us
	Mr. Joseph Nole, Vice Principal	jnole@waterbury.k12.ct.us
	Ms. Jennifer Deeley, Vice Principal	jdeeley@waterbury.k12.ct.us
Waterbury Career Academy High School	Mrs. Jade Gopie, Principal	jpgopie@waterbury.k12.ct.us
	Mrs. Jennifer Franceskino, Vice Principal	jfranceskino@waterbury.k12.ct.us
	Mr. Michael Harris, Vice Principal	mharris@waterbury.k12.ct.us

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Waterbury Public Schools High School Program of Studies 2021-2022

Vision Statement

ALL Waterbury Public Schools students will graduate ready to transform their world.

Mission Statement

The mission of Waterbury Public Schools is to inspire and prepare every student to be successful in and beyond school.

Theory of Action

If schools have:

- **Strong Leadership:** A principal to prioritize improvement and communicate its urgency, monitor goals, customize and target support to meet needs
- **Instructional Transformation:** Processes and supports that help teachers collaborate to improve standards-based instructional practice so that students can engage in deep learning tasks, respond to student learning needs, provide rigorous evidence-based instruction, and remove barriers while providing opportunities
- **Culture Shift:** Staff ensure collective responsibility for both the quality of instruction and student learning and success, engage students and families in pursuing education goals
- **Talent Development:** Recruit, develop, retain, and sustain talent, target professional learning opportunities, while setting clear performance expectations

Then schools will dramatically improve and student learning will increase.

Core Values

- Holds high expectations for excellence in teaching and learning
- Promotes equity in policy, practice and resources
- Provides students a quality learning experience aligned to our Portrait of a Graduate
- Acts as stewards for community resources and managing our assets to ensure equity and excellence
- Recognizes that meaningful relationships are the foundation of a high-quality education
- Committed to embracing a diverse community
- Committed to civility, honesty, responsibility and transparency

High School Graduation Exit Criteria for Graduating Class of 2022

To complete the graduation requirements and receive a high school diploma from the City of Waterbury Public Schools, a student must meet the following requirements:

Graduation Requirements 22 credits	
4.0	English
3.0	Mathematics
2.0	Science
3.0	Social Studies (1.0 US History & 0.5 Civics)
1.0	Physical Education (0.5 Health)
1.0	Arts and/or Vocational Education
8.0	Open Electives

- A student must earn five (5) Carnegie units to be promoted to the 10th grade.
- A student must earn ten (10) Carnegie units and have completed the 10th grade to be promoted to the 11th grade.
- A student must earn fifteen (15) Carnegie units and have completed three (3) years of high school to be promoted to the 12th grade.

Twenty-two (22) Carnegie Units are required for graduation. All students must follow the core curriculum as outlined by the Board of Education. Further, if a student has credits withheld due to unexcused absences, in accordance with the Board of Education attendance policy, those credits are declared unearned credits.

Carnegie Units	Meeting Times	C.U.'s Earned
Extended courses	15 periods/per week	3.0 c.u.
Extended courses	10 periods/per week	2.0 c.u.
Lab Sciences courses	6 periods/per week	1.2 c.u.
Regular courses	5 periods/per week	1.0 c.u.
Elective courses	4 periods/per week	.8 c.u.
½ year courses	5 periods/per week	.5 c.u.
½ year courses	4 periods/per week	.4 c.u.

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Course Planning Worksheet for the Graduating Class of 2022

Courses listed in grey are standard required courses for students in that grade level.

Subject	9th Grade (5 credits required for promotion)	10th Grade (10 credits required for promotion)	11th Grade (15 credits required for promotion)	12th Grade (22 credits required for graduation)
English 4.0 credits	English 1	English 2	English 3 (or other approved junior level English course)	English 4 (or other approved senior level English course)
Mathematics 3.0 Credits	Algebra I	Geometry	Algebra II	Optional Elective Course (STEM)
Science 2.0 Credits	Integrated Earth and Physical Science OR Biology	Biology or Chemistry	Chemistry or Physics	Optional Elective Course (STEM)
Social Studies 3.0 credits (1.0 Credit in US History, Credit in Civics Required)	Modern World History	Civics (0.5) US History II (0.5)	US History III (or other approved junior year course)	Optional Elective Course (Humanities)
Physical Education 1.0 Credit (0.5 Credit in Health Required)	Health Wellness and Personal Conditioning 1 AND Lifetime Health Wellness and Recreation 1			
Arts and/or Career & Technical Education 1.0 Credit				
Electives 8.0 Credits				

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High School Graduation Exit Criteria for Graduating Classes of 2023 and Beyond

To complete the graduation requirements and receive a high school diploma from the City of Waterbury Public Schools, a student must meet the following requirements:

Graduation Requirements 25 credits
9.0 Humanities (including civics and the arts)
9.0 STEM (Science, Technology, Engineering and Mathematics)
1.0 World Language
1.0 Physical Education and Wellness
1.0 Health and Safety Education
1.0 Mastery-Based Diploma Assessment
3.0 Open Electives

- A student must earn six (6) Carnegie units to be promoted to the 10th grade.
- A student must earn twelve (12) Carnegie units and have completed the 10th grade to be promoted to the 11th grade.
- A student must earn eighteen (18) Carnegie units to be promoted to the 12th grade.

Twenty-five (25) Carnegie Units are required for graduation. All students must follow the core curriculum as outlined by the Board of Education. Further, if a student has credits withheld due to unexcused absences, in accordance with the Board of Education attendance policy, those credits are declared unearned credits.

Carnegie Units	Meeting Times	C.U.'s Earned
Extended courses	15 periods/per week	3.0 c.u.
Extended courses	10 periods/per week	2.0 c.u.
Lab Sciences courses	6 periods/per week	1.2 c.u.
Regular courses	5 periods/per week	1.0 c.u.
Elective courses	4 periods/per week	.8 c.u.
½ year courses	5 periods/per week	.5 c.u.
½ year courses	4 periods/per week	.4 c.u.

(NOTE: Graduating Class is defined as a group of students who started ninth grade for the first time and are expected to graduate in four years. For example, if a student started as a freshman in 2019/2020 then their expected graduating class would be 2023.)

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Course Planning Worksheet for the Graduating Class of 2023 and Beyond

Courses listed in grey are standard required courses for students in that grade level.

Subject	9th Grade (6 credits required for promotion)	10th Grade (12 credits required for promotion)	11th Grade (18 credits required for promotion)	12th Grade (25 credits required for graduation)
Humanities 9.0 Credits	English 1	English 2	English 3 (or other approved junior level English course, e.g. AP or ECE courses)	English 4 (or other approved senior level English course, e.g. AP or ECE courses)
	Modern World History	Civics (0.5) US History II (0.5)	US History III (or other approved US History Social Studies course, e.g. AP or ECE courses)	Optional Elective Course (Humanities)
	2 additional electives in the humanities are required (one in Fine or Performing Arts is required)			
STEM 9.0 Credits	Algebra I	Geometry	Algebra II	Optional Elective Course (STEM)
	Integrated Earth and Physical Science -OR- Biology AND Integrated Earth and Physical Science	Biology and/or Chemistry	Chemistry or Physics or Environmental (or other approved junior level Science course, e.g. AP or ECE courses)	Optional Elective Course (STEM)
	3 additional electives in the STEM program are required (one in CTE is required)			
World Language 1.0 Credit				
Physical Education and Wellness 1.0 Credit	Health Wellness and Personal Conditioning 1 AND Lifetime Health Wellness and Recreation 1	Health Wellness and Personal Conditioning 2 AND Lifetime Health Wellness and Recreation 2		
Health and Safety Education 1.0 Credit				
Mastery-Based Diploma Assessment 1.0 Credit				
Open Electives 3.0 Credit				

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High School Honor Roll, Grading, and Quality Point Ranking

Honor Roll

The designation of High Honors and Honors will be based on GPA each marking period.

- High Honor Roll: Average of 90 or above and no individual grade below 80
- Honor Roll: Average of 80-89 and no individual grade below 70

In the event that schools are unexpectedly closed under a municipal, state or federal mandate for ten (10) or more consecutive school days, and with the approval of the Board of Education, the Superintendent will provide equitable grading procedures in the best interest of all students that account for such a closure and communicate the changes in procedures. In the event of such a closure, the Superintendent's grading procedures will supersede the formulas and grading policies. These procedures will remain in effect, by decision of the Superintendent and the Board of Education, until a time deemed appropriate.

Passing Grades

The passing numerical grade is 65. District-wide curriculum offerings at the high schools will consist of core academics and electives. Selected district-wide core and elective courses at the Accelerated Level will be modified to incorporate extended requirements for students to earn additional quality points.

To achieve a passing grade for the class for the year a student must have an average credit value of 1.0 for the entire year as calculated for a final grade.

Final grades will be calculated with the each quarter worth 20% of a students' grade and the midterm exam and final exam each worth 10% of the final grade. (In half-year courses, the final exam for the course will count as 20% of the course grade).

To qualify for Summer School students need to earn a numerical grade of 40 for the academic year as a sum of the four quarter credit values (exam grades are not included).

A grade of "E" is given to any student that is denied credit for excessive absences. A grade of "I" is given if the teacher determines that the student's work is incomplete. Grades of "I" can be changed by a teacher at any point during the year. Any grade of "I" that remains at the conclusion of September of the next school year will be changed to an "F".

Extracurricular Activities

Students who have not earned the required Carnegie Units for the designated rank will be ineligible to participate in extracurricular activities. As soon as students exceed unexcused absences, in accordance with the Board of Education attendance policy, they will be immediately ineligible to participate in extracurricular activities (all after school programs). Students who have not maintained a 1.67 GPA or higher during the marking period preceding AND during the student's participation will be ineligible to participate in extracurricular activities. (See Student –Athlete Eligibility Checklist-High School also)

Grade Point Average

Students are provided with a non-weighted Grade Point Average and a weighted Quality Point Ranking (QPR) at the end of each academic year, excluding senior year. Final senior GPAs and QPRs will be determined after seven semesters. GPA (non-weighted) ranges from 4.33 to 0 and is an indicator of academic success; QPR (weighted) ranges from 15.5 to 0 and is an indicator of average academic rigor. In each case, the higher the numeric value, the more successful the academic performance.

Overall Grade Point Average: An overall GPA will be calculated based on the un-weighted arithmetic average of grades in all courses, using numerical grade values as follows:

A+ = 4.33	B+ = 3.33	C+ = 2.33	D+ = 1.33
A = 4.0	B = 3.0	C = 2.0	D = 1.0
A- = 3.67	B- = 2.67	C- = 1.67	F = 0.00

$$\text{Overall GPA} = \frac{\sum (\text{Course Credit} * \text{Course GPA})}{\sum \text{Course Credits}}$$

Quality Point Ranking (QPR)/Class Rank: The Waterbury Public School System believes it is necessary and important to provide differentiated quality points for the purpose of weighting its academic course offerings at the high school. The current curriculum contains a wide variety of courses at various levels of academic challenge. Students are allowed considerable choice and are encouraged to strive for academic excellence. Grade weighting encourages and rewards students for selecting courses at more challenging levels of difficulty.

Quality points are the weights that are assigned to courses in order to communicate their differing academic challenge. Weights assigned to academic courses communicate the level of academic challenge inherent in each course to students and their parents; therefore, the weights assigned help students to make more appropriate course selections. Additional weights assigned to college preparatory courses recognize that more challenging courses require advanced levels of work; therefore, advanced courses have higher course weights.

A grade weighting/class ranking system shall be implemented for the high schools as follows:

MIN	MAX		AP/UCONN	ACE/ATOMS/SOAR		
97	100	A+	15.5	14	13	11
93	96	A	14.5	13	12	10
90	92	A-	13.5	12	11	9
87	89	B+	12.5	11	10	8
83	86	B	11.5	10	9	7
80	82	B-	10	9	8	6
77	79	C+	9	8	7	5
73	76	C	8	7	6	4
70	72	C-	7	6	5	3
67	69	D+	6	5	4	2
65	66	D	5	4	3	1
Below 65		F	0	0	0	0

All grades shall be rounded to the nearest whole number.

$$\text{Overall GPA} = \frac{\sum (\text{Course Credit} * \text{Course GPA})}{\sum \text{Course Credits}}$$

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Special Education Programming

The Waterbury Public Schools special education programming provides a comprehensive program to meet the needs of our diverse learners identified with specific exceptionalities. Through the Planning and Placement Team (PPT) process, students with Individualized Educational Plans (IEPs) are provided with rich and robust programming to help them to reach their full academic and social potentials while maintaining the least restrictive environment (LRE) possible. Students in all of the Waterbury Public Schools Special Education Programs are given opportunities to align themselves with the Vision of the Graduate in order to best suit their individual post-secondary track of choice.

Core Academics

All students, regardless of their academic placement or achievement, have the opportunity to earn credit in their core academic programming (English, Mathematics, Science, Social Studies, and World Languages). Whether in a regular classroom setting or a more specific, IEP based setting, all students are provided with the necessary support to work at their own pace in order to access the characteristics of the Vision of the Graduate. Students requiring specialized instruction in the core academics receive more individualized instruction structured to meet the goals and objectives of their IEP.

State Street Program

The State Street Program is a self-contained Special Education program housed in-district for students enrolled in Pre-K through 12th grade. Our students have been identified as having some degree of social, emotional, mental health, and/or behavioral needs which impact their academic success at a comprehensive school. Students participating in the State Street Program, through their Individualized Education Program (IEP) will have access to all extra curricular activities that take place at, or are sponsored by the child's home school. Students will have access to individual courses at their home school, as appropriate to their Least Restrictive Environment (LRE). In alignment with the Waterbury Public Schools Portrait of a Graduate, our students benefit from learning in a small, therapeutic setting from teachers who implement lessons and deliver instruction in such a way that their unique, individualized needs are being addressed. The State Street Program utilizes an extensive counseling component as well as the Positive Behavior Interventions and Supports system in order to promote healthy social-emotional development. Every effort is made to establish collaborative relationships with the families and community providers of our students so that we can work together as a team to best position them for success. Courses at the State Street program are offered in half year increments but follow the same full year curriculum as listed in the Program of Studies.

Enlightenment School

Enlightenment, in partnership with communities and families, works to provide all students the opportunity to achieve their academic potential, improve attendance and become responsible, independent, productive global citizens. Enlightenment provides a dynamic, nurturing, challenging, and safe school environment that assists all students in building positive relationships while attaining their educational, personal/social/emotional, and career goals. In alignment with the Waterbury Public Schools Portrait of a Graduate, our Enlightenment students benefit from learning in a small setting with teachers and interventionists who develop lessons and deliver instruction in tiered settings aimed at meeting the learning needs of each student. Courses at Enlightenment School are offered in half year increments but follow the same full year curriculum as listed in the Program of Studies.

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Academies

All Waterbury Public Schools students have the opportunity to select into an Academy of their choice. Each Academy has multiple Career Pathways and rigorous Programs of Studies that details each sequenced course students will engage in. The focus of each Academy is to prepare all students for [college, career & life readiness](#). To accomplish this, students will be provided with a comprehensive experience that focuses on [middle skilled jobs](#), dual enrollment courses, [industry recognized credentials](#), [work based learning experiences](#), [employability skills](#), [Habits of Mind](#) and [Career Ready Practices](#). This focus will increase future opportunities for our students. The following are the Waterbury Public Schools Academies.

- Business, Finance, Marketing & Entrepreneurship
- Education & Training
- Health Sciences
- Information Technology & Engineering
- Manufacturing, Construction & Industrial Systems
- Early College High School with Post University

College Course Offerings

Dual-enrollment courses are an excellent way for Waterbury Public Schools students to challenge themselves while also earning college credit. For all dual-enrollment courses, Waterbury Public Schools must adhere to its articulation agreement with each institution of higher education for course requirements. The successful completion of any dual enrollment course results in an official transcript from that institution with the grade earned. Students may attempt to transfer any and all dual-enrollment credits to the institution at which they enroll. Students are responsible for the application to each program.

University of Connecticut Early College Experience (ECE)

UConn Early College Experience (ECE) provides students the opportunity to take university courses while still in high school. These challenging courses allow students to preview college work, build confidence in their readiness for college and earn college credits that provide both an academic and a financial head start on a college degree.



ECE instructors, who are certified as adjunct professors by the 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 made available to all ECE students.

ECE students must successfully complete the courses with a grade of C or better in order to receive university credit. University credits are highly transferable to other universities. Students are charged a nominal per credit fee. The fee is waived for students who qualify for free and reduced lunch. For additional information visit: www.ece.uconn.edu. ***In addition, students will earn a full high school credit for the successful completion of an ECE course regardless of if the course is offered for a full or half year.***

UConn Early College Experience Program Courses

Seminar in Academic Writing (ENGL 1010)
 Seminar in Writing through Literature (ENGL 1011)
 Seminar in American Studies (AMST 1201)
 Elementary Concepts of Statistics (STAT 1100Q)
 Elementary Discrete Mathematics (MATH 1030Q)
 Calculus I (MATH 1131Q)
 Principles of Biology (BIOL 1107)
 General Chemistry I (CHEM 1127Q)
 General Chemistry II (CHEM 1128Q)
 Environmental Science (NRE 1000E)
 General Physics I (PHYS 1201Q)
 Medical Terminology (AH 2001)
 Introduction to Allied Health Professions (AH 1100)

H: Humanities • S: STEM • WL: World Languages • PW: Physical Wellness

C: Crosby • K: Kennedy • W: Wilby • WAMS: Waterbury Arts Magnet • WCA: Career Academy • SS: State Street • E: Enlightenment

Individual & Family Development (HDFS 1070)
EMT Training (AH 4092)
If You Love It, Teach It (EDCI 1100)
Introduction to Special Education (EPSY 1100)
Introduction to Human Rights (HRTS 1007)
Introduction to Genocide Studies (HRTS 2200)
Seminar in American Studies (AMST 1201)
Western Traditions Before 1500 (HIST 1300)
Modern Western Traditions (HIST 1400)
Introduction to Sociology (SOC 1001)
United States History Since 1877 (HIST 1501)
Introduction to American Politics (POLS 1602)
Italian Composition & Conversation 1 (ILCS 3239)

Post University High School Academy

Provides high school students the opportunity to enroll in undergraduate college courses. In these 3-credit courses, students interact with their peers and Post University faculty members in engaging, challenging, college-level coursework.

ACC111 - Financial Accounting
MGT105 - Introduction to Management
MKT200 - Principles of Marketing



Early College High School Post University

An Early College High School offers students the opportunity to take college courses to accelerate their progress through secondary and postsecondary education. ECHS provides intensive academic and personal support and the opportunity to earn college credit toward a degree or credential, at no cost to the student, while earning a high school diploma. They have proven effective for students from low-income families and other backgrounds underrepresented in higher education, many of whom earn an Associate degree upon graduating high school (Jobs for Future, 2017). ECHS prepares students for successful futures through a full integration of high school, college and career.

- Early College High School allows students to earn a high school diploma and an Associate degree, or up to two years of college credit.
- This differs from dual enrollment, where students are enrolled in a traditional high school and take college classes.
- Students' college classes replace some of their high school classes.
- ECHS challenges and inspires students by offering them the opportunity to earn significant college credit, and potentially an Associate degree, while still in high school.

H: Humanities • S: STEM • WL: World Languages • PW: Physical Wellness

C: Crosby • K: Kennedy • W: Wilby • WAMS: Waterbury Arts Magnet • WCA: Career Academy • SS: State Street • E: Enlightenment

Course Sequence

Grade 9	Grade 10	Grade 11	Grade 12
College Success Seminar	Introduction to Communications	Determined by students expressed degree track	Determined by students expressed degree track
Introduction to Computing	Literature And Composition		
College Writing	Humanities Or Liberal Arts Elective (I.E. Intro To Psychology, Intro To Law)		

The College Career Pathways (CCP) program encourages students to pursue an associate or baccalaureate degree in their chosen career and technical education area. Students formally enroll in post secondary institutions and register for academic and technical courses. Students have the opportunity to earn college credit in a non-duplicative sequence of coursework.

Naugatuck Valley Community College Program Courses

Culinary (C, W)

Manufacturing (C, K, W) offsite

Various Manufacturing Courses (WCA)



H: Humanities • S: STEM • WL: World Languages • PW: Physical Wellness

C: Crosby • K: Kennedy • W: Wilby • WAMS: Waterbury Arts Magnet • WCA: Career Academy • SS: State Street • E: Enlightenment

English/Language Arts Department

Dr. Michelle Eckler, Supervisor of Secondary English Language Arts

The English/Language Arts department's belief system is grounded in the notion that learners make meaning through sharing, discussing, exchanging, and refining experience and language. We encourage students to embrace reading and writing as an integral and important aspect of their high school and postsecondary lives. Our goal is to provide instruction that is relevant and rigorous, causing learners to think deeply. We encourage students to develop their sophistication as readers, writers, and thinkers of the 21st Century.

The ELA Curriculum provides students with a rigorous academic experience. The curriculum units are carefully designed to ensure skill practice in reading, writing, researching, and listening and speaking in order to provide rigorous learning experiences aligned to the CT Core Standards. Each unit of study builds on the previous one to ensure that students have acquired the prerequisite skills to move onto the next level of learning. Students are required to take four years of English. The core English curriculum is a college preparatory program, with electives that accentuate aspects of fine arts, technology, mass communication, and the humanities. Courses in the ELA department include the following instructional strategies:

- explicit instruction in close reading of various texts;
- guided discussions that lead to high-level, academic analysis;
- a wide range of research-based reading strategies that empower students and helps them develop fluency;
- scaffolded instruction and practice with complex text to move students toward learning independence.

Honors, AP, and College-Level Articulated Courses (UConn), which cover content to a greater depth and at a faster pace, will prepare students for admission requirements of colleges and universities.

Course Sequence

Grade 9	Grade 10	Grade 11	Grade 12
English 9	English 10	Course options include: <ul style="list-style-type: none"> • English 11 • AP Language and Composition • ECE: Seminar in American Studies 	Course options include: <ul style="list-style-type: none"> • English 12 • AP Literature and Composition • ECE: Seminar in Academic Writing • ECE: Seminar in Writing Through Literature

H: Humanities • S: STEM • WL: World Languages • PW: Physical Wellness

C: Crosby • K: Kennedy • W: Wilby • WAMS: Waterbury Arts Magnet • WCA: Career Academy • SS: State Street • E: Enlightenment

English/Language Arts Core Program Course Descriptions

ENGLISH 9 (H) **Course Code: 010/011** **Credits: 1.0** **Grade 9** **C, K, W, WAMS, WCA, E, SS**

The English 9 curriculum is comprised of four units of study including Telling Details, Pivotal Words and Phrases, Compelling Evidence, and Powerful Openings. Each unit of study builds on the previous one to ensure that students have acquired the prerequisite skills to move onto the next level of learning. The curriculum units are carefully designed to ensure skill practice in reading, writing, researching, listening, and speaking in order to prepare students for the next grade level. Students will engage in critical analysis of fictional literature and informational texts with a focus on developing vocabulary and reasoning skills. Key literature studied during the course include *Romeo and Juliet* by William Shakespeare, *To Kill a Mockingbird* by Harper Lee, selected fiction, selected non-fiction, and poetry. The English 9 curriculum is aligned with the SAT assessment in the skills it addresses.

ENGLISH 10 (H) **Course Code: 020/021** **Credits: 1.0** **Grade 10** **C, K, W, WAMS, WCA, E, SS**

The English 10 curriculum is comprised of four units of study including The Power of Argument, Persuasion in Literature, Voice in Synthesis, and Praise, Mock, Mourn. Each unit of study builds on the previous one to ensure that students have acquired the prerequisite skills to move onto the next level of learning. The curriculum units are carefully designed to ensure skill practice in reading, writing, researching, listening, and speaking in order to prepare students for the next grade level. Students will engage in critical analysis of fictional literature and informational texts with a focus on developing vocabulary and reasoning skills. Key literature studied during the course include *Things Fall Apart* by Chinua Acheve, *Antigone* by Sophocles, selected fiction, selected non-fiction, and poetry. The English 10 curriculum is aligned with the SAT assessment in the skills it addresses.

ENGLISH 11 (H) **Course Code: 030/031** **Credits: 1.0** **Grade 10** **C, K, W, WAMS, WCA, E, SS**

The English 11 curriculum is comprised of four units of study including The American Dream, The Power of Persuasion, American Forums: The Marketplace of Ideas, and An American Journey. Each unit of study builds on the previous one to ensure that students have acquired the prerequisite skills to move onto the next level of learning. The curriculum units are carefully designed to ensure skill practice in reading, writing, researching, listening, and speaking in order to prepare students for the next grade level. Students will engage in critical analysis of fictional literature and informational texts with a focus on developing vocabulary and reasoning skills. Key literature studied during the course include *Their Eyes Were Watching God* by Zora Neale Hurston, *The Crucible* by Arthur Miller, selected fiction, selected non-fiction, seminal United States documents, and poetry. The English 11 curriculum is aligned with the SAT assessment in the skills it addresses.

ECE: SEMINAR IN**Course Code: 030U****Credits: 1.0****Grade 10****AMERICAN STUDIES (H)****K**

Seminar in American Studies is a team taught, full year course that takes an interdisciplinary approach to the study of American culture. The course rests on two main pillars, the study of United States History and American Literature. The course also integrates art, architecture, and music to help the student develop a total picture of the American Experience. The course offers a variety of teaching strategies and learning activities. Students in Seminar in American Studies are assigned a double class period. After successful completion of the course, the student will have fulfilled the United States History requirement and the English 11 requirement.

AP LANGUAGE AND COMPOSITION (H) **Course Code: 030A** **Credits: 1.0** **Grade 11****K, W, WAMS, WCA**

Advanced Placement English Language and Composition is intended for advanced college preparatory junior level students. It is primarily a course in both effective writing and critical reading designed to strengthen the students' skills in analyzing the reasoning and expression for ideas in prose passages. AP English Language requires students to demonstrate skill in composition through the development of various rhetorical modes. Students are able to hone their own writing skills through attentive and continued analysis of a variety of prose texts. This course prepares students for further Advanced Placement study in English Literature and Composition (senior year) as well as for college courses.

ENGLISH 12 (H)**Course Code: 040/041** **Credits: 1.0****Grade 12****C, K, W, WAMS, WCA, E, SS**

The English 12 curriculum is comprised of four units of study including Perception is Everything, The Collective Perspective, Evolving Perspectives, Creating Perspectives. Each unit of study builds on the previous one to ensure that students have acquired the prerequisite skills to move onto the next level of learning. The curriculum units are carefully designed to ensure skill practice in reading, writing, researching, listening, and speaking in order to prepare students for the next grade level. Students will engage in critical analysis of fictional literature and informational texts with a focus on developing vocabulary and reasoning skills. Key literature studied during the course include The Tragedy of Othello by William Shakespeare, Pygmalion by George Bernard Shaw, selected fiction, selected non-fiction, seminal United States documents, and poetry. The English 12 curriculum is aligned with the SAT assessment in the skills it addresses.

**AP LITERATURE AND
COMPOSITION (H)
K, W, WAMS**

Course Code: 040A

Credits: 1.0

Grade 12

The AP English Literature and Composition course is designed to engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students can deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. Writing assignments focus on the critical analysis of literature and include expository, analytical, and argumentative essays.

**ECE: SEMINAR IN
ACADEMIC WRITING (H)
C, WAMS**

Course Code: 040U

Credits: 1.0

Grade 12

Prerequisite: Successful completion of English 11, an ERW score of 550 or higher on the SATs (recommended), and teacher recommendation. This college-level course for advanced learners provides instruction in academic writing through interdisciplinary readings. Assignments emphasize interpretation, argumentation, and reflection, as well as revision of formal assignments and instruction on grammar, mechanics and style. The focus of this course is to prepare the advanced student for success on college writing assignments in a variety of disciplines. Successful completion of this course meets the criteria for UCONN's FYW (First Year Writing) requirement, and eligibility to earn 4 transferable credits from the University of Connecticut. This course also meets the City of Waterbury requirements for grade 12 English.

**ECE: SEMINAR IN WRITING
THROUGH LITERATURE (H)
C, WCA**

Course Code: 051U

Credits: 1.0

Grade 12

Prerequisite: Successful completion of English 11, an ERW score of 550 or higher on the SATs (recommended), and teacher recommendation. This college-level course for advanced learners provides instruction in academic writing, using literature as the assigned readings. Assignments emphasize interpretation, argumentation, and reflection, as well as revision of formal assignments and instruction on grammar, mechanics, and style. The focus of this course is to prepare the advanced student for success on college writing assignments in the area of humanities. Successful completion of this course meets the criteria for UCONN's FYW (First Year Writing) requirement, and eligibility to earn 4 transferable credits from the University of Connecticut. This course also meets the City of Waterbury requirements for grade 12 English.

DRAMA 2 (H)
C, K, W**Course Code: 086****Credits: 1.0****Grades 10-12***Prerequisite: Drama 1*

This course continues to hone skills acquired in Drama 1, adding the art and technique of directing. Diction, projection, and elocution in speaking are practiced and studied. Playwriting becomes more complex, with emphasis on a deeper understanding of human nature through drama.

Mathematics Department

Ms. Jeannine Minort-Kale, Supervisor of Secondary Mathematics

The Mathematics Department believes that all students have the potential to achieve at high levels in the study of mathematics and is committed to providing every student a high quality mathematics education. To that end, content and instruction are aligned with the rigorous Connecticut Core Standards and the Standards for Mathematical Practice. The Standards for Mathematical Practice describe characteristics and traits that mathematics educators at all levels should seek to develop in their students.

- Make sense of problems and persevere in solving them
- Reason abstractly and quantitatively
- Construct viable arguments and critique the reasoning of others
- Model with mathematics
- Use appropriate tools strategically
- Attend to precision
- Look for and make use of structure
- Look for and express regularity in repeated reasoning

Placement in the Mathematics Sequence

Honors and AP level and College-Level Articulated Courses (UCONN, NVCC) courses in the program, which covers content to a greater depth and at a faster pace, will prepare students for admission requirements of colleges and universities. Honors math courses differ from the core curriculum in the number of topics assessed, the pace of the course, and the complexity or depth to which topics are expected to be learned.

Course Sequence

Students are required to take three years of mathematics and are strongly encouraged to take a fourth year.

3 Credit Pathway	4 Credit College Prep Pathway	4 Credit Honors Pathway
Algebra I Geometry Algebra II	Algebra I Geometry Algebra II <u>AND one of the following:</u> Precalculus Trigonometry and Statistics	Honors Algebra I Honors Geometry Honors Algebra II <u>AND one of the following:</u> Honors Pre-calculus AP Calculus AB/BC AP Statistics

H: Humanities ● S: STEM ● WL: World Languages ● PW: Physical Wellness

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Mathematics Core Program Course Descriptions

ALGEBRA I (S)

Course Code: 301/301 Credits: 1.0

C, K, W, WAMS, WCA, E, SS

Algebra I expands upon the properties of equality, relationships between variables, and algebraic reasoning developed in middle grades to create the foundation for all future mathematics courses. Topics include the study of patterns, an introduction to functions, modeling with and solving equations and inequalities, graphing and modeling linear functions in various forms, systems of equations, exploring exponential functions, and polynomials. In addition, students engage in a beginning study of bivariate data analysis including correlation and lines of best fit. Common Core State Standards are taught and reinforced as the student learns how to apply these concepts in real-life situations.

ALGEBRA I HONORS (S)

Course Code: 300/300K Credits: 1.0

C, K, W, WAMS, WCA

Prerequisite: Department approval. The Honors level covers the same core skills as those in Algebra I but at a faster pace and with increased depth. In addition, students will extend their work with functions and equations to include quadratics and piecewise functions. Additional topics such as introductory trigonometry and geometric applications will be explored as time allows. (Includes ACE/ATOMS/SOAR Programs.)

GEOMETRY (S)

Course Code: 351/351I Credits: 1.0

C, K, W, WAMS, WCA, E, SS

Prerequisite: Successful completion of Algebra I. Based on the real-life applications of geometry, a student will investigate concepts in geometry such as congruence and similarity and apply that knowledge when conducting proofs and constructions. Coordinate geometry is also used, which integrates Algebra skills from the prior years. Critical thinking and problem-solving is emphasized as well as continued development of the skills needed to effectively communicate mathematical ideas.

GEOMETRY HONORS (S)

Course Code: 350/350K Credits: 1.0

C, K, W, WAMS, WCA

Prerequisite: Grade of B or better in Algebra I Honors or Algebra I ACE or A in Geometry and departmental approval. This is an accelerated course that focuses on an in-depth understanding of the relationships of congruence and similarity, the structures used to analyze them and the language used to communicate these ideas. Constructing proofs, use of coordinate geometry and the study of conic sections are included. This course requires a greater degree of independence and competence in critical thinking and communicating mathematically. (Includes ACE/ATOMS/SOAR Programs.)

ALGEBRA II (S)**Course Code: 321/321I Credits: 1.0****C, K, W, WAMS, WCA, E, SS**

Prerequisite: Successful completion of Geometry. Algebra II students build on the skills acquired in Algebra I and Geometry, revisiting and expanding on their understanding of linear, absolute value, and exponential functions. In addition, quadratic, radical, logarithmic, and trigonometric functions are introduced. Students focus on exploring the connections between graphical representations and equations while they study transformations of various functions and apply their understanding of domain and range to explore asymptotes. Students also build onto their statistical foundation by looking at random sampling.

ALGEBRA II HONORS (S)**Course Code: 320/320K Credits: 1.0****C, K, W, WAMS, WCA**

Prerequisite: Grade of B or better in Geometry Honors or Geometry ACE or A in Geometry and departmental approval. The Honors level covers the same core skills as those in Algebra II but at a faster pace and with increased depth. In addition, students will extend their understanding of the number system to include complex numbers and explore how inequalities interact with systems and various functions including rational functions. Additional topics such as normal distribution and unit circles will be explored as time allows. (Includes ACE/ATOMS/SOAR Programs.)

TRIGONOMETRY /**Course Code: 393/393K Credits: 0.5****TRIGONOMETRY ACE * (S)****C, K, W, WAMS, WCA, SS**

Prerequisite: Successful completion of Algebra II. This is a one semester course for students who are interested in exploring the applications of trigonometry to the real world. After reinforcing understandings of right triangle trigonometry functions from Geometry, students extend their thinking to trigonometric functions, laws and applications.

STATISTICS / STATISTICS ACE (S)**Course Code: 394/394K Credits: 0.5****C, K, W, WAMS, WCA, E**

Prerequisite: Successful completion of Algebra II. This course provides for the collection, organization, classification, analysis, interpretation and presentation of significant data as a basis of the study of events. Using real data-based applications taken from a variety of sources, students will develop skills to comprehend problems that describe situations to which techniques and the mechanics may be applied. Extensive use of algebraic skills and the graphing calculator will be applied throughout the course.

**METHODS IN APPLIED
MATHEMATICS (S)
WCA****Course Code:****Credits: 1.0**

Prerequisite: Successful completion of Algebra II. This course will give students an opportunity to examine some of the key ways that mathematics affects their lives. Students will learn how to be better consumers of the statistics they are presented with on a daily basis, have an opportunity to develop their financial literacy skills in order to become more informed decision makers, and explore the ways that voting systems operate. The implications of these mathematical areas for equitable outcomes will be explored throughout the course and students will be given an opportunity to examine an issue of their choice to analyze through a mathematical lens.

**PRECALCULUS (S)
C, K, W, WAMS, WCA****Course Code: 371/371I****Credits: 1.0**

Prerequisite: Successful completion of Algebra II. This course is designed to provide a strong foundation of pre-calculus concepts, techniques, and applications to prepare students for more advanced work. It places appropriate emphasis on discrete mathematics and data analysis as the mathematical framework for many important contemporary applications. Units covered include polynomial, rational, exponential, logarithmic and inverse functions, graphs, and applications, trigonometry, and discrete mathematics. Extensive use of the graphing calculator will assist the student in a balanced approach to solving problems.

**PRECALCULUS HONORS (S)
C, K, W, WAMS, WCA****Course Code: 370/370K****Credits: 1.0**

Prerequisite: Grade of B or better in Algebra II Honors or Algebra II ACE or A in Algebra II. This course provides algebraic and graphical explorations of polynomial, rational, exponential, logarithmic, and inverse functions with real life applications in preparation for Calculus. In addition, trigonometric functions are studied as circular functions with applications to triangle problems. Topics include trigonometric identities, inverse trigonometric functions and oblique triangle trigonometry. Limits and sequences and series will be introduced if time permits. Extensive use of the graphing calculator will assist the student in a balanced approach to solving problems. (Includes ACE/ATOMS/SOAR Programs.)

**CALCULUS HONORS (S)
K, W, WAMS****Course Code: 380K****Credits: 1.0**

Prerequisite: B or better in Precalculus or departmental approval. This course serves to introduce students to the study of calculus. Students are exposed to several of the topics from the AP course including a study of functions, analysis of graphs, limits, continuity; derivatives at a point and of a function and applications and techniques of derivatives; and interpretations and properties of definite integrals, as well as applications of integrals; All topics are covered algebraically, geometrically, and analytically.

AP CALCULUS AB (S)**Course Code: 380A****Credits: 1.0****C, K, WAMS**

Prerequisite: B or better in Precalculus Honors or Precalculus ACE or Calculus and departmental approval. This course includes the in depth study of functions, analysis of graphs, limits, continuity; derivatives at a point and of a function, applications and techniques of derivatives including those of trig functions, and second derivatives; interpretations and properties of definite integrals, as well as applications of integrals; and related rates and optimization; All topics are covered algebraically, geometrically, and analytically. Students are expected to take the Advanced Placement examination in May.

AP CALCULUS BC (S)**Course Code: 380A****Credits: 1.0****K**

Prerequisite: Successful completion of Calculus AB AP. This course continues the study of Calculus begun in AP Calculus AB to the study of parametric, polar and vector functions; applications of integrals; polynomial approximations and series including the concepts of series, divergence versus convergence and types of series, series of constants, and Taylor/Maclaurin series. Students are expected to take the Advanced Placement examination in May.

AP STATISTICS (S)**Course Code: 392A****Credits: 1.0****WAMS**

Prerequisite: Successful completion of Algebra 2 Honors or ACE. This year-long course is equivalent to a one-semester college course in statistics. Students will be introduced to the major concepts for collecting, analyzing, and drawing conclusions from data. Topics also include sampling and experimentation. Students are expected to take the Advanced Placement examination in May.

ECE: ELEMENTARY CONCEPTS**Course Code: 391U****Credits: 1.0****OF STATISTICS * (S)****½ year course****C (Fall ONLY)**

Prerequisite: Successful completion of Algebra II; a Math score of 530 or higher on the SATs (recommended); and departmental approval. This semester-long college-level course for advanced learners takes a critical look at data: how can we organize, analyze and interpret data, how can we use data to make decisions, what role does randomness play in our decision making? Standard and nonparametric approaches to statistical analysis; exploratory data analysis, elementary probability, sampling distributions, estimation and hypothesis testing, one- and two-sample procedures, regression and correlation. Learning to do statistical analysis on a personal computer is an integral part of the course. *Though this course is only a half year, students earn 3 UCONN credits and therefore will earn a full high school credit for successful completion of the course.*

**ECE: ELEMENTARY DISCRETE
MATHEMATICS (S)
C, WCA (Spring Only)**

Course Code: 390U

**Credits: 1.0
½ year course**

Prerequisite: Successful completion of Algebra II required, Precalculus recommended; a Math score of 530 or higher on the SATs recommended; and departmental approval. This semester-long college-level course for advanced learners looks at Problem solving strategies, solutions of simultaneous linear equations, sequences, counting and probability, graph theory, deductive reasoning, the axiomatic method and finite geometries, number systems. *Though this course is only a half year, students earn 3 UCONN credits and therefore will earn a full high school credit for successful completion of the course.*

**ECE: CALCULUS I (S)
WCA (Fall Only)**

**Credits: 1.0
½ year course**

Prerequisite: Successful completion of Precalculus and departmental approval. Limits, continuity, differentiation of algebraic and transcendental functions, antidifferentiation, definite integrals, the Fundamental Theorem of Calculus, u-substitution, with applications to the physical and engineering sciences. *Though this course is only a half year, students earn 3 UCONN credits and therefore will earn a full high school credit for successful completion of the course.*

**ECE: ELEMENTARY CONCEPTS OF
STATISTICS / AP STATISTICS (S)
K**

Course Code: 394A

Credits: 1.0

Prerequisite: Successful completion of Algebra II and departmental approval. This year-long college-level course for advanced learners takes a critical look at data: how can we organize, analyze and interpret data, how can we use data to make decisions, what role does randomness play in our decision making? Standard and nonparametric approaches to statistical analysis; exploratory data analysis, elementary probability, sampling distributions, estimation and hypothesis testing, one- and two-sample procedures, regression and correlation. Learning to do statistical analysis on a personal computer is an integral part of the course. Students are expected to take the Advanced Placement examination in May.

**SAT PREP - MATH * (S)
C, K, W, WAMS, WCA**

Course Code: 373

Credits: 0.5

This is a half-year course that reviews test-taking strategies and problem solving techniques, and encourages both long-term and short-term preparation for the SAT and other standardized assessments. Tips on improving computational and reasoning skills are included. Practice sessions guide students to a better understanding of the problems that commonly appear on the SAT and related tests. The graphing calculator is used throughout the course.

Science Department

Mrs. Kari Nizzardo, Supervisor of K-12 Science

Why take science?

Science allows students to explore the natural world around them and the world within themselves. At the large scale students examine the universe and its stars, our solar system, and planet earth with its diverse ecosystems and life forms. At the micro scale they learn about cells, bacteria and viruses, and even molecules, atoms, and subatomic particles such as gluons and quarks.

A New Way of Learning Science

Connecticut has adopted the Next Generation Science Standards (NGSS), which emphasize student discovery, developing models to explain real world phenomena, and finding engineering solutions to real world problems. In the core science courses –integrated earth and physical science, biology, chemistry, and physics - Waterbury has adopted NGSS-aligned curricula that require students to think for themselves and apply science knowledge, rather than just memorize facts. Our forensics course will soon be NGSS-aligned as well.

What science courses should students take?

High school students in Waterbury are strongly encouraged to take three science courses. The ideal course sequence for college-bound students is integrated earth and physical science followed by biology and chemistry. Students opting for a fourth science would take physics, human biology, or one of the AP/ECE courses – AP/ECE Biology, ECE Chemistry, AP Physics, and AP Environmental Science.

Advanced students may begin with Biology in 9th grade, followed by Chemistry and Physics. They can elect to take two science classes in any year, and will be able to take AP or UCONN ECE classes in their junior and senior years.

Course Sequence

Grade 9	Grade 10	Grade 11	Grade 12
Integrated Earth and Physical Science -OR- Biology AND Integrated Earth and Physical Science	Biology -and/or- Chemistry (With option of second science: AP Biology, ECE Principles of Biology, AP Environmental Science)	Chemistry -or- Physics -or- Environmental (With the option of second science: AP Biology, ECE Principles of Biology, ECE General Chemistry, ECE Environmental Science, or other approved science elective)	Optional Elective Course (STEM)- Physics or any approved elective

H: Humanities • S: STEM • WL: World Languages • PW: Physical Wellness

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Science Core Program Course Descriptions

INTEGRATED EARTH AND PHYSICAL SCIENCE (S)

Course Code: 431**Credits: 1.0****C, K, W, WAMS, WCA, E, SS**

Students will discover chemical and physical properties of everything through the lens of earth and space science. The theory of the Big Bang will explain how all matter was created, and how atoms in our bodies and all around us were formed billions of years ago in exploding stars. Students will explore the formation of the earth and moon, and the movement of continents riding on tectonic plates. They will also investigate the biggest scientific issue of our time – climate change - and separate natural influences from the impact of burning of fossil fuels.

INTEGRATED EARTH AND PHYSICAL SCIENCE HONORS (S)

Course Code: 430/430K Credits: 1.0**C, K, W, WAMS, WCA**

Prerequisite: Teacher Recommendation. Designed for the high achieving student, this NGSS-aligned course uses the lens of earth and space science to investigate chemical and physical phenomena. The theory of the Big Bang will explain how all matter was created, and how atoms in our bodies and all around us were formed in exploding stars billions of years ago. Students will explore the formation of the earth and moon, and the movement of continents riding on tectonic plates. They will also investigate the biggest scientific issue of our time – climate change - and separate natural influences from the impact of burning of fossil fuels. (Includes ACE/ATOMS/SOAR).

BIOLOGY (S)

Course Code: 401**Credits: 1.0****C, K, W, WAMS, WCA, E, SS**

Biology examines the basis for life including genetics, cellular function, and biochemistry. Scientific skills are developed including prediction, data collection, analysis, and reasoning. Biology is NGSS-aligned and emphasizes student-centered problem solving, engineering solutions to problems, and explaining real life phenomena. Phenomena include how life returns after a forest fire, and how to survive a dying earth. Genetics will be explored by studying how twins can look totally different and through investigating “What makes me, me” - the genetic and environmental factors that make each person a unique human being. The course is geared to the college-bound student. The embedded labs focus on scientific investigation and processes.

BIOLOGY HONORS (S)**Course Code: 401/401K Credits: 1.0****C, K, W, WAMS, WCA**

Prerequisite: Teacher Recommendation. This NGSS-aligned, laboratory course is designed for the high achieving student. The curriculum emphasizes the cellular level of life forms, as well as heredity and evolution. Natural phenomena are explored in depth and scientific knowledge applied to solve real world problems. Phenomena include how adaptations allow an antelope to escape cheetahs, the fastest animal on earth. Genetics will be explored by studying how twins can look totally different, and through investigating “What makes me, me” - the genetic and environmental factors that make each person a unique human being. The course is oriented toward laboratory investigation, the use of technology, and the development of higher level thinking skills. (Includes ACE/ATOMS/SOAR).

ECE: PRINCIPLES OF BIOLOGY (S)**Course Code: 400U****Credits: 1.0****C, WCA**

Prerequisite: Biology and Teacher Recommendation. This course is aligned with the UCONN Storrs Biology department. Students will embark on a journey through what it means to be living, from a molecular level to the form and function of animal bodies. In this course, students can expect lecture, reading & note-taking, independent and group projects, presentations to peers and intensive lab work. This fast-paced and rigorous course will give students the opportunity to earn 4 college credits by passing full length college tests and labs sent directly from the UConn Storrs Biology Department.

AP BIOLOGY (S)**Course Code: 400A****Credits: 1.0****K, W, WAMS**

Prerequisite: Biology Teacher Recommendation. This laboratory course provides a thorough and advanced study of biological principles and concepts at the college freshman level. Students must be highly motivated and competent in scientific experimentation and research. Availability of this and other AP courses in a given year depends on student enrollment. Students are required to take the AP exam.

CHEMISTRY (S)**Course Code: 421****Credits: 1.0****C, K, W, WAMS, WCA**

Prerequisite: Algebra I. Chemistry is an NGSS-aligned, laboratory course that explores the structure of elements, compounds, and mixtures, and the chemical reactions they undergo. Emphasis is placed on chemical theories that are substantiated by experimentation in the laboratory. Students use their chemistry knowledge to solve problems in the real world, and develop explanations for chemistry phenomena. Hands-on lab activities and demonstrations are used to show applications of chemistry to everyday life.

CHEMISTRY HONORS (S)**Course Code: 420/420K Credits: 1.0****C, K, W, WAMS, WCA**

Prerequisite: Teacher Recommendation. Designed for the high achieving student, this NGSS-aligned, laboratory course explores a wide range of chemistry topics, including atomic structure, periodicity, chemical reactions, gas laws, and stoichiometry. Emphasis is on problem-solving and laboratory inquiry. Students apply chemistry knowledge to develop models, explain real world phenomena, and create engineering solutions to real world problems. (Includes ACE/ATOMS/SOAR).

CHEMISTRY AP (S)**Course Code: 420U****Credits: 1.0****W**

Prerequisite: Chemistry and Teacher Recommendation. AP Chemistry is for high achieving students interested in exploring chemistry concepts in greater depth and complexity. These concepts include the structure and states of matter, intermolecular forces and reactions. Students will work in groups to think analytically about problems, identify experimental questions, and design experiments to answer those questions. This course includes embedded AP-laboratory activities. Availability of this and other AP courses in a given year depends on student enrollment.

ECE: GENERAL CHEMISTRY I (S)**Course Code: 420U****Credits: 1.0****WCA****½ year course**

Prerequisite: Chemistry and Teacher Recommendation. Students Must Have Taken or Be Taking Pre-Calculus. Designed to provide a foundation for more advanced courses in chemistry. Atomic theory, laws and theories concerning the physical and chemical behavior of gases, liquids, solids, and solutions. Properties of some of the more familiar elements and their compounds. Quantitative measurements illustrating the laws of chemical combination in the first semester lab. This fast-paced and rigorous course will give students the opportunity to earn 4 college credits by passing full-length college tests and labs sent directly from the UConn Storrs Chemistry Department. *Though this course is only a half year, students earn 4 UCONN credits and therefore will earn a full high school credit for successful completion of the course.*

ECE: GENERAL CHEMISTRY II (S)**Course Code: 421U****Credits: 1.0****WCA****½ year course**

Prerequisite: Successful completion of Chemistry I UCONN with a grade "C" or better. Designed to provide a foundation for more advanced courses in chemistry. Atomic theory, laws and theories concerning the physical and chemical behavior of gases, liquids, solids, and solutions. Properties of some of the more familiar elements and their compounds. Equilibrium in solutions and qualitative reactions of the common cations and anions in the second semester lab. This fast-paced and rigorous course will give students the opportunity to earn an additional 4 college credits by passing full-length college tests and labs sent directly from the UConn Storrs Chemistry Department. *Though this course is only a half year, students earn 4 UCONN credits and therefore will earn a full high school credit for successful completion of the course.*

PHYSICS (S)**Course Code: 451****Credits: 1.0****C, K, W, WAMS, WCA**

Physics is an NGSS-aligned, laboratory course that presents a quantitative treatment of energy, mechanics, light, sound, electricity, and magnetism. In each area, quantitative problem-solving, explanation of phenomena, and engineering solutions to real life problems are emphasized. While a prerequisite for college and most technical careers, it is also geared to meet the needs of the general students. The embedded labs focus on scientific investigation and processes.

PHYSICS HONORS (S)**Course Code: 450/450K Credits: 1.0****C, K, W, WAMS, WCA**

Prerequisite: Teacher Recommendation. This NGSS-aligned, laboratory course is for students capable of moving at a fast pace and exploring concepts in-depth. The student should possess well-developed analytic and quantitative skills. Topics include motion, thermal energy, electricity, sound, and magnetism. In each area, quantitative problem-solving, explanation of phenomena, and engineering solutions to real life problems are emphasized. The embedded labs focus on scientific investigation and processes. (Includes ACE/ATOMS/SOAR).

ECE: GENERAL PHYSICS I (S)**Course Code: 450U****Credits: 1.0****C, W**

Prerequisite: Physics and Teacher Recommendation. Students Must Have Taken or Be Taking Pre-Calculus. This course is aligned with the UCONN Storrs Physics Department. Students will experience rigorous quantitative physics including mechanics, thermodynamics, sound waves, light waves, electricity, sound, and magnetism. In each area, students can expect lecture, reading and note-taking, independent and group projects, presentations to peers and intensive lab work. Students will have the opportunity to earn 4 college credits by passing full length college tests and labs sent directly from the UConn Storrs Science Department. *Though this course is only a half year, students earn 4 UCONN credits and therefore will earn a full high school credit for successful completion of the course.*

HUMAN BIOLOGY**Course Code: 411/411K****Credits: 1.0****HUMAN BIOLOGY WITH CPR/1ST AID (S)****411B****C, K, WAMS, WCA, E**

Prerequisite: Biology and Chemistry. An introduction and survey of human anatomy and function including the digestive, circulatory, respiratory, immune, urinary, nervous, sensory, muscular, skeletal, endocrine, and reproduction systems of the body. Embedded lab activities feature dissections of animal organs/systems, internet research, and lab simulations. Alternate laboratory assignments are available for students who elect not to dissect animal organs/systems. (411B integrates CPR/1st Aid course. Students will have an opportunity to obtain certification in both.)

FORENSICS (S)**Course Code: 446****Credits: 1.0****C, K, W, WCA, SS**

Forensics is a full year course offering a hands-on, problem-solving approach to crime scene investigation. The course provides a broad survey of techniques used to distinguish and categorize the physical and chemical evidence found at a crime scene. Activities include crime scene sketching and analysis of fingerprints, handwriting, impressions, and DNA.

ZOOLOGY (S)**Course Code: 459****Credits: 1.0****K, WAMS. SS (offered every other year)**

Prerequisite: Biology. This full year course is oriented toward students who enjoy biology and hands-on investigation. It examines the anatomy and physiology of invertebrates and vertebrates, from both the ocean and land. Students will investigate invertebrates such as protozoans, sponges, jellyfish, mollusks, echinoderms and arthropods. On the vertebrate side, students will learn about cold-blooded and warm-blooded animals from bony fish to mammals. Activities include microscopic examination, lab simulations and dissections. Alternate laboratory assignments are provided for students who elect not to dissect invertebrates.

ENVIRONMENTAL SCIENCE (S)**Course Code: 445****Credits: 1.0****C, K, W, WAMS, E, SS**

This full year course is an exploration of scientific principles underlying today's environmental issues. The earth's geologic history, oceans, atmosphere, soils, biomes including rainforests and human population are studied. The course also examines the science behind pollution, climate change, and energy consumption. Outdoor and hands-on activities will be emphasized. The course perspective will be political and social, as well as scientific.

ECE: ENVIRONMENTAL SCIENCE (S)**Course Code: 445U****Credits: 1.0****C, K, WAMS**

Prerequisite: Teacher Recommendation & successful completion of two years of high school science. An introduction to basic concepts and areas of environmental concern and how these problems can be effectively addressed. Topics include human population; ecological principles; conservation of biological resources; biodiversity; croplands, rangelands, forestlands; soil and water conservation; pollution and water management; and wildlife and fisheries conservation. Students will have the opportunity to earn 3 college credits by passing full length college tests sent directly from the UConn Storrs Science Department.

MARINE BIOLOGY (S)**Course Code: 480****Credits: 1.0****K, SS**

Prerequisite: Biology This course introduces students to marine invertebrate organisms. Students will investigate the evolutionary relationships and ecology of these organisms. Physiology, cell biology, embryology, and behavior are also examined. Students will gain an appreciation of the tremendous diversity in form and function of these fascinating organisms.

Social Studies Department

Mrs. Veda Harris, Supervisor of K-12 Social Studies

The Social Studies Program provides students with the skills and knowledge for a better understanding of history, geography, economics, politics and civic participation. More so than ever, students need a strong social studies education where they are asked to tackle tough and relevant problems that impact our daily life. They will also learn and apply problem solving and critical analysis skills needed to make informed decisions and become global citizens. Teaching our students early on to understand and participate effectively in a diverse world will prepare them to be engaged in democratic activities that help improve lives and serve a common good.

Course Sequence

*Civics and U.S. History must be included in a student's course sequence.

Grade 9	Grade 10
Modern World History Honors Modern World History AP Modern World	Civics* Honors Civics* US II Honors US II AP European History AP World History
Grade 11	Grade 12
US History III* Honors US History III* AP US History ECE: Seminar in American Studies*	African American/Black /Latino/Puerto Rican Studies AP Human Geography AP US Government and Politics AP Comparative Governments AP Psychology ECE: Introduction to Human Rights / Introduction to Genocide ECE: Introduction to Sociology ECE: Introduction to American Politics ECE: Modern Western Traditions ECE: Western Traditions Before 1500 ECE: US History Since 1877 Law and Society (0.5) Contemporary Issues (0.5) Psychology (0.5) Sociology (0.5) Comparative Government Systems (0.5) Geography (0.5) Comparative Religions (0.5)

H: Humanities • S: STEM • WL: World Languages • PW: Physical Wellness

C: Crosby • K: Kennedy • W: Wilby • WAMS: Waterbury Arts Magnet • WCA: Career Academy • SS: State Street • E: Enlightenment

Social Studies Core Program Course Descriptions

MODERN WORLD HISTORY (H) **Course** **Code: Credits: 1.0** **Grade 9**
C, K, W, WAMS, WCA, E, SS **570/570A/571**

This course will focus on the 19th and 20th century beginning with the philosophical roots of economic and political conflict of the late 18th century. This will explore the impact of democratic and industrial revolutions, the wars that changed empires and the European dominance of the world, as well as, the ideas that lead to independence movements and the effects of global interdependence. Students in this course will continue to develop their historical thinking skills from previous years by emphasizing such skill areas as argumentative writing, oral communication, and evaluation of primary and secondary sources, map analysis, research techniques, and critical thinking dispositions.

CIVICS * (H) **Course Code: 530/531** **Credits: 0.5** **Grade 10**
C, K, W, WAMS, WCA, E, SS

This course will cover the development of democratic within the context of the United States government and the role of citizens within that government. It will prepare students to participate in their political responsibilities as thoughtful and informed citizens. Civics provides a basis for understanding the rights and responsibilities for being an American citizen and a framework for competent and responsible participation within society. Emphasis is placed on the historical development of government and political systems, and the importance of the rule of law; the United States Constitution; Federal, State and local government structure; and the rights and responsibilities of citizenship. Students will actively investigate local, state and national issues, actively negotiate discussions, and develop informed arguments using a variety of writing forms. *Pairs with 540/541

US HISTORY II * (H) **Course Code: 540/541** **Credits: 0.5** **Grade 10**
C, K, W, WAMS, WCA, E, SS

This course will take an in-depth look at the domestic and foreign policies that divided the United States leading it from Civil War to a newly industrialized nation. Students will analyze primary and secondary sources in order to interpret historical viewpoints, research important people and events in an effort to determine their significance, and evaluate the government's failures and success based on legislation and executive orders from the time. *Pairs with 530/531.

US HISTORY III (H) **Course Code: 550/551** **Credits: 1.0** **Grade 11**
C, K, W, WAMS, WCA, E, SS

U.S. History III is a mandatory course for all juniors. The course begins with the American Progressive Era and leads up to the present day. Topics will cover the social, cultural, political, military, and economic transformations of nineteenth century America. Typical course activities include analyzing primary and secondary sources, class debates, research into historical events of significance, and creation of argumentative writings.

H: Humanities • S: STEM • WL: World Languages • PW: Physical Wellness

C: Crosby • K: Kennedy • W: Wilby • WAMS: Waterbury Arts Magnet • WCA: Career Academy • SS: State Street • E: Enlightenment

Social Studies Elective Course Descriptions

ECE: SEMINAR IN

Course Code: 550U**Credits: 1.0****Grades 11**

AMERICAN STUDIES(H)

K

Seminar in American Studies is a team taught, full year course that takes an interdisciplinary approach to the study of American culture. The course rests on two main pillars, the study of United States History and American Literature. The course also integrates art, architecture, and music to help the student develop a total picture of the American Experience. The course offers a variety of teaching strategies and learning activities. Students in Seminar in American Studies are assigned a double class period. After successful completion of the course, the student will have fulfilled the United States History requirement and the junior year American Literature requirement. In addition, students electing the course are eligible to receive credit in history under the UCONN Co-Op program if all requirements are met.

AP U.S. History (H)

Course Code: 550A**Credits: 1.0****Grades 11-12****K, W, WAMS, WCA**

The history of the Ancient Mediterranean and Near East and Medieval Europe, from the era of the Agricultural Revolution c. 10,000 BCE to c. 1500 CE. As an introductory history course, this course is designed to develop not only specific knowledge of history of the period in question, but also to refine skills in dealing with history and to impart a recognition that every member of a society (including yourself) helps to 'make' history. In addition, students shall discover that there is not one, but a multitude of roots to western culture, from the everyday life of peasant women to powerful thinkers, politicians and aristocrats of the times. College credits (3) are awarded to students who successfully pass the Advanced Placement Examination which they are required to take in May.

AP EUROPEAN HISTORY (H)

Course Code: 580A**Credits: 1.0****Grades 10-12****K, WAMS**

The study of European history since 1450 introduces students to cultural, economic, political, and social developments that played a fundamental role in shaping the world in which they live. Without this knowledge, we would lack the context for understanding the development of contemporary institutions, the role of continuity and change in present-day society and politics, and the evolution of current forms of artistic expression and intellectual discourse. In addition to providing a basic narrative of events and movements, the goals of the AP program in European History are to develop (a) an understanding of some of the principal themes in modern European History, (b) an ability to analyze historical evidence and historical interpretation, and (c) an ability to express historical understanding in writing. College credits (3) are awarded to students who successfully pass the Advanced Placement Examination which they are required to take in May.

**AP MODERN WORLD HISTORY (H) Course Code: 570A Credits: 1.0 Grades 9-12
C, WAMS, WCA, W**

The AP Modern European History course deals with the facts, ideas, events and personalities which have shaped Europe's history from approximately 1450 to the present. The journey through Europe's rich and diverse history takes the student from the tragedy of the Bubonic plague at the end of the Medieval Period to the establishment of contemporary Europe. Units of study will include the Renaissance and Reformation, the age of Absolutism, the Scientific Revolution and the Enlightenment, the French Revolution and Napoleonic Europe, the rise of political ideologies, the Revolutions of 1848 leading to the emergence of nation states, the Age of Industrial and International expansion, the World Wars, the Cold War, and current issues. College credits (3) are awarded to students who successfully pass the Advanced Placement Examination which they are required to take in May.

**ECE: WESTERN TRADITIONS Course Code: 501U Credits: 1.0 Grades 12
BEFORE 1500 (H) ½ year course
C (Fall Only)**

The history of the Ancient Mediterranean and Near East and Medieval Europe, from the era of the Agricultural Revolution c. 10,000 BCE to c. 1500 CE. As an introductory history course, this course is designed to develop not only specific knowledge of history of the period in question, but also to refine skills in dealing with history and to impart a recognition that every member of a society (including yourself) helps to 'make' history. In addition, students shall discover that there is not one, but a multitude of roots to western culture, from the everyday life of peasant women to powerful thinkers, politicians and aristocrats of the times. In addition, students electing the course are eligible to receive credit in history under the UCONN Co-Op program if all requirements are met. *Though this course is only a half year, students earn 3 UCONN credits and therefore will earn a full high school credit for successful completion of the course.*

**ECE: MODERN WESTERN Course Code: 500U Credits: 1.0 Grades 12
TRADITIONS (H) ½ year course
C, WCA (Spring Only)**

The study of European history since 1450 introduces students to cultural, economic, political, and social developments that played a fundamental role in shaping the world in which they live. Without this knowledge, we would lack the context for understanding the development of contemporary institutions, the role of continuity and change in present-day society and politics, and the evolution of current forms of artistic expression and intellectual discourse. In addition to providing a basic narrative of events and movements, the goals of the AP program in European History are to develop (a) an understanding of some of the principal themes in modern European History, (b) an ability to analyze historical evidence and historical interpretation, and (c) an ability to express historical understanding in writing. In addition, students electing the course are eligible to receive credit in history under the UCONN Co-Op program if all requirements are met. *Though this course is only a half year, students earn 3 UCONN credits and therefore will earn a full high school credit for successful completion of the course.*

AP PSYCHOLOGY (H) **Course Code: 544A** **Credits: 1.0** **Grades 10-12**
C, K, W, WAMS, WCA

The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. College credits (3) are awarded to students who successfully pass the Advanced Placement Examination which they are required to take in May.

PSYCHOLOGY * (H) **Course Code: 546** **Credits: 0.5** **Grades 10-12**
C, K, W, WAMS, WCA, E, SS

This course is designed to develop student interest in human behavioral patterns by learning fundamentals of psychological study. Further development of concentrated study will include the understanding of personality traits, the role of heredity and environment and their consequences on the intelligent world community.

SOCIOLOGY (H) **Course Code: 545** **Credits: 0.5** **Grades 12**
C, K, W, WAMS, WCA, SS

This course provides insights into human relations by incorporating characteristics that are common to groups, races, and cultures. Emphasis is on the problems approach and attempts are made to reduce narrow-mindedness and prejudice by promoting better understanding of inter-group relations.

ECE: INTRODUCTION TO SOCIOLOGY (H) **Course Code: 545U** **Credits: 1.0** **Grades 11-12**
C

This course provides insights into human relations by incorporating characteristics that are common to groups, races, and cultures. Emphasis is on the problems approach and attempts are made to reduce narrow-mindedness and prejudice by promoting better understanding of inter-group relations. In addition, students electing the course are eligible to receive credit in history under the UCONN Co-Op program if all requirements are met. *Though this course is only a half year, students earn 3 UCONN credits and therefore will earn a full high school credit for successful completion of the course.*

COMPARATIVE GOVERNMENT (H) **Course Code: 504** **Credits: 0.5** **Grades 11-12**
C, K, W, E, SS

Emphasis is placed on the structure of the local, state and national governments, the goals of democratic society, and the prime role of the good citizen in an era of challenge. To appreciate the government of the United States, comparisons are made with selected major political systems throughout the world.

**AP COMPARATIVE GOVERNMENT
AND POLITICS (H)****Course Code: 591A****Credits: 1.0****Grades 11-12****K**

This course introduces students to fundamental concepts used by political scientists to study the processes and outcomes of politics in a variety of country settings. The course aims to illustrate the rich diversity of political life, to show available institutional alternatives, to explain differences in processes and policy outcomes, and to communicate to students the importance of global political and economic changes. In addition to covering the major concepts that are used to organize and interpret what we know about political phenomena and relationships, the course covers six specific countries and their governments. College credit can be earned by students who successfully pass the Advanced Placement Examination which they are required to take in May.

**AP US GOVERNMENT
AND POLITICS (H)****Course Code: 530A****Credits: 1.0****Grades 9-12****K, WAMS, WCA, W**

This course provides an analytical perspective on government and politics in the United States. This course involves both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. political reality. In addition to providing an analytical perspective on government in the United States, this course focuses on the six major categories assessed on the U.S. Government and Politics' AP exam. These categories include: The Constitutional Underpinnings of United States Government, Political Beliefs and Behaviors, Political Parties, Interest Groups and Mass Media, Institutions of National Government: The Congress, the Presidency, the Bureaucracy, and the Federal Courts, Public Policy and Civil Rights and Civil Liberties. College credit can be earned by students who successfully pass the Advanced Placement Examination which they are required to take in May.

GEOGRAPHY * (H)**Course Code: 505****Credits: 0.5****Grades 10-12****C, K, W, SS**

Geography introduces students to the environmental factors that have so greatly influenced man. Studies are made on a regional basis and include a systematic approach to the physical, economic and cultural changes which help man satisfy his needs.

CONTEMPORARY ISSUES * (H)**Course Code: 521****Credits: 0.5****Grades 11-12****C, K, W, WAMS, WCA, E, SS**

Through discussion, this course focuses on the long-range problems of society as well as controversial issues of the day. Opportunity for understanding current affairs is also provided. Students will be encouraged to pursue individual topics of interest.

LAW & SOCIETY * (H) C, K, W, WAMS, WCA, E, SS	Course Code: 521	Credits: 0.5	Grades 11-12
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This course stresses the importance of law in our society to better enable the student to function as a citizen. An overview of the Anglo-American Legal System, the development and growth of the U. S. Constitution, and the salient features of American Criminal and Civil Laws are presented in this course.

ECE: INTRO TO HUMAN RIGHTS (H) C (Fall Only)	Course Code: 502U	Credits: 1.0 ½ year course	Grade 12
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Recommendation In recent years, “human rights” has become among the most powerful ways of thinking about and fighting for a more just world. This course provides an introduction to the interdisciplinary study of human rights as a concept, a set of laws and institutions, and as a set of political and cultural practices. We begin by considering definitions, historical and institutional foundations of human rights. We then focus on several particular human rights issues, groups of human rights and human rights of certain groups of people. Along the way, we will take different disciplinary approaches – legal, philosophical, literary, etc. – to our subject. By the end of the class, we will have developed an understanding of the institutions and processes related to human rights and familiarity with key intellectual debates as well as differing policy and advocacy strategies. . In addition, students electing the course are eligible to receive credit in history under the UCONN Co-Op program if all requirements are met. Must take with 503U. *Though this course is only a half year, students earn 3 UCONN credits and therefore will earn a full high school credit for successful completion of the course.*

ECE: INTRODUCTION TO GENOCIDE STUDIES (H) C (Spring Only)	Course Code: 503U	Credits: 1.0 ½ year course	Grade 12
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Introduction to Genocide Studies is an interdisciplinary will look at the origins of Genocide and various Genocides around the world through a critical, interdisciplinary and practical and applied approaches. Students will look at ways to address the different viewpoints of power along with legal and political definitions. Different approaches will be reflected upon when looking through the eyes and thoughts of those who have tried to understand genocide without taking the act for granted. Finally, the course is fundamentally anti-genocidal in its purpose, and students will have the opportunity to contribute to and/or develop practical efforts commemorate, advocate against, or prevent the perpetration of genocide. In addition, students electing the course are eligible to receive credit in history under the UCONN Co-Op program if all requirements are met. Must take with 502U. *Though this course is only a half year, students earn 3 UCONN credits and therefore will earn a full high school credit for successful completion of the course.*

**AFRICAN AMERICAN / BLACK AND
PUERTO RICAN / LATINO STUDIES (H)** **Course Code: 586** **Credits: 1.0** **Grades 11-12**
C, K, W, WAMS, WCA, SS

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.

ECE: US HISTORY SINCE 1877 (H) **Course Code: 586U** **Credits: 1.0** **Grade 10**
C **½ year course**

This challenging college level course is an overview of United States history from the end of the Reconstruction Era (1877) to the present. This course will emphasize both historical content and examine the ways that professional historians learn about, interpret, and explain America's past. Successful completion of this course will meet the U.S. history requirement for graduation and may be eligible for UConn credit. To enroll in this course, a teacher recommendation by each student's current social studies teacher is required. Summer Assignments may be required. In addition, students electing the course are eligible to receive credit in history under the UCONN Co-Op program if all requirements are met. *Though this course is only a half year, students earn 3 UCONN credits and therefore will earn a full high school credit for successful completion of the course.*

COMPARATIVE RELIGION (H) **Course Code: 501** **Credits: .5** **Grade 11-12**
WAMS

World Religion is a course whose principal aim is to provide the student with the opportunities to compare various religions, their origins, similarities and differences in their development in terms of structure, pattern of thought and worship. There is to be a true understanding of the main faiths of the earth and chronology of past events as related to the human experience.

World Languages Department

World Languages are taught according to the citywide curriculum guide for modern world languages. Students have an opportunity to study a world language commencing in Grade 9 and continuing through a four-year sequence. The primary emphasis is the development of the basic skills of listening, speaking, reading and writing. With the exception of the first year, each year has as its prerequisite the completion of the previous year.

The World Languages program has two phases and four levels of competency. The first two years of study represent the initial phase with an audio-lingual emphasis. The last two years represent the intermediate phase with a reading and writing emphasis. The number of levels completed depends on the interest and competency of the student.

All courses are planned to develop the students' ability to use the language of their choice as a means of oral and written communication and to increase their understanding of the people whose language they are studying. All courses follow an appropriate sequence to develop the language skills.

World Language Program Course Descriptions

SPANISH 1 (WL) **Course Code: 250/251** **Credits: 1.0** **Grade 9-12**

C, K, W, WAMS, WCA, E, SS

The student gains a working command of basic speech patterns, vocabulary, and comprehension through the learning of everyday idioms. The emphasis is on listening, speaking, reading, and writing. Interest is stimulated through independent and group projects and an introduction to Spanish and Hispanic history and civilization. (Also offered at the SOAR level at Kennedy High School.)

SPANISH 2 (WL) **Course Code: 260/261** **Credits: 1.0** **Grade 10-12**

C, K, W, WAMS, WCA

Prerequisite: Spanish 1. Attention is given to the four fundamental language skills: listening, speaking, reading, and writing. The study of Spanish and Hispanic geography, history, literature, culture, and civilization is also emphasized. It also includes the discussion of culture of the geographical areas where Spanish is spoken. (WAMS students can enter Spanish 2 as 9th graders if they score a minimum of 85 in the placement test administered in May of 8th grade.) (Also offered at the SOAR level at Kennedy High School and the honors level at WAMS.)

SPANISH 3 (WL) **Course Code: 274/275** **Credits: 1.0** **Grade 11-12**

C, K, W, WAMS, WCA

Prerequisite: Spanish 2. This course includes the review of grammar through graded compositions with emphasis on oral proficiency and on comprehension through extensive reading, individual projects directed toward reading proficiency and vocabulary growth. Continued interest in culture and civilization is stressed. (Also offered at the SOAR level at Kennedy High School and the honors level at WAMS.)

SPANISH 4 (WL) **Course Code: 274/275** **Credits: 1.0** **Grade 11-12**

C, K, W, WAMS, WCA

Prerequisite: Spanish 3 and Instructor. This course includes extensive reading in class, outside assignments of selected classics and advanced composition writing using stylistic analysis of texts of note. Spanish authors are emphasized. (Also offered at the SOAR level at Kennedy High School and the honors level at WAMS.)

**AP SPANISH LANGUAGE
AND CULTURE (WL)
C, K, W, WAMS**

Course Code: 285A

Credits: 1.0

Grade 12

Recommended Prerequisites: Successful completions of Spanish levels 1-3 and permission from the Department Chair and Course Instructor. A. P. Spanish explores the prose, poetry and drama of the great Spanish authors from the Golden Age to the Modern Age. Particular emphasis is placed on literary criticism and oral expression in the language. The course is specifically designed to prepare students for college study of Spanish. College credits are awarded to students who successfully pass the Advanced Placement Spanish examination given in May by the College Board. College credits (3) are awarded to students who successfully pass the Advanced Placement Examination which they are required to take in May.

**ITALIAN 1 (WL)
C, K**

Course Code: 211

Credits: 1.0

Grade 9-12

This course offers the basic elements of grammar, pronunciation, and simple conversation with reading and writing; practice in easy conversation with emphasis on oral repetition; drill in pronunciation and development of a basic vocabulary; introduction to essential construction and patterns. Cultural aspects of Italian are also studied. (Also offered at the SOAR level at Kennedy High School.)

**ITALIAN 2 (WL)
C, K**

Course Code: 221

Credits: 1.0

Grade 10-12

Prerequisite: Italian 1 Students concentrate on the study of grammar, pronunciation, and basic speech patterns. Attention is given to the four fundamental language skills: listening, speaking, reading, and writing. The study of Italian geography, history, literature, culture, and civilization is also emphasized. (Also offered at the SOAR level at Kennedy High School.)

**ITALIAN 3 (WL)
C, K, WAMS**

Course Code: 235

Credits: 1.0

Grade 11-12

Prerequisite: Italian 2 The third year student continues to develop the four fundamental skills approach integrated with a thorough review of the essential grammar; intensive practice in aural comprehension and speech patterns; more reading and composition. Continued interest in culture and civilization is stressed. (Also offered at the SOAR level at Kennedy High School.)

**ECE: ITALIAN COMPOSITION &
CONVERSATION 1 (WL)
K**

Course Code: 245

Credits: 1.0

Grade 12

Prerequisite: Italian 3 and permission of the Department Chair/UCONN Instructor. With stress on comprehension, the student is now involved with more advanced reading and more practice in writing. Knowledge of Italian writers, artists, musicians, scientists and historical personages is encouraged through research projects.

**SPANISH FOR NATIVE
SPEAKERS 1 (WL)
C, K, W****Course Code: 251N****Credits: 1.0****Grades 9- 12**

Prerequisite: Ability to understand and speak Spanish at native or near native speaker fluency. The Spanish for Native Speakers 1 course is designed for Spanish speaking Bilingual students. Students will develop a deeper understanding of the ELA 9-12 Connecticut Core Standards through a Spanish Language Arts Curriculum. The curriculum consists of four units of study. Each unit of study builds on the previous one to ensure that students have acquired the prerequisite skills to move onto the next level of learning. The curriculum units are created to ensure skill practice in reading, writing, researching, listening, and speaking in their first language. Students will build familiarity with the anchor standards, literature, the mechanics and structure of academic writing in order to prepare for the next level. Students will engage in critical analysis of fictional literature and informational texts with a focus on developing vocabulary and reasoning skills. Key literature studied during the course include “Don Quijote de la Mancha” by Miguel Cervantes Saavedra, selected fiction, selected non-fiction, and poetry. Using the Common Underlying Proficiency approach, which promotes cross-linguistic transfer, concepts learned in Spanish will then be applied in mainstream English classes, providing Bilingual students the opportunity for success.

**SPANISH FOR NATIVE
SPEAKERS 2 (WL)
C, K, W****Course Code: 252N****Credits: 1.0****Grade9- 12**

Prerequisite: Successful completions of Spanish for Native Speakers 1. The Spanish for Native Speakers 2 is designed for Spanish speaking Bilingual students. Students will develop a deeper understanding of the ELA 9-12 Connecticut Core Standards through a Spanish Language Arts Curriculum. The curriculum consists of four units of study. Each unit of study builds on the previous one to ensure that students have acquired the prerequisite skills to move onto the next level of learning. The curriculum units are carefully designed to ensure skill practice in reading, writing, researching, listening, and speaking in their first language. Students will build familiarity with the anchor standards, literature, the mechanics and structure of academic writing in order to prepare for the next level. Students will also engage in critical analysis of fictional literature and informational texts with a focus on developing vocabulary and reasoning skills. Key literature studied during the course include “La Celestina” by Fernando de Rojas, selected fiction, selected non-fiction, and poetry. Using the Common Underlying Proficiency approach, which promotes cross-linguistic transfer, concepts learned in Spanish will then be applied in mainstream English classes, providing Bilingual students the opportunity for success.

SPANISH FOR NATIVE SPEAKERS III**Course Code: 431****Credits: 1.0****C, K, W**

Prerequisite: Successful completions of Spanish for Native Speakers II. Spanish for Native Speakers 3 is designed for Spanish speaking Bilingual students. Students will develop a deeper understanding of the ELA 9-12 Connecticut Core Standards through a Spanish Language Arts Curriculum. The curriculum consists of four units of study. Each unit of study builds on the previous one to ensure that students have acquired the prerequisite skills to move onto the next level of learning. The curriculum units are carefully designed to ensure skill practice in reading, writing, researching, listening, and speaking in their first language. Students will build familiarity with the anchor standards, literature, the mechanics and structure of academic writing in order to prepare for the next level. Students will also engage in critical analysis of fictional literature and informational texts with a focus on developing vocabulary and reasoning skills. Key literature studied during the course include novels, selected fiction, selected non-fiction, social issues, cultural issues and poetry of the Spanish speaking world. Using the Common Underlying Proficiency approach, which promotes cross-linguistic transfer, concepts learned in Spanish will then be applied in mainstream English classes, providing Bilingual students the opportunity for success.

H: Humanities • S: STEM • WL: World Languages • PW: Physical Wellness

C: Crosby • K: Kennedy • W: Wilby • WAMS: Waterbury Arts Magnet • WCA: Career Academy • SS: State Street • E: Enlightenment

ESL and Bilingual Programming

Mrs. Adela Jorge-Ferguson, Supervisor of ESL/Bilingual

Bilingual Program Course Descriptions - Mathematics

SHELTERED ALGEBRA I (STEM) **Course Code: 301S** **Credits: 1.0** **Grade 9-12**
C, K, W, WAMS, WCA

This course follows the ALGEBRA I curriculum. Sheltered Instruction is used to provide access to grade-level content and promote the development of the English language. Differentiated instruction is used based on students' readiness, interests, and levels of English language proficiency. In this course, students will be empowered with the language needed to process and understand the content, perform required tasks and demonstrate what they have learned.

SHELTERED GEOMETRY (STEM) **Course Code: 351S** **Credits: 1.0** **Grade 10-12**
C, K, W, WAMS, WCA

This course follows the GEOMETRY curriculum. Sheltered Instruction is used to provide access to grade-level content and promote the development of the English language. Differentiated instruction is used based on students' readiness, interests, and levels of English language proficiency. In this course, students will be empowered with the language needed to process and understand the content, perform required tasks and demonstrate what they have learned.

SHELTERED ALGEBRA II (STEM) **Course Code: 321S** **Credits: 1.0** **Grade 11-12**
C, K, W, WAMS, WCA

This course follows the ALGEBRA II curriculum. Sheltered Instruction is used to provide access to grade-level content and promote the development of the English language. Differentiated instruction is used based on students' readiness, interests, and levels of English language proficiency. In this course, students will be empowered with the language needed to process and understand the content, perform required tasks and demonstrate what they have learned.

SHELTERED PRECALCULUS (STEM) **Course Code: 371S** **Credits: 1.0** **Grade 11-12**
C, K, W, WAMS, WCA

This course follows the PRECALCULUS curriculum. Sheltered Instruction is used to provide access to grade-level content and promote the development of the English language. Differentiated instruction is used based on students' readiness, interests, and levels of English language proficiency. In this course, students will be empowered with the language needed to process and understand the content, perform required tasks and demonstrate what they have learned.

H: Humanities • S: STEM • WL: World Languages • PW: Physical Wellness

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Bilingual Program Course Descriptions - Science

SHELTERED INTEGRATED EARTH AND PHYSICAL SCIENCE (STEM) **Course Code: 431S** **Credits: 1.0**

C, K, W

This course follows the INTEGRATED EARTH AND PHYSICAL SCIENCE curriculum. Sheltered Instruction is used to provide access to grade-level content and promote the development of the English language. Differentiated instruction is used based on students' readiness, interests, and levels of English language proficiency. In this course, students will be empowered with the language needed to process and understand the content, perform required tasks and demonstrate what they have learned.

SHELTERED BIOLOGY (STEM) **Course Code: 401S** **Credits: 1.0**

C, K, W

This course follows the BIOLOGY curriculum. Sheltered Instruction is used to provide access to grade-level content and promote the development of the English language. Differentiated instruction is used based on students' readiness, interests, and levels of English language proficiency. In this course, students will be empowered with the language needed to process and understand the content, perform required tasks and demonstrate what they have learned.

SHELTERED CHEMISTRY (STEM) **Course Code: 421S** **Credits: 1.0**

C, K, W, WAMS, WCA

Prerequisite: Algebra I. This course follows the CHEMISTRY curriculum. Sheltered Instruction is used to provide access to grade-level content and promote the development of the English language. Differentiated instruction is used based on students' readiness, interests, and levels of English language proficiency. In this course, students will be empowered with the language needed to process and understand the content, perform required tasks and demonstrate what they have learned.

SHELTERED HUMAN BIOLOGY (STEM) **Course Code: 411S** **Credits: 1.0**

C, K, W, WAMS, WCA

This course follows the HUMAN BIOLOGY curriculum. Sheltered Instruction is used to provide access to grade-level content and promote the development of the English language. Differentiated instruction is used based on students' readiness, interests, and levels of English language proficiency. In this course, students will be empowered with the language needed to process and understand the content, perform required tasks and demonstrate what they have learned.

**SHELTERED ENVIRONMENTAL
SCIENCE (STEM)****Course Code: 445S****Credits: 1.0****C, K, W**

This course follows the HUMAN BIOLOGY curriculum. Sheltered Instruction is used to provide access to grade-level content and promote the development of the English language. Differentiated instruction is used based on students' readiness, interests, and levels of English language proficiency. In this course, students will be empowered with the language needed to process and understand the content, perform required tasks and demonstrate what they have learned.

Bilingual Program Course Descriptions - Social Studies

MODERN WORLD HISTORY (H) **Course Code: 571S** **Credits: 1.0**

C, K, W

This course follows the Modern World History curriculum. Sheltered Instruction is used to provide access to grade-level content and promote the development of the English language. Differentiated instruction is used based on students' readiness, interests, and levels of English language proficiency. In this course, students will be empowered with the language needed to process and understand the content, perform required tasks and demonstrate what they have learned.

CIVICS * (H) **Course Code: 531S** **Credits: 0.5**

C, K, W

This course follows the Civics curriculum. Sheltered Instruction is used to provide access to grade-level content and promote the development of the English language. Differentiated instruction is used based on students' readiness, interests, and levels of English language proficiency. In this course, students will be empowered with the language needed to process and understand the content, perform required tasks and demonstrate what they have learned.

US HISTORY II * (H) **Course Code: 541S** **Credits: 0.5**

C, K, W

This course follows the US History II curriculum. Sheltered Instruction is used to provide access to grade-level content and promote the development of the English language. Differentiated instruction is used based on students' readiness, interests, and levels of English language proficiency. In this course, students will be empowered with the language needed to process and understand the content, perform required tasks and demonstrate what they have learned.

US HISTORY III * (H) **Course Code: 551S** **Credits: 1.0**

C, K, W

This course follows the US History III curriculum. Sheltered Instruction is used to provide access to grade-level content and promote the development of the English language. Differentiated instruction is used based on students' readiness, interests, and levels of English language proficiency. In this course, students will be empowered with the language needed to process and understand the content, perform required tasks and demonstrate what they have learned.

ESL Program Course Descriptions

ESL - BEGINNERS (WL) **Course Code: 016** **Credits: 2.0** **Grades 9- 12** **C, K, W, WAMS, WCA**

This course introduces Newcomers and EL Beginners to basic structures and vocabulary of the English language through the four domains of language acquisition: speaking, listening, reading, and writing in alignment with the Connecticut English Language Proficiency Standards, Connecticut Common Core Standards, and National TESOL (Teaching English to Speakers of Other Languages) Standards. Students will acquire the language necessary to construct meaning and complete grade-appropriate tasks with scaffolds and supports, while continually developing English proficiency. Students will develop foundational skills for everyday situations to help them meet their linguistic, social, emotional, and cultural needs through coursework and performance tasks. Through exposure to academic content and to a variety of texts that are accessible and relevant, students will progress toward college and career readiness. Sheltered Instruction is used to provide access to grade-level content and promote the development of English language proficiency. Students are placed in this course based on the results of the LAS Links (Language Assessment Scale) placement test.

ESL - INTERMEDIATE (WL) **Course Code: 026** **Credits: 1.0** **Grades 9- 12** **C, K, W, WAMS, WCA**

The ESL-Intermediate curriculum is aligned with the Connecticut English Language Proficiency Standards and Connecticut Common Core Standards. The curriculum consists of four units of study specific to English learners that are differentiated according to levels of language proficiency. The units are carefully designed and modified to ensure skill practice in reading, writing, researching, listening, and speaking in order for students to progress in their English language proficiency. Students will engage in critical analysis of fictional literature and informational texts with a focus on developing vocabulary and reasoning skills. Key literature studied during the course include: *To Kill A Mockingbird*, *The Odyssey*, *Of Mice and Men*, and *The Tragedy of Romeo and Juliet*, as well as selected fiction, non-fiction, and poetry. Sheltered Instruction is used to provide access to grade-level academic content and promote the development of English language proficiency. Students are placed in this course based on LAS Links scores and teacher recommendations.

ESL - ADVANCED 1 (WL)**Course Code: 036****Credits: 1.0****Grades 9- 12****C, K, W, WAMS, WCA**

ESL Advanced 1 curriculum is aligned with the Connecticut English Language Proficiency Standards and Connecticut Common Core Standards. The curriculum consists of four units of study specific to English learners that are differentiated according to levels of language proficiency. The units are carefully designed and modified to ensure skill practice in reading, writing, researching, listening, and speaking in order for students to progress in their English language proficiency. Students will engage in critical analysis of fictional literature and informational texts with a focus on developing vocabulary and reasoning skills. Key literature studied during the course include: Macbeth, Animal Farm, Frankenstein, and Night, as well as selected fiction, non-fiction, and poetry. Sheltered Instruction is used to provide access to grade-level academic content and promote the development of English language proficiency. Students are placed in this course based on LAS Links scores and teacher recommendations.

ESL - ADVANCED 2 (WL)**Course Code: 046****Credits: 1.0****Grades 9- 12****C, K, W, WAMS, WCA**

ESL Advanced 2 curriculum is aligned with the Connecticut English Language Proficiency Standards and Connecticut Common Core Standards. The curriculum consists of four units of study specific to English learners that are differentiated according to levels of language proficiency. The units are carefully designed and modified to ensure skill practice in reading, writing, researching, listening, and speaking in order for students to progress in their English language proficiency. Students will engage in critical analysis of fictional literature and informational texts with a focus on developing vocabulary and reasoning skills. Key literature studied during the course include: The Scarlet Letter, Adventures of Huckleberry Finn, The Great Gatsby, and A Midsummer Night's Dream, as well as selected fiction, non-fiction, and poetry. Sheltered Instruction is used to provide access to grade-level academic content and promote the development of English language proficiency. Students are placed in this course based on LAS Links scores and teacher recommendations.

Career & Technical Education

Mr. Michael Merati, Supervisor of Career and Technical Education

The Career & Technical Education Department is committed to preparing all students for college, career, and life readiness and articulating post-high school plans for enrollment, employment, or enlistment. We focus our efforts to develop a student's competitive advantage by offering a comprehensive experience related to academic, technical, and professional skills. The department has developed a flexible academy model that includes robust career pathways and comprehensive programs of study that focus on high wage, high demand, and high skill careers. Our engaging curriculum, innovative instruction, and effective assessments infuse opportunities for students to earn college credit, participate in work-based learning experiences and earn industry-recognized credentials that leverage career connected learning, employment skills, and career-ready practices.

Academy	Career Cluster	Career Pathway	Industry Based Standards
Business, Finance, Marketing & Entrepreneurship	Business Management & Administration	General Management	Marketing & Business Administration Research and Curriculum Center (MBA Research) National Business Education Association (NBEA)
Business, Finance, Marketing & Entrepreneurship	Finance	Accounting Investments & Securities	Marketing & Business Administration Research and Curriculum Center (MBA Research) National Business Education Association (NBEA)
Business, Finance, Marketing & Entrepreneurship	Marketing, Sales & Service	Marketing Communications	Marketing & Business Administration Research and Curriculum Center (MBA Research) National Retail Federation (NRF) Marketing Education Resource Center (MarkED) National Business Education Association (NBEA)
Education & Training	Education & Training	Teacher / Training	National Association for the Education of Young Children (NAEYC) Educators Rising (National Educators Association & National Board for Professional Teaching Standards)
Education & Training	Hospitality & Tourism	Restaurant, Food, Beverage, & Services (Culinary)	National Restaurant Association Education Foundation (NRAEF) American Culinary Federation Education Foundation (ACFEF)

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Health Sciences	Health Sciences	Therapeutic Services	American Medical Technologists (AMT) National Consortium for Health Science Education (NCHSE) National Highway Traffic Safety Administration (NTSA) EMT
Information Technology & Engineering	Information Technology	Information Support & Services Web & Digital Communications Programming & Software Development	CompTIA Cisco Networking Academy Adobe The Graphic Arts Education & Research Foundation (GAERF) PrintED Computer Science Teachers Association (CSTA)
Information Technology & Engineering	Science, Technology, Engineering & Mathematics	Engineering, Design & Development	International Technology and Engineering Educators Association (ITEEA) Next Gen Science Standards (NGSS)
Manufacturing, Construction & Industrial Systems	Architecture & Construction	Construction Pre-Construction/Design	National Center for Construction Education & Research (NCCER) Home Builders Institute (HBI)
Manufacturing, Construction & Industrial Systems	Manufacturing	Manufacturing Production	Manufacturing Skill Standards Council (MSSC) National Institute Metalworking Skills (NIMS)
Manufacturing, Construction & Industrial Systems	Transportation, Distribution, & Logistics	Facility & Mobile Equipment Maintenance Transportation Operations	National Automotive Technicians Education Foundation (NATEF) National Institute for Automotive Service Excellence (ASE) American Welding Society (AWS) ISO Unmanned Aircraft Systems (Drones)

H: Humanities • S: STEM • WL: World Languages • PW: Physical Wellness

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The Academy of Construction, Manufacturing, and Industrial Systems

Architecture & Construction Construction Career Pathway

Course Sequence

Grade 9	Grade 10	Grade 11	Grade 12
Construction 1 Construction 2	Construction 3	Construction 4	NELTA
Stagecraft 1	Stagecraft 2	Stagecraft 3	Stagecraft 4

Construction Course Descriptions

CONSTRUCTION 1 * (S) C, K, W, SS

Course Code: 750

Credits: 0.5

All Grades

Construction 1 introduces students to the various types of woods used in industry and offers experiences in using selected woodworking tools. Correct and safe use of tools and equipment is emphasized. As students advance, they focus on learning the terminology necessary to use power tools successfully, developing skills to safely use these tools in the workshop and becoming familiar with various kinds of wood-finishing materials. This course begins a student's career pathway in Construction by completing the Core Curriculum certified by NCCER (National Center for Construction Education & Research) and IMTI (Industrial Management & Training Institute).

CONSTRUCTION 2 * (S) C, K, W

Course Code: 751

Credits: 0.5

All Grades

Prerequisite: Construction 1

Construction 2 focuses on carpentry skills and provides information related to the building of wooden structures, enabling students to gain an understanding of wood grades and construction methods and to learn skills such as laying sills and joists; erecting sills and rafters; applying sheathing, siding, and shingles; setting door jambs; and hanging doors. Carpentry courses may teach skills for rough construction, finish work, or both. Students learn to read blueprints, draft, use tools and machines properly and safely, erect buildings from construction lumber, perform finish work inside of buildings, and do limited cabinet work. Carpentry courses may also include career exploration, good work habits, and employability skills. Construction 2 starts addressing modules in the NCCER Level 1 Carpentry curriculum.

CONSTRUCTION 3 HONORS (S) **Course Code: 752** **Credits: 1.0** **Grades 10-12**
C, K, W

Prerequisite: Construction 2

Construction 3 provides students with information related to the building of wooden structures, enabling students to gain an understanding of wood grades and construction methods and to learn skills such as laying sills and joists; erecting sills and rafters; applying sheathing, siding, and shingles; setting door jambs; and hanging doors. Carpentry courses may teach skills for rough construction, finish work, or both. Students learn to read blueprints, draft, use tools and machines properly and safely, erect buildings from construction lumber, perform finish work inside of buildings, and do limited cabinet work. Carpentry courses may also include career exploration, good work habits, and employability skills. Construction 3 completes NCCER Level 1 Carpentry modules.

CONSTRUCTION 4 HONORS (S) **Course Code: 754** **Credits: 1.0** **Grades 11-12**
C, K, W

Prerequisite: Construction 3

The Advanced Construction 4 course focuses on residential construction principles and their relationship to commercial applications. Topics typically covered include commercial concrete forming, reinforcement and placement methods, stair construction, metal framing, interior finishes, suspended ceiling systems, metal framing and drywall applications, and commercial roofing methods and systems. This course begins NCCER Carpentry Level 2 Framing and Finishing.

NELTA - NEW ENGLAND LABORERS **Course Code: NELTA** **Credits: 0.50** **Grade 12**
TRAINING ASSOCIATION (S)
C, K, W, WCA

Are you a senior interested in a high paying and rewarding career after graduation? Do you enjoy working outside and working with your hands? The Connecticut Pre-Apprenticeship High School Training Program may be for you. Students will learn the process for applying to the Laborers, Carpenters, Iron Workers, Electricians and Operating Engineers Unions. Students will also learn to wire a light fixture, mix and install concrete and take field trips to the apprenticeships training centers. Participants earn three certifications - CPR/First Aid, Flagger and OSHA 10. Students meet on one occasion each month for the entire school year. This course is in addition to a student's schedule and does not replace any other credit bearing courses. Students will be excused 1 day per month for either class instruction or field trips. Limit of 20 students per high school.

STAGECRAFT 1 (H) **Course Code: 7821** **Credits: 1.0** **All Grades**
WAMS

Stagecraft 1 course provides students with an understanding of the various aspects of theatrical production including set construction, painting, and computer applications as needed. These courses prepare students to engage in the hands-on application of these production elements in design and technology courses.

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STAGECRAFT 2 (H)**Course Code: 7822****Credits: 1.0****Grades 10-12****WAMS***Prerequisite: Stagecraft 1*

Stagecraft 2 course provides students with an understanding of the various aspects of theatrical production including set construction, painting, and computer applications as needed. These courses prepare students to engage in the hands-on application of these production elements in design and technology courses.

STAGECRAFT 3 HONORS (H)**Course Code: 7823****Credits: 1.0****Grades 11-12****WAMS***Prerequisite: Stagecraft 2*

Stagecraft 3 covers elements of technical theater including practical hands-on experience in designing for the stage, construction, scenic design and stage rigging. Perform script analysis techniques necessary to glean visual information required for the design. Reading & executing drafting paperwork properly. Successfully working with materials and tools & equipment common to a stage & scene shop. Installing & decorating scenery for a mainstage show. Reading a script and transforming your thoughts into a tangible scene.

STAGECRAFT 4 HONORS (H)**Course Code: 7825****Credits: 1.0****Grade 12****WAMS***Prerequisite: Stagecraft 3*

Stagecraft 4 covers elements of technical theater including practical hands-on experience in designing for the stage, construction, scenic design and stage rigging. Perform script analysis techniques necessary to glean visual information required for the design. Demonstrate the pros and cons of three traditional stage types: Proscenium, Thrust, and Arena as approached from a student scenic designer's viewpoint. Produce scaled ground plans, sectional drawings and construction drawings pertinent to a specified script and a particular stage type stated above.

Transportation, Distribution & Logistics Facility & Mobile Equipment Maintenance Career Pathway

Automotive Course Sequence

Grade 9	Grade 10	Grade 11	Grade 12
Automotive 1 Automotive 2	Automotive 3	Automotive Service Excellence	

Automotive Course Descriptions

AUTOMOTIVE 1 * (S) Course Code: 740 Credits: 0.5 All Grades
C, K W

This course covers the theory behind an internal combustion engine. Students will learn this theory and apply it to the disassembly, cleaning, stripping, painting, repair, and reassembly of a small 4-stroke-cycle engine. Basic tool skills, personal responsibility, positive attitude, and lab safety will be stressed.

AUTOMOTIVE 2 * (S) Course Code: 741 Credits: 0.5 All Grades
C, K W

Prerequisite: Automotive 1

Automotive 2 continues with the learning concepts from Automotive 1 and builds upon the skills needed to keep current in the automotive industry. Students will continue to develop knowledge of the different transportation systems and learn through hands-on activities how to use different automobile equipment in repairing automobiles.

AUTOMOTIVE 3 HONORS (S) Course Code: 745 Credits: 1.0 Grades 10-12
C, K W

Prerequisite: Automotive 2

Advanced Automotive will expand upon the depth of the content in understanding built in Automotive 1 and 2 as well as introduce more complex contents as noted in the topic listing.

AUTOMOTIVE SERVICE EXCELLENCE (S) Course Code: 7745 Credits: 1.0 Grades 11-12
C, K W

Prerequisite: Automotive 3

This course will engage students in topics that will directly lead to Automotive Service Excellence (ASE) certifications. ASE certifications are nationally recognized by employers that will lead increased opportunities for employment.

Transportation, Distribution & Logistics

Transportation Operations

Aerospace Course Sequence

Grade 9	Grade 10	Grade 11	Grade 12
Drone Technology Drone Operator Prep	Drone Technology Drone Operator Prep	Drone Technology Drone Operator Prep	Drone Technology Drone Operator Prep

Aerospace Course Descriptions

DRONE TECHNOLOGY * (S) C, K W, WCA, WAMS, SS

Course Code: 748

Credits: 0.5

All Grades
WCA Grades 11-12

In this flagship curriculum, the Milestone C team of aerospace professionals employ cutting-edge technologies and techniques to equip students with key professional skills pertinent not only to the drone industry, but also engineering at large. DTE students will learn about basic aerodynamics, unmanned aircraft architecture, and drone flight dynamics before applying the engineering process to design, build, and test fly their own drones in small teams, emulating a real-world aerospace engineering program from beginning to end. Following requirements analysis, design, manufacturing, and flight test, DTE students will embark on an engineering modification program, integrating wireless cameras and First-Person View (FPV) piloting systems on their drones. This one-of-a-kind aerospace experience culminates in a drone challenge, allowing student teams to compete against each other by applying the knowledge, skills, and experience gained during the course.

DRONE OPERATOR PREP HONORS * (S) C, K W, WCA, WAMS

Course Code: 749

Credits: 0.5

All Grades
WCA Grades 11-12

Prerequisite: Drone Technology

The emergence of drones in everyday life has captured this generation's imagination and remotely-piloted systems are undoubtedly the way of the future! It is estimated there will be 100,000 new civilian unmanned aircraft jobs available by 2025 with an economic impact of 85 billion dollars. DOP focuses on drone aerodynamics, design architecture, careers, and offers extensive flight training opportunities on highly-realistic drone simulators. This curriculum also serves as an intensive FAA test prep course for students who wish to become licensed commercial drone operators. In a truly unique combination, DOP creates a hands-on laboratory environment for students to apply their previous STEM knowledge while opening doors for lucrative and prestigious future career opportunities.

Manufacturing

Manufacturing Production

Manufacturing Production Course Sequence

Grade 9	Grade 10	Grade 11	Grade 12
Manufacturing Exp. (WCA) Manufacturing 1 (C) Manufacturing 2 (C)	Lathe 1 & 2 (WCA) Milling 1 & 2 (WCA) Mechanical CAD 1 (WCA) Manufacturing 3 (C)	Manufacturing 4 (C) Saw & Drill (WCA) Benchwork (WCA)	Manufacturing NVCC (C, K, W) CNC (WCA)

Manufacturing Course Descriptions

MANUFACTURING 1 * (S) C, SS

Course Code: 7735

Credits: 0.5

All Grades

Students will learn to safely operate a wide variety of machinery and tools. Some of the equipment will include: milling machines, metal lathes, CNC laser engravers, CNC routers and CNC plasma cutters. Students will also learn to make production parts and hold tolerances up to .001". Current manufacturing philosophies such as LEAN, JIT, 5S, and Kaizen will be discussed and implemented in the classroom. This course is recommended for any student interested in mechanical engineering or a career in manufacturing.

MANUFACTURING 2 * (S) C

Course Code: 7736

Credits: 0.5

All Grades

Prerequisite: Manufacturing 1

This half year course is offered to students interested in expanding the skills learned in Manufacturing I. Manufacturing I requires students to manually operate a variety of machines. In Manufacturing II students will operate many of the same machines but will use computers to program the machines. The course starts by using basic G-code to program the machines. Students progress to 3-D modeling software that will program the machines to make what is modeled on the screen. This is the basics of CAM-Computer Aided Machining. This course is a must for students interested in today's cutting edge manufacturing processes or any student pursuing engineering in college.

MANUFACTURING 3 HONORS (S) C

Course Code: 7737

Credits: 1.0

Grades 10-12

*Prerequisite: *Manufacturing 2*

Students will engage with topics in automation, manufacturing processes, computer modeling and various CNC (Computer Numerical Control) manufacturing equipment. Students will work in teams to apply the engineering design process to research, design, justify, and produce a finished product.

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MANUFACTURING 4 HONORS (S) **Course Code: 7738** **Credits: 1.0** **Grades 11-12**
C

*Prerequisite: *Manufacturing 3*

Using the Crosby High Schools state of the art new manufacturing facility, students will research, design, produce, validate and problem solve a custom, or improvement to, a current product of their own interest. The student teams may present their findings to a panel that will have the ability to provide suggestions for improvements to the student developed custom project.

MANUFACTURING NVCC (S) **Course Code: 798** **Credits: 2.0** **Grade 12**
C, K, W

Machining courses enable students to design and manufacture metal parts using various machine tools and equipment. Course content may include interpreting specifications using blueprints; preparing and using manual and computer numerical controlled (CNC) lathes and milling machines, shapers, and grinders with skill, safety, and precision; maintenance; developing part specifications; and selecting appropriate materials. Advanced course topics may include quality control; statistical process control; and application of measurements, metalworking theory, and properties of materials. Courses may prepare students for industry certification. This course is conducted offsite at Naugatuck Valley Community College.

MANUFACTURING EXPLORATORY * (S) **Course Code: 701** **Credits: .25** **Grade 9**
WCA

Manufacturing Exploratory is a hands-on creative experience of the engineering design process. This course utilizes Science, Technology, Engineering and Math to create real life parts. Students will utilize math skills and CAD software to electronically draw 2D and 3D models. Students will utilize rapid prototyping (3D Printing), laser engraving and other manufacturing tools to make 3D models into real parts. The course will give students a broad look into what it takes to develop a product from idea to finished product.

MECHANICAL CAD 1 (S) **Course Code: 704** **Credits: 1.0** **Grades 10-12**
WCA

With the explosion of technology as we view it today, an understanding of moving from idea to product is essential. In drafting the student is introduced to concepts as they relate to the four technologies. Within each aspect the student will be guided through instruction, demonstration, hands-on activities and problem solving techniques. Computer Aided Design (CAD) will be introduced. CAD is the organized use of a computer, CRT monitor, input device, and CAD software to perform drafting and design tasks. These tasks can range from simple and repetitive to complex. Since all drafting skills can be reduced to the use of lines, arcs, points, symbols, and text, most CAD systems deal with these primitives and the many ways of grouping, reusing, and manipulating these items. The primitives are used to create more complex drawings through the use of any number of input devices to form the drawing on the screen. Through the use of the software, the drawing can be modified, stored, or dumped to a plotter to produce a hard copy.

BENCH WORK NVCC * (S) WCA	Course Code: 730	Credits: 0.5	Grade 11
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This course is designed to give students practical experience and theory in Manufacturing shop basics. Students will be able to understand and demonstrate methods and processes utilized in the manufacturing lab. The course will include identification of tools, material handling, planning and shop safety. Topics that will be covered include basic hand tools, Personal protective equipment, guards, workflow, layout, material selection and storage, tool selection and Maintenance, chemical safety and handling, Accident prevention and hazard identification.

GRINDING 1 NVCC * (S) WCA	Course Code: 731	Credits: 0.5	Grade 11
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This course is designed to give students practical experience and theory in precision grinding operations and abrasives. Students will be able to understand and demonstrate the methods and processes utilized in setup, operation, safety, wheel selection and grinding of parts. The first course in grinding will include identification of parts, setup and safe lathe operation. Topics that will be covered include identifications of the various types of precision grinding machines, basic surface grinder operations, identification of surface grinder parts, work-holding devices, dwell, grinding wheel selection, cutting fluids.

LATHE 1 NVCC * (S) WCA	Course Code: 732N	Credits: 0.5	Grade 11
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This course is designed to give students practical experience and theory in turning operations and Lathe work. Students will be able to understand and demonstrate the methods and processes utilized in setup, operation, safety, tool selection and turning of parts. The first course in lathe will include identification of parts, setup and safe lathe operation. Topics that will be covered include basic lathe operations, identification of lathe parts, work-holding devices, feeds, speeds, cutting chips, basic tooling, measurement of inside and outside diameters and radii.

MILLING 1 NVCC * (S) WCA	Course Code: 734N	Credits: 0.5	Grade 11
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This course is designed to give students practical and theory in milling operations and millwork. Students will be able to understand and demonstrate methods and processes utilized when setup, operation, safety, tool selection and milling of parts. The first course in milling will include identification of parts, setup and safe mill operation. Topics that will be covered include basic mill operations, identification of mill parts, work-holding devices, cutting chips, basic tooling, measurement of inside and outside diameters and radii.

CAD 1 NVCC * (S) WCA	Course Code: 736	Credits: 0.5	Grade 12
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This course is designed to give students practical and theory in milling operations and millwork. Students will be able to understand and demonstrate methods and processes utilized when setup, operation, safety, tool selection and milling of parts. The first course in milling will include identification of parts, setup and safe mill operation. Topics that will be covered include basic mill operations, identification of mill parts, work-holding devices, cutting chips, basic tooling, measurement of inside and outside diameters and radii.

H: Humanities • S: STEM • WL: World Languages • PW: Physical Wellness

C: Crosby • K: Kennedy • W: Wilby • WAMS: Waterbury Arts Magnet • WCA: Career Academy • SS: State Street • E: Enlightenment

LATHE 2 NVCC * (S)
WCA**Course Code: 738N****Credits: 0.5****Grade 12**

Second course on lathe setup, operation and practices. Topics covered include alignment, turning between centers, and other operations. The student will cut 60 degree external threads, internal threads, tapers, and other thread forms. Use of steady rests and follower rests.

MILLING 2 NVCC * (S)
WCA**Course Code: 742N****Credits: 0.5****Grade 12**

Second course on milling setup, operation, and practices. Topics covered include use of Offset Boring Head, side milling cutters, face milling cutters on the horizontal mill, setup and operation of index heads, simple and direct angular indexing, and inspection of gears.

SAWING & DRILLING NVCC * (S)
WCA**Course Code: 743N****Credits: 0.5****Grade 12**

Course on sawing and drilling machines. Topics covered include use of cutoff saws, use of drill presses, using the vertical band saw, drilling tools, countersinking, reaming and counter boring.

CNC 1 NVCC * (S)
WCA**Course Code: 746N****Credits: 0.5****Grade 12**

This course covers safety, set up, basic programming and operations of CNC Lathe and Milling centers. Students will be learning machining theory, planning and producing projects using CNC lathes, milling centers and accessories.

The Academy of Business, Finance, Marketing & Entrepreneurship

Business Management & Administration General Management Career Pathway

Course Sequence

Grade 9	Grade 10	Grade 11	Grade 12
Bulldogs Business or Eagles Business or Wildcats Business Business Management 1		Business Management 2	Principles of Management POST

Business Management Course Descriptions

BULLDOGS BUSINESS* (H) **Course Code: 610** **Credits: 0.5** **All Grades**
C

This introductory course surveys an array of topics and concepts related to the field of business. These courses introduce business concepts such as finance, consumerism, credit, investment, marketing and management. A brief overview of the U.S. economic system, small businesses, and corporate organizations will be included. Introductory Business courses may also expose students to the varied opportunities in administration, accounting, management, and related fields.

EAGLES BUSINESS* (H) **Course Code: 609** **Credits: 0.5** **All Grades**
K

This introductory course surveys an array of topics and concepts related to the field of business. These courses introduce business concepts such as finance, consumerism, credit, investment, marketing and management. A brief overview of the U.S. economic system, small businesses, and corporate organizations will be included. Introductory Business courses may also expose students to the varied opportunities in administration, accounting, management, and related fields.

WILDCATS BUSINESS* (H) **Course Code: 612** **Credits: 0.5** **All Grades**
W

This introductory course surveys an array of topics and concepts related to the field of business. These courses introduce business concepts such as finance, consumerism, credit, investment, marketing and management. A brief overview of the U.S. economic system, small businesses, and corporate organizations will be included. Introductory Business courses may also expose students to the varied opportunities in administration, accounting, management, and related fields.

H: Humanities • S: STEM • WL: World Languages • PW: Physical Wellness

C: Crosby • K: Kennedy • W: Wilby • WAMS: Waterbury Arts Magnet • WCA: Career Academy • SS: State Street • E: Enlightenment

BUSINESS MANAGEMENT 1 * (H) **Course Code: 604** **Credits: 0.5** **All Grades**
C,K,W, SS

Prerequisite: Course 609/610/612

Business Management 1 acquaints students with management opportunities and effective human relations. BM1 provides students with the skills to perform planning, staffing, financing, and controlling functions within a business. In addition, BM1 provides a macro-level study of the business world, including business structure and finance, and the interconnections among industry, government, and the global economy. This course also emphasizes problem-based, real-world applications of business concepts and uses accounting concepts to formulate, analyze, and evaluate business decisions.

BUSINESS MANAGEMENT 2 HONORS (S) **Course Code: 605** **Credits: 1.0** **Grades 10-12**
C,K,W

Prerequisite: Business Management 1

Business Management 2 helps students develop the knowledge and skills necessary to own and operate their own businesses. The course content covers topics from a number of fields: economics, marketing principles, human relations and psychology, business and labor law, legal rights and responsibilities of ownership, business and financial planning, finance and accounting, communication, information management, risk management, and strategic management. Several topics surveyed in Business Management 1 are also included as well as Entrepreneurial skills.

PRINCIPLES OF MANAGEMENT POST (S) **Course Code: MGT105** **Credits: 1.0** **Grade 12**
C,K,W, WCA, WAMS

Prerequisite: Business Management 2

This course is an introduction to the principles of management examining their application in public and private, profit and non-profit organizations. Students will explore the areas of employee motivation, group behavior, leadership, strategic planning, organizational design, and career opportunities. Fundamental concepts of management, effective communication competency, ethical dilemmas faced by managers and corporate social responsibility will be explored. With successful completion of this course, students will receive college credit from Post University.

Finance**Accounting Services Career Pathway****Course Sequence**

Grade 9	Grade 10	Grade 11	Grade 12
Accounting 1 Accounting 2		Accounting 3	Financial Accounting Post

Accounting Course Description**ACCOUNTING 1 * (S)****Course Code: 606****Credits: 0.5****All Grades****C, K, W, SS**

Provides complete coverage of service and merchandising businesses with two different types of ownership structures—proprietorships and partnerships. Each type of business is presented in a complete accounting cycle covering the analyzing of transactions into debit and credit accounts, journalizing, posting, cash control systems, financial statements and adjusting and closing entries. Accounting concepts are introduced using a modern business with owners that students can relate to in each cycle.

ACCOUNTING 2 * (S)**Course Code: 607****Credits: 0.5****All Grades****C, K, W***Prerequisite: Accounting 1*

Begins with a business simulation in which students perform all of the tasks covered in Accounting 1. The remainder of the course is dedicated to the study of accounting tasks that must be performed by or for a corporation. The advantages and disadvantages of this type of ownership are discussed as well as a brief overview of the stock market. In Accounting 2, students perform all of the accounting tasks and activities in the accounting cycle for a corporation. Solving problems, making decisions and reasoning are used throughout this course.

ACCOUNTING 3 HONORS (S)**Course Code: 608****Credits: 1.0****Grades 10-12****C, K, W***Prerequisite: Accounting 2*

Begins with a business simulation in which students perform all of the tasks covered in Accounting 1. The remainder of the course is dedicated to the study of accounting tasks that must be performed by or for a corporation. The advantages and disadvantages of this type of ownership are discussed as well as a brief overview of the stock market. In Accounting 2, students perform all of the accounting tasks and activities in the accounting cycle for a corporation. Solving problems, making decisions and reasoning are used throughout this course.

**FINANCIAL ACCOUNTING POST (S)
C,K,W****Course Code: ACC111****Credits: 1.0****Grades 11-12***Prerequisite: Accounting 3*

This course is for the student to learn about accounting as an information development and communications function that supports economic decision-making. The course will help students perform financial analysis; derive and assess information for personal or organizational decisions; and understand business, governmental, and other organizational entities. With successful completion of this course, students will receive college credit from Post University.

Finance

Investments & Securities Career Pathway

Course Sequence

Grade 9	Grade 10	Grade 11	Grade 12
	Money Management Investing & Stock Market	Money Management Investing & Stock Market	Money Management Investing & Stock Market

Investing & Securities Course Descriptions

MONEY MANAGEMENT* (S)

Course Code: 677

Credits: 0.5

Grades 10-12

C, K, W, WCA, E, SS

The estimated average student loan debt for a Class of 2021 college graduate is \$36,140. This course examines the financial planning, management and investment needs of individuals and households using a virtual simulation environment. Students will become experts in financial literacy pertaining to personal budgeting, paying for college, credit cards, credit score, banking, loans, homeownership, insurance and investing. Upon successful completion of the course, students will be able to prepare a personal financial plan, budget and control income and expenses, economically and wisely purchase major expense items such as a house and a car, purchase needed insurance thoughtfully and purposefully and begin a program for retirement and investments so that personal financial goals can be reached.

INVESTING & THE STOCK MARKET* (S)

Course Code: 6678

Credits: 0.5

Grades 10-12

C,K,W,WCA

Prerequisite: Money Management

Students will be given the opportunity to explore various vehicles for investing, including stocks, bonds, and mutual funds. Students will learn the fundamentals of these investment options and will explore associated risks and rewards of investing. This course will explore the stock market and publicly traded companies and their stock performance. Students will participate in a stock market investing simulation where they will be given the opportunity to select and track a stock portfolio over a period of time.

Marketing, Sales & Service**Marketing Communications Career Pathway****Course Sequence**

Grade 9	Grade 10	Grade 11	Grade 12
Marketing 1 Marketing 2		Marketing 3	Principles of Marketing Post

Marketing Communications Course Descriptions

MARKETING 1 * (H) Course Code: 669 Credits: 0.5 All Grades C, K, W, SS

Marketing 1 offers students insight into the processes affecting the flow of goods and services from the producer to the consumer. Course content ranges considerably as general marketing principles such as purchasing, distribution, and sales are covered; however, a major emphasis is often placed on kinds of markets; market identification; product planning, packaging, and pricing; and business management.

MARKETING 2 * (H) Course Code: 682 Credits: 0.5 All Grades C, K,W

Prerequisite: Marketing 1

Marketing 2, deals with the marketing function of the firm primarily from the management standpoint. Topics include marketing strategy, new products, channels of distribution, pricing, and promotion. The function of the marketing institution in economic and social context is considered.

MARKETING 3 HONORS (H) Course Code: 6682 Credits: 1.0 Grades 10-12 C, K,W

Prerequisite: Marketing 2

Marketing 3 engages students in advanced marketing topics based on knowledge from previous marketing courses.

PRINCIPLES OF MARKETING POST (H) Course Code: MKT200 Credits: 1.0 Grade 12 C, K,W,WCA, WAMS

Prerequisite: Marketing 3

This course examines the basic marketing principles practiced by modern organizations including product development, distribution, promotion and pricing. Students explore topics including consumer engagement, strategic planning, and best practices along with the importance of measurements, analysis and utilizing acquired data. With successful completion of this course, students will receive college credit from Post University.

The Academy of Health Sciences

Health Sciences

Therapeutic Services Career Pathway

Course Sequence

Grade 9	Grade 10	Grade 11	Grade 12
Health Exploratory	Foundations of Health	Nursing Assistant Class & Clinical Certification Medical Assistant Intro to AH Professions UCONN	Health Science Careers Medical Terminology UCONN Pharmacy Technician Physical Therapy EMT-B UCONN

Health Science Course Descriptions

HEALTH EXPLORATORY (S)

Course Code: 680E

Credits: .25

Grade 9

WCA

Students in this course explore the Health Career Cluster and the various careers within each cluster. Career research and presentation is an integral part of this course. In addition, basic medical terminology, principles of infection control, overview of the human body and vital signs are introduced. Students work in a skill lab and proper hand washing technique is taught. Guest lectures from the various healthcare career pathways are included in this course.

FOUNDATIONS OF HEALTH (S)

Course Code: 684

Credits: 1.0

Grade 10

K, W, WCA, SS

This course is part of the health services core designed to provide the student with an in-depth knowledge of the body systems. Students expand their knowledge of the health care system and associated occupations. Emphasis is placed on communication and interpersonal skills, use of technology, legal and ethical responsibilities including HIPAA, workplace safety OSHA and the development of critical thinking, medical terminology and vital signs.

**NURSE ASSISTANT CNA (S) Course Code: 676 Credits: 1.0 Grade 11-12
K,W,WCA**

Prerequisite: Foundations of Health

Students in this course will participate in academic and skill mastery, roles and responsibilities of the nurse assistant, patient care skills, geriatric care, safety and comfort, infection control, vital signs, and patient assessments.

**NURSE ASSISTANT CNA CLINICAL (S) Course Code: 676C Credits: 2.0 Grade 11-12
K,W,WCA**

Prerequisite: Foundations of Health

Students will participate in "hands on" patient care weekly. Combined with 676 the students complete the mandatory 100 hours of combined academic and clinical experience required by the State of Connecticut DPH. Students successfully meeting course requirements will be eligible to take the CT Prometric Certified Nurse Assistant exam for industry certification which is strongly recommended for students who wish to enter into nursing. This course runs concurrently with Nurse Assistant CNA 676

**MEDICAL ASSISTANT (S) Course Code: 686H Credits: 1.0 Grade 11
WCA**

Prerequisite: Foundations of Health

This course provides technical skill proficiency; a competency based applied learning that contributes to academic knowledge, higher order reasoning and problem solving skills, work attitudes, general employability skills, technical skills, and occupation specific skills. Students will explore major areas of Allied Health including Medical Assisting. Upon successful completion of this course, the student will be eligible to take the Certified Medical Administrative Assistant exam for industry certification. This course is recommended for students who wish to enter into Allied Health specialties.

**INTRO ALLIED HEALTH PROFESSIONS Course Code: 690U Credits: 1.0 Grade 11 WCA
UCONN (S) Grade 12 K,W
K,W,WCA**

Prerequisite: Foundations of Health

This UCONN ECE course will offer 11th or 12th grade students an overview of allied health professions. A variety of allied health professions will be highlighted. Allied health professionals will be invited to describe their work/general duties and responsibilities of the profession, the work environment, educational requirements and employment trends. By investigating various professions in allied health, students will have the opportunity to make informed college and career decisions.

PHYSICAL THERAPY (S) **Course Code: 687H** **Credits: 1.0** **Grade 12****WCA**

Prerequisite: Biology. Runs concurrently with UCONN Medical Terminology, A & P

This course provides technical skill proficiency; a competency based applied learning that contributes to academic knowledge, higher order reasoning and problem solving skills, work attitudes, general employability skills, technical skills, and occupation specific skills. Students will explore major areas of Allied Health including Physical Therapy and Occupational Therapy. This course is recommended for students who wish to enter into Allied Health specialties.

PHARMACY TECHNICIAN HONORS (S) **Course Code: 688H** **Credits: 1.0** **Grade 12****WCA**

Prerequisite: Chemistry, runs concurrently with UCONN Medical Terminology

This course introduces basic pharmacy practice. Areas of study include pharmacy law, communication skills, and data entry of prescriptions, inventory and proportion, dosage calculations, concentrations and dilutions, flow rates and milliequivalents. This course will include 100 hours of work based learning in a retail pharmacy setting and the student receiving a CT. Pharmacy Technician Certification. Upon completion of this course, students will be eligible for the Pharmacy National Certification exam (PTCB)

MEDICAL TERMINOLOGY UCONN (S) **Course Code: 683U** **Credits: 1.0** **Grade 12****K,W,WCA, WAMS**

This UCONN ECE Medical Terminology course provides an introduction to and mastery of medical terminology through presentation of word roots, prefixes and suffixes. It provides meanings for these medical terms in the context of the structure and function of the human body. This course runs each semester for a double period and opposite Health Science Careers at Kennedy and Wilby.

HEALTH SCIENCE CAREERS (S) **Course Code: 6677** **Credits: 1.5** **Grade 12****K,W**

Prerequisite: Foundations of Health & Nurse Assistant

Health Science Careers combines class and clinical experiences in a variety of medical careers at St. Mary's and Waterbury Hospital. This course provides students with hands-on opportunities to hone their clinical skills as they function in a real world work environment. In addition, workplace readiness skills as well as successful employment strategies are embedded throughout the curriculum. Students are engaged in observation dedicated towards traumas in the ER, endoscopies, lab procedures, biopsies, various types of CT Scans, and anatomy in 3D utilizing endoscopic cameras. Students also interact with patients by taking vital signs, observe nurses and physicians performing procedures while working under the direct supervision of a Patient Care Assistant. This course runs each semester for a triple period and opposite Medical Terminology.

**EMERGENCY MEDICAL TECHNICIAN
UCONN EMT-B (S)
WCA****Course Code: 6686U
6686****Credits: 2.0****Grade 12***Prerequisite: Biology run concurrently with UCONN Medical Terminology, A & P*

The purpose of the UCONN Emergency Medical Technician - Basic (EMT-B) course is to provide students with academic and working knowledge to become state certified and to provide basic life support patient care. It provides the basic concepts of emergency care which are needed to function as an EMT-B. This class will be helpful for other healthcare fields and can be used as a prerequisite for many medical professions such as becoming a nurse, a physician's assistant, doctor, or pharmacist. The EMT-B course is an approximately 190-hour classroom and 20-hour clinical course to teach basic life support procedure and emergency care and transport, which require the purchase of a uniform and CPR card. Upon successful completion of all components of the course, students will be eligible for State or National EMT-B certification testing.

The Academy of Education & Training

Hospitality & Tourism

Restaurant, Food, Beverage, & Services Career Pathway

Course Sequence

Grade 9	Grade 10	Grade 11	Grade 12
Culinary 1 Culinary 2	Culinary 3	Culinary 4	Advanced Culinary NVCC

Culinary Course Descriptions

CULINARY 1 * (S)

Course Code: 696

Credits: 0.5

All Grades

C, W, SS

This course focuses on practical principles including safety, sanitation, the proper use of utensils and equipment as well as the fundamentals of commercial cooking and baking. This course leverages the ProStart Level 1 curriculum.

CULINARY 2 * (S)

Course Code: 697

Credits: 0.5

All Grades

C, W

Prerequisite: Culinary 1

This course emphasizes career exploration and more actual experience in the commercial aspects of food preparation and service. Students will complete ProStart Level 1 curriculum. Students may have the opportunity to compete on the state level with other culinary students.

CULINARY 3 HONORS (S)

Course Code: 6697

Credits: 1.0

Grades 10-12

C, W

Prerequisite: Culinary 2

Students will complete the ProStart Level 2 curriculum which includes breakfast food, sandwiches, nutrition, cost control, salads and garnishes, purchasing, inventory, meat, poultry, seafood, marketing, desserts, baked goods, sustainability in the restaurant industry and global cuisine. Students may have the opportunity to compete on the state level with other culinary students.

CULINARY 4 HONORS (S)
C,W**Course Code: 6698****Credits: 1.0****Grades 11-12***Prerequisite: Culinary 3*

Students will cover advanced topics in the culinary industry and may have the opportunity to earn industry recognized credentials from ServSafe.

ADVANCED CULINARY NVCC (S)
C,W**Course Code: 697N****Credits: 1.0****Grade 12***Prerequisite: Culinary 3*

This is an advanced course that engages students in a professional, industry standard environment for students who are interested in a career in the culinary industry. Students successfully completing this course will earn 3 credits with Naugatuck Valley Community College.

Education & Training

Teacher / Training or Social Work Career Pathways

Course Sequence

Grade 9	Grade 10	Grade 11	Grade 12
WCA Education & Training Exploratory	WCA Child Development 1 Child Development 2	WCA Exceptional Child	WCA Human Relations and/or Individual & Family Development UCONN
C,K,W Child Development 1 Child Development 2	C,K,W Exceptional Child	C,K,W,WCA Teacher Prep 1 Teacher Prep 2	C,K,W,WCA If you love it, Teach it UCONN Intro to Special Education UCONN or Teacher Prep 3 & 4 Internship

Teacher Preparation Course Descriptions

EDUCATION & TRAINING EXPLORATORY * (H) Course Code: 8000 Credits: .25 Grade 9
WCA

This exploratory course introduces students to all aspects of education pertaining to child development, teacher preparation and careers within the education industry.

CHILD DEVELOPMENT 1 * (H) Course Code: 821 Credits: 0.5 All Grades
C, K, W, WCA, SS WCA Grade 10

Child Development 2 students will study the intellectual, social, emotional, moral, and physical development of children beginning with prenatal development and continuing through age three. The course emphasizes that development in all these areas are interrelated when dealing with the whole child. Other sections in the course will focus on brain development, communication, and the importance of providing quality learning experiences to children. Students will also be exposed to dealing with children's disabilities, child abuse, safety and health issues, activities, the set-up of early childhood classrooms, and an introduction to child-related career options. This course will provide a basic groundwork for understanding how children develop within the context of a family and society, which can then be applied to a multitude of career opportunities.

H: Humanities • S: STEM • WL: World Languages • PW: Physical Wellness

C: Crosby • K: Kennedy • W: Wilby • WAMS: Waterbury Arts Magnet • WCA: Career Academy • SS: State Street • E: Enlightenment

CHILD DEVELOPMENT 2 * (H)
C,K,W,WCA**Course Code: 825****Credits: 0.5****All Grades**
WCA Grade 10*Prerequisite: Child Development 1*

Child Development 2 students will study the intellectual, social, emotional, moral, and physical development of children from age three to twelve. The course emphasizes that development in all these areas are interrelated when dealing with the whole child. Other sections in the course will focus on brain development, communication, and the importance of providing quality learning experiences to children. Students will also be exposed to dealing with children's disabilities, child abuse, safety and health issues, activities, the set-up of early childhood classrooms, and an introduction to child-related career options. Topics also include exploring popular theorists such as the behaviorists, Piaget, Erikson, Vygotsky, and Bronfenbrenner. Using a holistic model, we will begin to explore the interconnection between physical, cognitive, and social-emotional development of a typical child beginning with prenatal development and continuing through adolescence. This course will provide a basic groundwork for understanding how children develop within the context of a family and society, which can then be applied to a multitude of career opportunities.

EXCEPTIONAL CHILD (H)
C,K,W,WCA**Course Code: 830****Credits: 1.0****Grades 10-12**
WCA Grade 11*Prerequisite: Child Development 1 and 2*

The course explores the development of children with specific challenges and needs. Primarily focused on a classroom setting, we will explore how to define disabilities, the laws that govern special education, and how to best serve them in a public-school setting. This class will provide a brief review of typical development prior to exploring atypical development. Topics to be covered include, but are not limited to, intellectual disabilities, developmental disabilities, deaf and blindness, emotionally disturbed, orthopedically impairment, trauma, and autism.

TEACHER PREP 1 * (H)
C,K,W,WCA**Course Code: 8001****Credits: 0.5****Grades 11-12**

Teacher Prep 1 engages students in Building Your Mindset focused on improvement by having a growth mindset, connecting with their students using an asset based approach, developing self awareness by understanding equity, bias and professionalism while unpacking the Educators Rising standards. This course also provides opportunities to learn how individuals inside institutions operate including how the Waterbury Public School system works, Teachers' Unions, mapping resources available to support students, engaging with a model code of ethics for educators and analyzing the superhero teacher. TP1 also engages students in classroom culture and classroom management. Topics that focus on a teacher's classroom include honoring the student experience, thoughtful classroom set up and structure, developing shared inquiry and dialogue, social and emotional safety and values-based behavior management. Students may also begin to plan and prepare for their potential clinical experience

H: Humanities • S: STEM • WL: World Languages • PW: Physical Wellness

C: Crosby • K: Kennedy • W: Wilby • WAMS: Waterbury Arts Magnet • WCA: Career Academy • SS: State Street • E: Enlightenment

TEACHER PREP 2 HONORS * (H) **Course Code: 8002** **Credits: 0.5** **Grades 11-12**
C,K,W,WCA

Prerequisite: Teacher Prep 1

This course engages students in topics that are related to how teachers think and the basics of instruction. Topics in this course include setting high personal standards, critically thinking about their experiences, accountable talk and meaningful praise, seeking feedback, mentoring, responsive classrooms and cultural competence. TP 2 students will also be introduced to curriculum, the importance of content knowledge, backwards planning, collaborative planning, supporting students facing trauma, special education and culturally responsive teaching. Students may also participate in clinical experiences by observing and assisting teachers in an internship setting.

TEACHER PREP 3 HONORS * (H) **Course Code: 8003** **Credits: 0.5** **Grade 12**
C,K,W,WCA

Prerequisite: Teacher Prep 2

Teacher Prep 3 begins with enriching students' understanding of growth mindset, unpacking the Educators Rising standards, cultural competence, backwards planning, collaborative planning, honoring student experience, understanding equity and modeling a code of ethics for education. TP3 also provides opportunities to access what is inside of skilled teachers' toolboxes. These topics include leading a group discussion, explaining and modeling content/practice/strategies, eliciting and interpreting students' thinking, specifying/reinforcing productive student behavior and formative assessment. Students will also engage in anti-bias instruction that includes student engagement, differentiated instruction, cooperative and collaborative learning, real world connections and values based assessment, evaluation and grading. Students may also participate in clinical experiences by observing and assisting teachers in an internship setting.

TEACHER PREP 4 HONORS * (H) **Course Code: 8004** **Credits: 0.5** **Grade 12**
C,K,W,WCA

Prerequisite: Teacher Prep 3

Teacher Prep 4 culminates the career pathway by engaging students in before and after class topics including setting long and short term learning goals, designing single lessons and sequences of lessons, integrating technology into instruction, selecting/designing formal assessments, interpreting the results of student work, providing oral and written feedback to students and using data to inform instruction. TP4 also develops an All Means All mindset by including topics on inclusive learning environments, anti bullying strategies, and experiential learning. Students may also participate in clinical experiences by observing and assisting teachers in an internship setting.

HUMAN RELATIONS (H)	Course Code: 828	Credits: 1.0	Grade 12
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WCA

Prerequisite: Exceptional Child

Human Relations courses focus on the application of human development theories and stages of growth to the relationships among individuals at various stages of life, as well as provide an understanding of how people change across their lifespans. Course content may include the application of human development theories in family systems and community settings. Interactions of grandparents and their grandchildren, adult children and their aging parents, as well the similarities between caring for the elderly and caring for young children may also be explored.

INDIVIDUAL & FAMILY DEVELOPMENT	Course Code: 860U	Credits: 1.0	Grade 12
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UCONN (H)**WCA**

Prerequisite: Exceptional Child

With successful completion of this course, students will receive 3 credits from the University of Connecticut. This is a required course for Family Studies, Nursing, and Education majors at UCONN and other colleges. Credits can also be transferred to other colleges as a Life-span Development Psychology course. This course is designed as an introduction to the field of Human Development and Family Relations. In particular, the course will focus on the developing individual within the context of the family system over the life-span from prenatal to old age and dying. Students will be required to do job shadowing and internships beyond the classroom. A college text will be used. Students must be in good standing academically to take this course.

INTERNSHIP (H)	Course Code: 827	Credits: 1.0	Grade 12
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WCA

IF YOU LOVE IT, TEACH IT UCONN (H)	Course Code: 8005	Credits: 1.0	Grade 12
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C,K,W,WCA**½ year course**

Prerequisite: Successful completion of three years of high school English. This is an educational foundations survey course for those who are interested in learning more about the landscape of K-12 education and how to connect their passions to it. If You Love it, Teach It engages students interested in working in K-12 settings in studies about teaching, learning, and schooling in the United States. It explores teaching and learning as processes that can relate to personal passions as well as how those passions are shaped, cultivated, or denied in different educational contexts. Course topics will include introductions to historical, philosophical, and social foundations of education, as well as how those foundations and personal passions relate to teaching as a profession, school organization, educational reform, and the reimagining of educational futures. *Though this course is only a half year, students earn 3 UCONN credits and therefore will earn a full high school credit for successful completion of the course.*

**INTRO TO SPECIAL EDUCATION
UCONN (H)
C.K.W.WCA****Course Code: 8006****Credits: 1.0
½ year course****Grade 12**

Prerequisite: Successful completion of three years of high school English. Students will become familiar with the history, laws, regulations and concepts related to exceptional students and special education in American schools. Students will also gain an understanding of the characteristics of certain exceptionalities and how these characteristics might impact student learning, while exploring their own attitudes regarding exceptional students and people with disabilities. Students will also gain an understanding of the roles of various professionals in working with exceptional students in American schools. *Though this course is only a half year, students earn 3 UCONN credits and therefore will earn a full high school credit for successful completion of the course.*

Education & Training

Junior Reserve Officers' Training Corps (JROTC) Career Pathway

Course Sequence

Grade 9	Grade 10	Grade 11	Grade 12
JROTC	JROTC	JROTC	JROTC

JROTC Course Descriptions

JROTC (H)	Course Code: 991	Credits: 1.0	Grades 9-12
C,W	Course Code: 992	Credits: 1.0	Grades 10-12
	Course Code: 993	Credits: 1.0	Grades 11-12
	Course Code: 994	Credits: 1.0	Grade 12

JROTC engages students with curriculum pertaining to citizenship in action, leadership theory and application, foundations for success, wellness, fitness, first aid, geography, map skills, environmental awareness, citizenship in American history, and government. Core Abilities describe the broad, life-long skills that every Cadet needs for success in future life and career endeavors. The core abilities are a result of the goals and values that drive the JROTC program and are built upon the program's four years through integrating various lesson competencies and skills throughout the JROTC curriculum. Cadets may have the opportunity to participate in a number of co-curricular activities. Program outcomes include acting with integrity and personal accountability as you lead others to succeed in a diverse and global workforce, engaging in civic and social concerns in the community, government, and society, graduating prepared to succeed in post-secondary options and career pathways, making decisions that promote positive social, emotional, and physical health, and valuing the role of the military and other service organizations

The Academy of Information Technology & Engineering

Information Technology Information Support & Services Career Pathway

Course Sequence

Grade 9	Grade 10	Grade 11	Grade 12
IT Exploratory	IT Essentials 1	IT Essentials 2	

Information Support & Services Course Descriptions

IT EXPLORATORY (S)

Course Code: 700**Credits: .25****Grade 9****WCA**

This course will provide students with opportunities to develop an understanding and application of information technology. This course explores the nature of technology, technology systems, and the history, evolution and characteristics of technology as well as its effects on our society, culture, economy, politics and the environment.

IT ESSENTIALS CISCO 1 (S)

Course Code: 716**Credits: 1.0****Grades 10-12****WCA**

The Fundamentals of Connecting Computers to Networks. Imagine building a computer then connecting it securely to a network. This exciting first step could lead to a rewarding IT career. Because a sure way to excel—no matter which area of IT you choose—is to learn the right computer fundamentals. IT Essentials covers this as well as shares the career skills needed for entry-level IT jobs. You'll enjoy working with Cisco Networking Academy advanced simulation tools and having multiple hands-on labs that hone your troubleshooting skills. No prerequisites or computer knowledge required. Core skills covered in this course include Install, configure, and troubleshoot computers and mobile devices, Identify common security threats like phishing and spoofing, develop critical thinking and problem-solving skills using both real equipment and Cisco Packet Tracer. This course will prepare students for CompTIA Fundamentals and A+ certification

IT ESSENTIALS CISCO 2 HONORS (S)

Course Code: 717**Credits: 1.0****Grads 11-12****WCA**

This course builds upon the knowledge and skills introduced in IT Essentials Cisco 1. This course will prepare students for CompTIA Fundamentals and A+ certification.

H: Humanities • S: STEM • WL: World Languages • PW: Physical Wellness

C: Crosby • K: Kennedy • W: Wilby • WAMS: Waterbury Arts Magnet • WCA: Career Academy • SS: State Street • E: Enlightenment

Information Technology

Programming & Software Development Career Pathway

Course Sequence

Grade 9	Grade 10	Grade 11	Grade 12
IT Exploratory	Software Development 1	Software Development 1	Software Development 1
	Software Development 2	Software Development 2	Software Development 2

Programming & Software Development Course Descriptions

IT EXPLORATORY (S)

Course Code: 700

Credits: .25

Grade 9

WCA

This course will provide students with opportunities to develop an understanding and application of information technology. This course explores the nature of technology, technology systems, and the history, evolution and characteristics of technology as well as its effects on our society, culture, economy, politics and the environment.

SOFTWARE DEVELOPMENT 1 * (S)

Course Code: 766

Credits: 0.5

All Grades

C,K,W,WCA

WCA Grades 11-12

In today's global technology network, software is the single common thread tying all disciplines together. All STEM industries, without exception, benefit from the efforts of software developers, engineers, and integrators on a daily basis. This lighting-paced course will introduce students to how corporate software projects are developed, managed, integrated, and fielded. An interface-oriented approach to software development eliminates the need for any prior coding experience. Students will navigate this complex world following a project-based roadmap and leave with a significant sense of accomplishment and key professional skills after creating professional-caliber apps, games, and control algorithms. SD graduates will establish a solid foundation in software development principles. More importantly, they will gain a big-picture understanding of interface management and the engineering process at large.

SOFTWARE DEVELOPMENT 2 * (S)

Course Code: 768

Credits: 0.5

All Grades

C,K,W,WCA

WCA Grades 11-12

Prerequisite: Software Development 1

Having gained knowledge in SD 1, students are thrust into a software development project to further their understanding, problem solving and teamwork skills. They will need to rely on team members to do their parts in order to complete the scope of the project on schedule. The students will gain a deep understanding of larger projects that incorporate software and harder integration to allow them to succeed in their future careers no matter what discipline or industry they end up in.

H: Humanities • S: STEM • WL: World Languages • PW: Physical Wellness

C: Crosby • K: Kennedy • W: Wilby • WAMS: Waterbury Arts Magnet • WCA: Career Academy • SS: State Street • E: Enlightenment

Information Technology

Web & Digital Communications Career Pathway

Course Sequence

Grade 9	Grade 10	Grade 11	Grade 12
Graphic Communications 1 & 2	Graphic Communications 1 & 2	Graphic Communications 1 & 2	Graphic Communications 1 & 2
Video Production 1 & 2	Video Production 1 & 2	Video Production 1 & 2	Video Production 1 & 2
Web Design 1 & 2	Web Design 1 & 2	Web Design 1 & 2	Web Design 1 & 2

Web & Digital Communications Course Descriptions

IT EXPLORATORY (S)

Course Code: 700

Credits: .25

Grade 9

WCA

This course will provide students with opportunities to develop an understanding and application of information technology. This course explores the nature of technology, technology systems, and the history, evolution and characteristics of technology as well as its effects on our society, culture, economy, politics and the environment.

GRAPHIC COMMUNICATIONS 1 * (S)

Course Code: 720

Credits: 0.5

All Grades

C,K,W

Graphic Communications is a course of study of the processes used in the graphic communication profession. It is the exchange of information in a visual form, such as words, drawings, photographs, or a combination of these in both printed and electronic form. Students will learn computer applications, the use of varied equipment, and they will incorporate the use of the Internet as a resource in their projects.

GRAPHIC COMMUNICATIONS 2 * (S)

Course Code: 722

Credits: 0.5

All Grades

C, K, W

Prerequisite: Graphic Communications 1

Students receive more advanced instruction in desktop publishing and offset printing, including job planning and layout. Students will study web design, web page development and manage a school website. They will learn job related skills in this industry through hands-on activities that print items for the school. Students will explore career opportunities in the printing and graphic fields.

VIDEO PRODUCTION 1 (S) C,K,W,WAMS	Course Code: 727	Credits: 1.0	All Grades
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Video Production 1 is designed to introduce students to the use of video production technology. The course will focus on the use of cameras and related equipment to produce live and scripted video and to solve technical problems associated with the production process. Through the use of our studio and its equipment, we will develop skills involved in the various roles associated with a video production studio. A large emphasis is placed on leveraging Marketing and how both content areas work together in the real world.

VIDEO PRODUCTION 2 HONORS (S) C,K,W,WAMS	Course Code: 728	Credits: 1.0	Grades 10-12
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Prerequisite: Video Production 1

In Video Production 2, students continue the technical and script writing skills learned in Video Production 1. Students are engaged in a rigorous program that enhances all skill sets learned in VP1.

VIDEO APPLICATIONS 1 (S) WAMS	Course Code: 7281	Credits: 1.0	Grades 10-12
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Prerequisite: Video Production 1

In Video Production 2, students continue the technical and script writing skills learned in Video Production 1. Students are engaged in a rigorous program that enhances all skill sets learned in VP1.

VIDEO APPLICATIONS 2 (S) WAMS	Course Code: 7282	Credits: 1.0	Grades 10-12
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Prerequisite: Video Production 1

In Video Production 2, students continue the technical and script writing skills learned in Video Production 1. Students are engaged in a rigorous program that enhances all skill sets learned in VP1.

WEB DESIGN 1 * (S) WAMS	Course Code: 723	Credits: 0.5	All Grades
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This is a project-based course that teaches students how to build their own web pages. Students will learn the languages HTML and CSS, and will create their own live homepages to serve as portfolios of their creations. Students will finish this course with tangible, professional, mobile responsive websites.

WEB DESIGN 2 * (S) WAMS	Course Code: 724	Credits: 0.5	All Grades
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Prerequisite: Web Design 1

This course builds on skills attained in WD1. Students will learn how to build their own web pages. Students will learn the languages HTML and CSS, and will create their own live homepages to serve as portfolios of their creations. Students will finish this course with tangible, professional, mobile responsive websites.

Science, Technology, Engineering & Mathematics (STEM)

Engineering Design & Development Career Pathway

Course Sequence

Grade 9	Grade 10	Grade 11	Grade 12
IT Exploratory	Conceptual Engineering Milestones	Conceptual Engineering Milestones	Conceptual Engineering Milestones
Conceptual Engineering Milestones	Engineering Design	Engineering Design	Engineering Design
Engineering Design	Robotics 1 & 2	Robotics 1 & 2	Robotics 1 & 2
Robotics 1 & 2	Robotics 3	Robotics 3	Robotics 3

Engineering Design & Development Course Descriptions

IT EXPLORATORY (S)

Course Code: 700

Credits: .25

Grade 9

WCA

This course will provide students with opportunities to develop an understanding and application of information technology. This course explores the nature of technology, technology systems, and the history, evolution and characteristics of technology as well as its effects on our society, culture, economy, politics and the environment.

CONCEPTUAL ENGINEERING MILESTONES * (S) Course Code: 763

Credits: 0.5

All Grades
WCA Grades 11-12

C,K,W,WCA

Designed by professionals with over 50 years of combined experience as Fortune 500 engineers and engineering managers, this course serves as a broad introduction to the world of corporate engineering. CEM is a horizon-broadening experience as much as a project-based laboratory to practice key professional skills required in all 21st century STEM industries including critical thinking, public speaking, task management, and effective teamwork & communication. Through a series of conceptual small-team projects culminating in a hands-on final project, CEM will test the limits of all students' critical-thinking and collaborative abilities. The primary objective is to open students' eyes to the wide variety of career opportunities available to them in 21st century engineering, how to pursue them, and what day-to-day life as a corporate engineer may entail.

**ENGINEERING DESIGN PROJECT
HONORS * (S)
C,K,W,WCA****Course Code: 764****Credits: 0.5****All Grades
WCA Grades 11-12***Prerequisite: CONCEPTUAL ENGINEERING MILESTONES*

This course is the brainchild of engineers educated under the CDIO (Conceived-Design-Implement-Operate) Initiative developed at MIT in the late 1990s. The CDIO approach uses active learning tools, such as group projects and problem-based learning, to better equip engineering students with technical knowledge as well as communication and professional skills. Milestone C's EDP curriculum has been carefully crafted with a sharp technical focus to groom future design engineers. Student teams will embark on an extended design project emulating a real-world engineering program complete with requirements analysis, milestone reviews, schedule and budget management, and a detailed test program prior to fielding a complex, physical end-product. Students will benefit from the technical and soft skills acquired during this course for years to come, regardless of the career path they choose.

**ROBOTICS 1 * (S)
C,WAMS****Course Code: 7795****Credits: 0.5****All Grades**

This half-year course will allow students to study the main technical systems of Robotics. Primary focus will be on the physical, mechanical, pneumatic, and electrical systems and how they connect with industrial manufacturing robots. Students will be given an opportunity to apply robotic theory by constructing and testing several types of robotic machines. Students will be taught safety procedures, design techniques, and an approach to problem solving.

**ROBOTICS 2 * (S)
C,WAMS****Course Code: 7796****Credits: 0.5****All Grades***Prerequisite: Robotics 1*

VEX V5 is a metal-based robotics platform with bolt-together pieces that are machinable to create any mechanism. Students can begin at any level and move to more advanced engineering concepts as they explore and challenge their robotic designs and programs. The VEX V5 Brain enables wireless driving and wireless programming while the V5 Controller provides users with instant feedback from the Robot Brain.

**ROBOTICS 3 HONORS (S)
C, WAMS****Course Code: 7797****Credits: 1.0****Grades 10-12***Prerequisite: Robotics 2*

VEX V5 can be coded using VEXcode, a coding environment that provides students with an authentic programming experience and enables their VEX robots to become an engine of invention. Students use the same tools and programming languages that professionals use every day. With VEXcode, students acquire workforce readiness, and develop their identity as a programmer. Students will go through the engineering design process for an open ended build.

Fine Arts Department

Holly Maxson, Supervisor of Fine Arts

The Waterbury Public Schools Fine Arts Department consists of abstract and aesthetic programs that enrich, enhance and fulfill the student's self-expression, emotional and practical applications. Our visual art, music, dance and theater programs guide students towards deeper self-awareness and with the directive of the Portrait of a Graduate, respond and nurture students while enhancing the student's understanding of cultural differences and commonalities. The Fine Arts Department provides a window of understanding into historical perspective and attitudes. We offer a wide range of elective course offerings in visual art, music dance and theater programs that will encourage students to become critical thinkers, creative problem solvers, effective communicators and to prepare them for college and career readiness in the field of fine arts.

Music Program Course Descriptions

BAND (H) **Course Code: 849** **Credits: 1.0** **All Grades**
C, K, W, WAMS, WCA **849A/849B/849C**

Students develop skills as individual musicians and as members of a musical group. Guidance will be given by the band director in the selection of an instrument. Course content includes beginning level technical and ensemble skills necessary for performance. Some performance opportunities are provided. Marching band techniques and performances may be included. Students must meet both during the school day and outside of the school day for participation requirements.

SYMPHONIC BAND (H) **Course Code: 867** **Credits: 1.0** **All Grades**
C, K, W, WAMS **867A/867B/867C**

Prerequisite is a successful audition. Symphonic Band is open to all students through auditions held in the spring by the band director. The Symphonic Band presents a balanced study of literature at the highest level and quality attainable by the ensemble. The Symphonic Band will present winter and spring concerts and participate in events and festivals. Membership of this ensemble requires practice, rehearsals, and performances outside of the school day as an extension of the classroom activity. Symphonic Band members are required to be members of the marching band, but students involved in fall athletics or with other extenuating circumstances can receive a marching band waiver from the band director on a case by case basis.

WIND ENSEMBLE (H) **Course Code: 869** **Credits: 1.0** **All Grades**
C, K, W, WAMS **869A/869B/869C**

Prerequisite is a successful audition. Students in this course form the representative performing band for the school. Emphasis is placed on the sequential development of advanced technical skills and on the study of related literature. Based on successful completion of sequential concepts for each level, students will continue as specified in course level. Marching band techniques, rehearsals, and performances are required in this course. Students must meet both during the school day and outside of the school day for participation requirements.

JAZZ BAND (H) **Course Code: 896** **Credits: 1.0** **All Grades**
C, K, W, WAMS **896A/896B/896C**

Prerequisite is a successful audition. Schools may require membership in band or advanced band class, and may require participation in marching band. The instrumental jazz ensemble curriculum emphasizes improvisation and styles of the jazz idiom. Content includes the study of blues scale patterns and harmonic progressions innate in jazz music. Content also includes the study of the appropriate jazz literature and rehearsal and performance techniques. Instrumentation of the jazz ensemble is at the discretion of the instructor. Marching band techniques and performances may be included. Students must meet both the school day and outside of the school day participation requirements to receive credit for the course.

PERCUSSION ENSEMBLE (H)	Course Code: 897	Credits: 1.0	All Grades
C, K, W, WAMS	897A/897B/897C		

Schools may also require membership in band or advanced band, chorus or orchestra class. Participation in marching band may be a required part of this course. The percussion ensemble class is designed to meet specific needs of percussionists. Content includes study of the appropriate ensemble literature, and rehearsal and performance techniques from the various areas of musical composition. Instrumentation of the group is at the discretion of the instructor. Marching band techniques and performances may be included. Students must meet both the school day and outside of the school day participation requirements to receive credit for the course.

WINDS & BRASS SECTIONALS (H)	Course Code: 898	Credits: 1.0	All Grades
C, K, W, WAMS	898A/898B/898C		

Schools may also require membership in band or advanced band, chorus or orchestra class. Participation in marching band may be a required part of this course. The Winds & Brass sectionals class is designed to meet specific needs and/or interests. Content includes study of the appropriate ensemble literature, pedagogical techniques, and rehearsal/performance artistry. Instrumentation of the group is at the discretion of the instructor. Marching band techniques and performances may be included. Students must meet both the school day and outside of the school day participation requirements to receive credit for the course. Woodwinds and brass players would meet on alternating days to ensure the instructional technique is being met to the highest standards of the CCSS. Winds include flute, clarinet, saxophones, and double reeds. Brass include trumpet, french horn, mellophone, trombone, euphonium and tuba.

CHORUS (H)	Course Code: 899	Credits: 1.0	All Grades
C, K, W, WAMS, WCA, SS	899A/899B/899C		

Students will participate in a chorus of mixed voices. Emphasis is placed upon correct vocal performance techniques and sight-singing through the study of appropriate choral literature. Based on successful completion of sequential concepts for each level, students will continue to learn progressive musical concepts. Students must meet both the school day and outside of the school day participation requirements to receive credit for the course.

INTERMEDIATE CHORUS (H)	Course Code: 930	Credits: 1.0	All Grades
C, K, W, WAMS	930A/930B/930C		

Prerequisite is Beginning Chorus or successful audition. Intermediate level chorus will provide for the continued study of correct vocal production, sight-singing and development of musicianship through the study of appropriate choral literature. Based on successful completion of sequential concepts for each level, students will continue as specified in course level. Students must meet both the school day and outside of the school day participation requirements to receive credit for the course.

ADVANCED CHORUS (H) C, K, W, WAMS	Course Code: 931 931A/931B/931C	Credits: 1.0	All Grades
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Prerequisite is Intermediate Chorus or successful audition. Students are offered advanced choral experiences for mixed voices. Emphasis is placed on the development of musicianship and proficiency in ensemble performance. Course content includes a study of choral literature, vocal techniques, and sight-singing. Based on successful completion of sequential concepts for each level, students will continue to learn advanced musical concepts.. Students must meet both the school day and outside of the school day participation requirements to receive credit for the course.

VOICE CLASS (H) C, K, W, WAMS, WCA	Course Code: 932 932A/932B/932C	Credits: 1.0	All Grades
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Prerequisite is a successful audition. This ensemble is designed to meet specific needs and /or interests for vocalists. Content includes study of appropriate ensemble literature, and rehearsal and performance techniques from a variety of musical genres. Schools may also require membership in an intermediate or advanced choral class. Voicing of the group is at the discretion of the Choral Director. Students must meet both during the school day and outside of the school day for participation requirements.

MUSIC APPRECIATION * (H) C, K, W, WAMS	Course Code: 1025 1025A	Credits: 0.5	All Grades
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Music History/Appreciation courses survey different musical styles and periods with the intent of increasing students' understanding of music and its importance in relation to the human experience. Music History/Appreciation courses may focus on how various styles of music apply musical elements to create an expressive or aesthetic impact. Students also have the ability for informal music performance and creation within the classroom.

PIANO 1 * (H) C, WAMS, WCA	Course Code: 933 933A/933B/933C	Credits: 0.5	All Grades
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Students learn the fundamentals of keyboard instruments. Keyboard instruction includes the study of scale patterns and knowledge of harmonic progressions as well as individual practice on a keyboard instrument. Instructional literature is selected from classical and contemporary repertoire. Students will perform a recital of solo piano pieces and /or duets with both hands in a variety of musical genres at the end of this course for an audience. Students must meet both during the school day and outside of the school day for participation requirements.

PIANO 2 * (H) C, WAMS, WCA	Course Code: 934 934A/934B/934C	Credits: 0.5	All Grades
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Prerequisite is completion of Piano 1. Students continue to learn the fundamentals of keyboard instruments. Keyboard instruction includes the study of scale patterns and knowledge of harmonic progressions as well as individual practice on a keyboard instrument. Instructional literature is selected from classical and contemporary repertoire. Students will perform a recital of solo piano pieces and /or duets with both hands in a variety of musical genres at the end of this course for an audience. Students must meet both during the school day and outside of the school day for participation requirements.

H: Humanities • S: STEM • WL: World Languages • PW: Physical Wellness

C: Crosby • K: Kennedy • W: Wilby • WAMS: Waterbury Arts Magnet • WCA: Career Academy • SS: State Street • E: Enlightenment

PIANO 3 (H) C, WAMS, WCA	Course Code: 935 935A/935B/935C	Credits: 1.0	All Grades
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Students refine the fundamentals of playing keyboard instruments. Intermediate keyboard instruction includes the study of scale patterns and knowledge of harmonic progressions, as well as individual practice on a keyboard instrument. Instructional literature is selected from classical and contemporary repertoire. Guest artists and field trips to performances and/or seminars may also be part of the curriculum. Student performance may be required. Students will perform a recital of solo piano pieces and /or duets with both hands in a variety of musical genres at the end of this course for an audience. Students must meet both during the school day and outside of the school day for participation requirements.

PIANO 4 ACCOMPANIMENT(H) C, WAMS, WCA	Course Code: 936 936A/936B/936C	Credits: 1.0	All Grades
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Prerequisite is completion of Piano 3 or referral by instructor. Students learn advanced skills for playing keyboard instruments. Advanced keyboard instruction includes the mastery of scale patterns, arpeggios, and knowledge of advanced harmonic progressions, as well as individual practice on a keyboard instrument. Instructional literature is selected from classical and contemporary repertoire. Guest artists and field trips to performances and/or seminars may also be part of the curriculum. Student performance and/or accompanying may be required.

GUITAR * (H) C, WAMS	Course Code: 919 919A/919B/919C	Credits: 0.5	All Grades
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This is a semester long course. Students learn the fundamentals of guitar. Guitar instruction emphasizes basic technique, reading, progressions, and music theory. Instructional literature is selected from classical and contemporary repertoire. Students will perform in a recital at the end of the term either solos, small groups or as a guitar ensemble. Students must meet both during the school day and outside of the school day for participation requirements.

GUITAR 2 * (H) C, WAMS	Course Code: 938 938A/938B/938C	Credits: 0.5	All Grades
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Prerequisite is successful completion of Guitar 1. Students continue to develop skills on the guitar. Guitar instruction emphasizes intermediate technique, reading, progressions and music theory. Instructional literature is selected from classical and contemporary repertoire. Students will perform in a recital at the end of the term either solos, small groups or as a guitar ensemble. Students must meet both during the school day and outside of the school day for participation requirements.

GUITAR ENSEMBLE (H) C, WAMS	Course Code: 939 939A/939B/939C	Credits: 1.0	All Grades
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Prerequisite: Successful audition or permission of the instructor. Students in this course form one of the representative performing guitar ensembles for the school. Emphasis is placed on the sequential development of advanced technical skills and on the study of related literature. Based on successful completion of sequential concepts for each level, students will continue as specified in course level. Students must meet both the school day and outside of the school day participation requirements to receive credit for the course.

GUITAR ENSEMBLE 2 (H) C, WAMS	Course Code: 945 945A/945B/945C/945D	Credits: 1.0	All Grades
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Prerequisite: Successful audition or permission of the instructor. Students in this course form the representative performing guitar ensemble for the school. Emphasis is placed on the sequential development of advanced technical skills and on the study of related literature. Based on successful completion of sequential concepts for each level, students will continue as specified in course level. Students must meet both the school day and outside of the school day participation requirements to receive credit for the course.

BEGINNING ORCHESTRA (H) WAMS	Course Code: 955 955A/955B/955C	Credits: 1.0	All Grades
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Students develop skills as individual musicians and as members of a musical group. Guidance will be given by the instructor in the selection of an instrument. Course content includes beginning level technical and ensemble skills necessary for performance. Some performance opportunities are provided. Students must meet both the school day and outside of the school day participation requirements to receive credit for the course.

ORCHESTRA (H) WAMS	Course Code: 956 956A/956B/956C	Credits: 1.0	All Grades
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Prerequisite is an attainment of beginning level skills and permission of instructor. Students develop skills as individual musicians and as members of a musical group. Guidance will be given by the instructor in the selection of an instrument. Course content includes beginning level technical and ensemble skills necessary for performance. Some performance opportunities are provided. Students must meet both the school day and outside of the school day participation requirements to receive credit for the course.

ADVANCED ORCHESTRA (H) WAMS	Course Code: 957 957A/957B/957C	Credits: 1.0	All Grades
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Prerequisite Successful audition. Students in this course form the representative string performing group for the school. Emphasis is placed on the sequential development of advanced technical, ensemble, and disciplinary skills necessary for refined rehearsal and performance both in and out of school. Based on successful completion of sequential concepts for each level, students will continue to learn advanced musical concepts. Students must meet both the school day and outside of the school day participation requirements to receive credit for the course.

CHAMBER STRINGS (H)	Course Code: 958	Credits: 1.0	All Grades
WAMS	958A/958B/958C		

Prerequisite is a successful audition. Corequisite, Schools may require membership in orchestra or advanced orchestra class. The string ensemble class is designed to meet specific needs and/or interests. Content includes study of the appropriate ensemble literature, pedagogical techniques, and rehearsal performance artistry. Instrumentation of the group is at the discretion of the instructor. Students must meet both the school day and outside of the school day participation requirements to receive credit for the course.

MUSIC TECHNOLOGY & MIXING 1 * (H)	Course Code: 963	Credits: 0.5	All Grades
WAMS	963A/963B/963C		

Students will explore the techniques used in modern music production using the program Logic Pro X. Students will learn basic mixing techniques, songwriting techniques, how to sample and will learn how to use sound effects. Students will also learn basic troubleshooting, signal flow and session organization skills.

MUSIC TECHNOLOGY & MIXING 2 * (H)	Course Code: 964	Credits: 0.5	All Grades
WAMS	964A/964B/964C		

Prerequisite is an attainment of beginning level skills and permission of instructor. Students will explore the use of computers and other electronic technologies in music including: Musical Instrument Digital Interface (MIDI), analog and digital synthesis, sequencing, acoustics, sound processing, and electronic musical composition using the latest music industry software and the internet. Students will explore further techniques used in modern music production using Logic ProX.. Students will learn intermediate level mixing techniques, songwriting techniques and will dive deeper into the world of sampling. Students will also learn music production terminology, will learn more about signal flow and modern music promotion resources.

MUSIC PRODUCTION & ENGINEERING I * (H)	Course Code: 965	Credits: 0.5	All Grades
WAMS	965A/965B/965C		

Students design and produce audio content for the kinds of real-world production projects they might expect in their career using the programs Pro Tools and Ableton. Using industry standard software such as Pro Tools and Ableton Live, students will learn the ins and outs of each software and how to produce/mix in each.

MUSIC PRODUCTION & ENGINEERING 2 (H)

Course Code: 966
966A/966B/966C

Credits: 0.5

All Grades

WAMS

Prerequisite is an attainment of beginning level skills and permission of the instructor. Ableton and ProTools Students design and produce audio content for the kinds of real-world production projects they might expect in their career. Students are introduced to techniques and applications that are essential for pursuit of a variety of professional opportunities in the areas of sound design and audio production for film, video games, broadcast media, as well as all types of music production. Through in-studio classroom experience, hands-on project work, you will: develop an informed and critical aesthetic vision; gain a thorough knowledge and understanding of complex technical systems; learn to collaborate effectively with others in numerous musical settings through participation as an engineer and producer; learn to define quality using both musical and technical criteria, and to apply those criteria to your work and to the work of others; and refine your communication and time-management skills in the context of multidisciplinary productions.

ADVANCED MUSIC PRODUCTION TECHNIQUES 1 (H)

Course Code: 967
967A/967B/967C

Credits: 1.0

All Grades

WAMS

Students must have the recommendation of the instructor to take this course. In this advanced recording class, explore sophisticated ensemble microphone techniques and applications, and revisit and reinforce professional session protocol. Advanced drum miking, session flow, documentation, and microphone choice and comparisons are demonstrated. Program applications used in this course are Ableton, Pro Tools, and Logic ProX.

MUSIC THEORY 1 * (H) C, K, W, WAMS

Course Code: 969
969A/969B/969C

Credits: 0.5

All Grades

Prerequisite is students must have taken a performance class or instrument before this course or recommendation of the instructor. Emphasis is placed on developing and understanding basic music theory skills. Course content includes recognizing and notating: all major and minor scales, rhythms in simple and compound meters, and triadic chord structures. Composition skills in standard notation of simple melodies, with accompanying chords and keyboard performance of simple tunes, may also be included. Students will become acquainted with appropriate musical terms.

MUSIC THEORY 2 * (H) C, K, W, WAMS

Course Code: 970
970A/970B/970C

Credits: 0.5

All Grades

Prerequisite is Music Theory or recommendation of the instructor. Emphasis is placed on developing and understanding basic music theory skills. Course content includes recognizing and notating: all major and minor scales, rhythms in simple and compound meters, and triadic chord structures. Composition skills in standard notation of simple melodies, with accompanying chords and keyboard performance of simple tunes, may also be included. Students will become acquainted with appropriate musical terms.

H: Humanities • S: STEM • WL: World Languages • PW: Physical Wellness

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AP MUSIC THEORY * (H)
C, K, W, WAMS**Course Code: 973**
973A/973B/973C**Credits: 0.5****All Grades**

Prerequisite is Music Theory 1 & 2 or equivalency exam. The purpose of this course is to prepare students to take the Advanced Placement Music Theory examination, with college credit and/or placement being awarded if a qualifying score is achieved. Students are given a solid foundation in intervals, pitch patterns, metric/rhythmic patterns, chords, and the terms that are part of a basic understanding of reading, performing, and listening to music. Analysis, elementary composition, aural skills, sight-singing, and keyboard harmony will also be studied. Students who complete this course are encouraged to take the associated Advanced Placement examination and may earn college credit if a qualifying score is achieved.

Visual Arts Program Course Descriptions

FOUNDATIONS OF ART 1 * (H) **Course Code: 900** **Credits: 0.5** **All Grades**
C, K, W, WAMS, WCA, SS

This is a basic art class that covers the elements and principles of design. Students will learn various drawing techniques to create the illusion of three dimensional spaces on a two dimensional surface using two and one point perspective and develop as well as enhance existing drawing skills so that the student can draw more realistically. This will be achieved through various mediums and values of shading in pencil and colored pencil. Ideas will be developed through primary sketches to create larger compositions. The students will learn how to mix colors using all the mediums. Various artists and works of art associated with these artists will be discussed and used as a basis for art works and projects produced in class. Students will be able to analyze and evaluate their works of art through reflection, evaluation and assessment. Although this course is highly recommended for students pursuing a visual art path, it is not a prerequisite for any other art courses.

FOUNDATIONS OF ART 2 * (H) **Course Code: 908** **Credits: 0.5** **All Grades**
C, K, W, WAMS, WCA, SS

This is a basic art class that covers the elements and principles of design. Students will apply the knowledge of the elements and principles of designs as well as previously developed skills to work on advanced art lessons. They will be able to identify significant artists and their art works and be able to exemplify the elements and principles of design used in their artworks as seen in other artists' paintings, drawings, sculptures, etc. They will further their skills with painting and drawing and be able to combine two or more mediums to create an artwork in a successful composition. Their work will include analyzing, evaluating, reflecting and assessing. Although this course is highly recommended for students pursuing a visual art path, it is not a prerequisite for any other art courses.

VISUAL COMMUNICATIONS **Course Code: 1009** **Credits: 1.0** **All Grades**
DESIGN 1 (H) **1009A/1009B/1009C**
C, K, W, WAMS, SS

Formerly known as Graphic Arts. Develop and apply techniques in visual communication through the use of traditional and electronic media. Create original artworks for a variety of intended purposes such as personal, commercial, informational, social, cultural and environmental. Develop an understanding of ways in which artists communicate meaningful ideas for a specific purpose or intent. Become familiar with ethical issues related to the field of visual communications. Maintain a traditional and non-traditional sketchbook in addition to compiling a beginning visual communications portfolio.

**VISUAL COMMUNICATIONS
DESIGN 2 (H)**
C, K, W, WAMS

Course Code: 1010
1010A/1010B/1010C

Credits: 1.0

All Grades

Formerly known as Graphic Arts 2. Prerequisite is Visual Communications 1. Create original works that express depth of thought and complex ideas through visual communication. Use a variety of 2-D, 3-D, and 4-D traditional and electronic media to communicate ideas related to personal, commercial, informational, social, political, cultural, spiritual, or environmental issues. Work with design components, consider technical aspects and focus on ways to interact with the viewer in communication of ideas. Maximize creative approaches and take into account the parameters of a client-driven environment. Conduct oral presentations and critiques and compile a required portfolio based on evidence of content, design quality, and technical skill. Address ethical issues related to the field of visual communications.

**ADVANCED VISUAL
COMMUNICATIONS DESIGN (H)**
C, K, W, WAMS

Course Code: 1011
1011A/1011B/1011C

Credits: 1.0

All Grades

Prerequisite is Visual Communications 2. Refine technical skills and develop a personal style in an advanced study of visual communications. Exhibit initiative, commitment, and an openness to new approaches and conduct an in-depth exploration of a specific idea or theme. Consider aesthetics and issues related to the influence of mass media and visual culture in the development of personal artistic style, and use of symbolism and content. Compile a required final portfolio evidencing effective content, quality, concentration, and breadth of experience. Arrange and present an exhibition of personal artwork. Address ethical issues related to the field of visual communications.

DRAWING 1 (H)
C, K, W, WAMS, WCA, E

Course Code: 902
902E/9031

Credits: 1.0

All Grades

This is a beginning drawing course that will teach the basic steps and techniques used in drawing from observation. Students will develop confidence and drawing skills to express visual facts. Emphasis will be placed on perspective and structure. This course provides an in-depth exploration of a variety of tools and materials and the time needed to refine skills.

DRAWING 2 (H)
C, K, W, WAMS, WCA

Course Code: 909/909E

Credits: 1.0

All Grades

Students will continue to refine their drawing skills, along with the organization of 2-dimensional surfaces, through observational studies of the figure and the environment. A variety of drawing media will be used.

PAINTING 1 (H) **Course Code: 9071** **Credits: 1.0** **All Grades**

C, K, W, WAMS, WCA, E, SS

Painting courses provide a foundation in painting using a variety of techniques and media (such as watercolor, tempera, oils, acrylics), emphasizing observation and interpretation of the visual environment, life drawing, and imaginative painting. These courses typically include applying the elements of art and principles of design, along with a study of art and artists from a worldwide perspective, and instruction in the critique process.

PAINTING 2 (H) **Course Code: 9072** **Credits: 1.0** **All Grades**

C, K, W, WAMS, WCA

Painting 2 uses and refines a variety of techniques and media, emphasizing observation and interpretation of the visual environment, life drawing, and imaginative painting. The elements of art and principles of design are applied, along with a study of art and artists from a worldwide perspective, and instruction in the critique process. Advanced courses may encourage students to refine their creative processes and develop their own artistic styles following and breaking from traditional conventions.

SCULPTURE 1 * (H) **Course Code: 904** **Credits: 0.5** **All Grades**

C, K, W, WAMS, SS

904E / 9081

Prerequisite is permission from the instructor. Practice and apply three-dimensional design and sculpture techniques. Explore a variety of materials and approaches to create meaningful sculptures related to the theme of perceptions of self. Think creatively and critically to meet challenges and solve problems in innovative ways. Study the history of sculpture and leading contemporary sculptors to inform artmaking. Compile and maintain a required sculpture portfolio.

SCULPTURE 2 * (H) **Course Code: 911** **Credits: 0.5** **All Grades**

C, K, W, WAMS

911E / 9082

Prerequisite is Sculpture 1. Engage in advanced study of sculpture to acquire and apply in-depth knowledge of three-dimensional processes. Explore form, volume and material to create original sculptures in response to social and contemporary issues. Study historical and cultural styles and leading artists in the field to inform artmaking. Improve understanding and production through critique and evaluation processes. Use professional exhibition techniques to arrange a comprehensive display of personal work. Compile a culminating portfolio evidencing expressive content, quality, concentration, and breadth of experience.

CERAMICS 1 * (H) **Course Code: 906/9021** **Credits: 0.5** **All Grades**

C, K, W, WAMS, SS

Prerequisite permission of the instructor. Practice and apply three-dimensional design and ceramic techniques. Explore a variety of materials and approaches to create functional and decorative ceramic objects related to the theme of perceptions of self. Think creatively and critically to meet challenges and solve problems in innovative ways. Study the history of ceramics and leading contemporary ceramic artists to inform artmaking. Compile and maintain a required ceramic art portfolio.

CERAMICS 2 * (H)

Course Code: 9022

Credits: 0.5

All Grades

C, K, W, WAMS

Prerequisite is Ceramics 1. Engage in advanced study of ceramics to acquire and apply in-depth knowledge of ceramic processes. Explore form and material to sharpen techniques and to create original ceramic objects in response to social and contemporary issues. Study historical and cultural styles and leading practitioners to inform artmaking. Improve understanding and production through critique and evaluation processes. Use professional exhibition techniques to arrange a comprehensive display of personal work. Compile a culminating ceramic art portfolio evidencing expressive content, quality, concentration, and breadth of experience.

ANIMATION 1 * (H)Course Code: 1012
1012A/1012B/1012C

Credits: 0.5

All Grades

WAMS

Prerequisite is Visual Communications Design 1. Learn to use 2D and 3D computer software to create animation. Create personally expressive animations and communicate visually in effective ways through the use of modeling, story and character development, and lifelike motion. Become familiar with animation related careers such as game design, animation, film and television special effects.

VISUAL ARTCourse Code: 1013
1013A/1013B/1013C

Credits: 0.5

All Grades

WORKPLACE EXPERIENCE * (H)

WAMS

Visual Arts—Workplace Experience courses provide students with work experience in a field related to visual arts. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the workplace.

MULTIMEDIA ART * (H)Course Code: 1014
1014A/1014B/1014C

Credits: 0.5

All Grades

C, K, W, WAMS, E, SS

Formerly known as Computer-Assisted Art, Multimedia Art courses emphasize applying the fundamental processes of artistic expression for the purpose of creating multimedia productions that explore contemporary social, cultural, and political issues. These courses include the history and development of multiple forms of media including a combination of text, audio, still images, animation, video, and interactive content. These courses provide students with the opportunity to develop foundational skills and knowledge while they also become more adept in cinema, video, digital live production, and electronic time-based media. Students engage in critique of their multimedia work, that of others, and the multimedia video, digital, and live production work of artists for the purpose of reflecting on and refining work for presentation.

URBAN ART * (H) C, K, W, WAMS, E	Course Code: 1015 1015A/1015B/1015C	Credits: 0.5	All Grades
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Requires a recommendation from instructor and parental permission slip. This course is designed to take place in and around the community as well as in the classroom in order to gain a greater understanding of the relationship that exists between the arts and the community and to utilize every opportunity to explore art and culture. Students will experiment and participate in a series of reflective exercises with graffiti and street art techniques. The class will contribute their outcomes to a collaborative piece.

ADVERTISING DESIGN (H) WAMS	Course Code: 1016 1016A/1016B/1016C	Credits: 1.0	All Grades
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Advertising Design courses emphasize applying the fundamental processes of artistic expression used in the fields of advertising and commercial art for the purpose of visual communication. These courses offer practical experiences in generating advertisements, commercial art, logos, executing layouts, illustrations, displays, lettering, and works with a variety of media, techniques, and processes. They also include preparing artwork for reproduction and presentation. Advertising Design courses present an historical and contemporary view of advertising art and commercial art. Students learn and practice responding to their own art and that of others including professional designers through analysis, critique, and interpretation for the purpose of reflecting on and refining work.

AP DRAWING (H) (FORMERLY STUDIO ART AP) C, K, W, WAMS	Course Code: 1017 1017A/1017B/1017C	Credits: 1.0	All Grades
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Prerequisite is permission from the instructor. This course is designed for highly motivated, advanced art students who have demonstrated a serious interest in the study of art. Ideally suited for students who work well independently, the course will focus on the preparation of a drawing portfolio of artworks that exhibit quality, concentration in an area of visual interest or problem solving, and breadth of experience in the formal, technical, and expressive means of an artist. The drawing portfolio addresses a broad interpretation of drawing issues including painting, printmaking, studies for sculpture, some forms of design, and abstract and observational works. Students will prepare and submit drawing portfolios based on objectives that reflect the format and requirements established by the College Board for Advanced Placement Studio Art. Students who complete this course are encouraged to take the associated Advanced Placement examination and may earn college credit if a qualifying score is achieved.

**AP 3D ART AND DESIGN (H)
WAMS****Course Code: 1018
1018A/1018B/1018C****Credits: 1.0****All Grades**

Prerequisite is Design 1 and 2 or permission from the instructor. This course is designed for highly motivated, advanced art students who have demonstrated a serious interest in the study of art. Ideally suited for students who work well independently, the course will focus on the preparation of a two-dimensional design portfolio of artworks that exhibit quality, concentration in an area of visual interest or problem solving, and breadth of experience in the formal, technical, and expressive means of an artist. The two-dimensional portfolio may include, but is not limited to, forms of artwork in graphic design, typography, digital imaging, photography, collage, fabric design, weaving, illustration, painting, and printmaking. Students will submit two-dimensional portfolios based on objectives that reflect the format and requirements established by the College Board for Advanced Placement Studio Art. Students who complete this course are encouraged to take the associated Advanced Placement examination and may earn college credit if a qualifying score is achieved.

Theater and Performing Arts Program Course Descriptions

DRAMA 1 (H) **Course Code: 085/085E Credits: 1.0** **All Grades**
C, K, W, WAMS, SS

Students will gain an understanding of Artistic Perception, using the language and skills of theatre, Creative Expression, creating theatre to communicate meaning and intent, Aesthetic Valuing, analyzing theatre for meaning and intent as well as its ability to communicate effectively, and Connections, Relationships and Applications, developing lifelong skills such as creative problem-solving and planning for college and careers in the theatre, the arts, the communications and entertainment fields. This course is also offered in the English Department.

THEATER 101 * (H) **Course Code: 080F/080G Credits: 0.5** **All Grades**
WAMS

A survey of theatre as art, as entertainment, and as cultural identifier. By the end of the course, students will be able to critique and analyze different theatrical styles from a variety of time periods, as well as the basics of performance work. This class is a prerequisite to taking all other theatre classes.

TECHNICAL THEATER 1 (H) **Course Code: 871 Credits: 1.0** **All Grades**
WAMS

Students will identify areas of special interest in technical theatre. Emphasis is placed on in-depth study, assumption of leadership roles, and application of self-assessment to improve skills and foster artistic growth. Participation in co-curricular activities and productions may be required.

TECHNICAL THEATER 2 (H) **Course Code: 872 Credits: 1.0** **All Grades**
WAMS

In Technical Theatre 2 students are focused on gaining skills needed for practical work experience in a professional Theater. Focus is placed on in-depth study, assumption of leadership roles, knowledge of applications, equipment and application of self-assessment to improve skills and foster artistic growth. Participation in co-curricular activities and productions may be required.

STAGE MANAGEMENT 1 * (H) **Course Code: 861 Credits: 1.0** **All Grades**
WAMS

Stage Management 1 will focus on the skills and mechanics necessary to contribute to the production process as a stage manager with a focus on organization, leadership and communication.

STAGE MANAGEMENT 2 * (H) **Course Code: 862 Credits: 1.0** **All Grades**
WAMS

Stage Management 2 provides students with a general overview of the administrative and management functions of an arts organization as well as an introductory look at the responsibilities and process of stage management.

H: Humanities • S: STEM • WL: World Languages • PW: Physical Wellness

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SHAKESPEARE 1 (H) **Course Code: 881** **Credits: 1.0** **All Grades****WAMS**

This course examines the principal plays of Shakespeare. It engages students in his timeless characters, his riveting plots, and his universal human themes.

SHAKESPEARE 2 (H) **Course Code: 882** **Credits: 1.0** **All Grades****WAMS**

It introduces students to his principal dramatic genres (history, comedy, tragedy, and romance) and his extraordinary dramatic poetry and sonnets, and it investigates the historical and social contexts in which he wrote, placing emphasis on his innovations and influence in the realms of language, literature, and theater.

SHAKESPEARE 3 (H) **Course Code: 883** **Credits: 1.0** **All Grades****WAMS**

Shakespeare 3 course explores in depth the structure, elements, and style of dramatic compositions, and, as an extension, how the dramatic literature influenced theatrical production and acting styles throughout history.

THEATER PRODUCTION 1 (H) **Course Code: 087G** **Credits: 0.5** **All Grades****WAMS**

Students apply technical theatre knowledge and skills by participating in practical aspects of construction, lighting, sound, and artistic leadership within the production process. Participation in co-curricular activities and productions may be required to receive credit for this course.

THEATER PRODUCTION 2 (H) **Course Code: 877/087H** **Credits: 1.0** **All Grades****WAMS**

Students apply technical theatre knowledge and skills by participating in practical aspects of construction, lighting, sound, and artistic leadership within the production process. Students will collaborate to execute a variety of technical designs safely and effectively, and develop management and public relation skills for the purpose of production. Participation in co-curricular activities and productions may be required to receive credit for this course.

MUSICAL THEATER 1 (H) **Course Code: 831** **Credits: 1.0** **All Grades****WAMS**

Students will explore performance techniques specific to musical theatre including acting, singing, and movement. Students will examine classic and contemporary musical theatre styles, structure, and content with an overall emphasis on performance. Participation in co-curricular activities and performances may be required to receive credit for this course.

MUSICAL THEATER 2 (H)**Course Code: 832****Credits: 1.0****All Grades****WAMS**

Students will focus on performance techniques specific to musical theatre including acting, singing, and movement. Students will examine classic and contemporary musical theatre styles, structure, and content with an overall emphasis on performance. Participation in co-curricular activities and performances may be required to receive credit for this course.

INDEPENDENT STUDY THEATER (H)**Course Code: 832****Credits: 1.0****All Grades****WAMS**

Students will focus on performance techniques specific to musical theatre including acting, singing, and movement. Students will examine classic and contemporary musical theatre styles, structure, and content with an overall emphasis on performance. Participation in co-curricular activities and performances may be required to receive credit for this course.

ACTING 1 * (H)**Course Code: 821****Credits: 1.0****All Grades****WAMS**

Students will gain an understanding of Artistic Perception, using the language and skills of theatre, Creative Expression, creating theatre to communicate meaning and intent, Aesthetic Valuing, analyzing theatre for meaning and intent as well as its ability to communicate effectively, and Connections, Relationships and Applications, developing lifelong skills such as creative problem-solving and planning for college and careers in the theatre, the arts, the communications and entertainment fields.

ACTING 2 * (H)**Course Code: 822****Credits: 1.0****All Grades****WAMS**

Acting 2 is designed to build upon past theatre experiences and enhance skills. The class is aligned with the State Standards, including the five areas listed above in the beginning class description. Intermediate Drama will cover ensemble work/team work, movement, voice, scene and play analysis, scene work including an emphasis on objectives, obstacles, and acting techniques, improvisational skills, character analysis and performance, monologues, audition skills, and career paths.

DIRECTING 1 (H)**Course Code: 811/081E Credits: 1.0****All Grades****WAMS**

Directors develop their ability to communicate with actors to build and adjust their actors' performances. Directors cast actors and work on scenes for several weeks, bringing the actors to a professional level of performance.

DIRECTING 2 (H)**Course Code: 812/O812E Credits: 1.0****All Grades****WAMS**

Directing 1 is a prerequisite for this course. Directing 2 will focus on developing students' skills in translating a script into a final production. Directing courses enable each student to create an artistic vision and develop a personal aesthetic. These courses may expose students to different types of theatrical techniques and traditions. They also provide students with opportunities to direct the performances of others (either in scenes or in a full production).

JAZZ 1 (H)**Course Code: 8721****Credits: 1.0****All Grades****WAMS**

This is an introduction to Jazz Dance through beginning technique class. This is a participation course that requires students to be involved in warmups, movement combinations, evaluations, and discussions.

JAZZ 2 (H)**Course Code: 8722****Credits: 1.0****All Grades****WAMS**

Jazz Dance 2 includes strength, flexibility and conditioning technique and progressions including turns, kicks and leaps. Dancers will learn choreography to popular and age appropriate music of today along with vintage styles of Jazz.

JAZZ 3 (H)**Course Code: 8723****Credits: 1.0****All Grades****WAMS**

Jazz Dance courses provide students with ongoing training in jazz dance and emphasize improving students' technique. In Jazz dance 3 students will learn fun and trendy dance steps that are used in all forms of dance. It is a wonderful class to get a well-rounded variety of all dance steps.

TAP 1 (H)**Course Code: 8731****Credits: 1.0****All Grades****WAMS**

This is an introduction to Tap Dance through beginning class. This is a participation course that requires students to be involved with warmups, movement combinations, and discussions.

TAP 2 (H)**Course Code: 8732****Credits: 1.0****All Grades****WAMS**

An intermediate course designed for students who have had at least one year of Tap dance. Emphasis on fundamental skills and rhythms, time steps, footwork, short combinations and styling.

TAP 3 (H)**Course Code: 8733****Credits: 1.0****All Grades****WAMS**

Tap Dance courses provide students with ongoing training in tap dance and emphasize improving students' technique. Encourages freedom of exploration and self-expression.

BALLET 1 (H) **Course Code: 8741** **Credits: 1.0** **All Grades**

WAMS

This course introduces students to the fundamentals of classical ballet technique. Students participate in conditioning, movement exercises and dance phrases designed to increase knowledge and improve execution of ballet steps.

BALLET 2 (H) **Course Code: 8742** **Credits: 1.0** **All Grades**

WAMS

An intermediate course designed for students who have had at least one year of ballet experience. Further refinement of technique, alignment, strength, balance, and flexibility will be achieved through barre and floor work.

MODERN 1 (H) **Course Code: 8791** **Credits: 1.0** **All Grades**

WAMS

This contemporary form focuses on gaining an understanding of how the body moves, proper placement, alignment, and flexibility. This class explores different ways of using organic and creative movements, the floor and traveling through space.

MODERN 2 (H) **Course Code: 8792/879B** **Credits: 1.0** **All Grades**

WAMS

An intermediate course designed for students who have at least one year of modern dance experience. Students will refine modern dance technique through floor work and by studying various movements and styles relevant to current modern dance technique.

MODERN 3 (H) **Course Code: 8793** **Credits: 1.0** **All Grades**

WAMS

Modern Dance courses provide students with ongoing training in modern dance and emphasize improving students' technique. Encourages freedom of exploration and self-expression.

STYLES OF DANCE (H) **Course Code: 8751** **Credits: 0.5** **All Grades**

WAMS

Students will gain a basic knowledge of the history and application of many styles of dance. This will include but is not limited to Jazz, Tap, Modern, Ballet and Hip Hop. The styles of dance are up to the discretion of the instructor.

DANCE TECHNIQUES * (H) **Course Code: 875S** **Credits: 0.5** **All Grades**

WAMS

Dance Technique courses provide students with experience in one or more dance forms (e.g., modern, jazz, ballet, and tap). Initial classes are usually introductory in nature, while the more advanced classes concentrate on improving students' technique.

HIP HOP 1 * (H) **Course Code: 1024** **Credits: 0.5** **All Grades**

WAMS**1024A/1024B/1024C**

This high-energy introductory course will focus on the foundations and origins of Hip-Hop dance culture including street, commercial and freestyle forms. Students will be encouraged to step outside of the box by bringing their own individual style and personality to movements. Students will be challenged and encouraged to understand and apply historical and practical knowledge of Hip-Hop through class activities and performances.

HIP HOP 2 * (H) **Course Code: 1024** **Credits: 0.5** **All Grades**

WAMS**1022A/1022B/1022C**

This high-energy introductory course will focus on the foundations and origins of Hip-Hop dance culture including street, commercial and freestyle forms. Students will be encouraged to step outside of the box by bringing their own individual style and personality to movements. Students will be challenged and encouraged to understand and apply historical and practical knowledge of Hip-Hop through class activities and performances.

CHOREOGRAPHY 1 (H) **Course Code: 8771/877E** **Credits: 1.0** **All Grades**

WAMS

Students will explore key concepts of dance making with a focus on improvisation, composition, and choreographic processes and principles. Encourages freedom of exploration and self-expression.

CHOREOGRAPHY 2 (H) **Course Code: 8772** **Credits: 1.0** **All Grades**

WAMS

Students create choreography and work in collaboration with dancers to fulfill their creative objectives. The final dance piece is presented to the class and or audience. Encourages freedom of exploration and self-expression.

CHOREOGRAPHY 3 (H) **Course Code: 8773** **Credits: 1.0** **All Grades**

WAMS

Dance Choreography courses teach students how to apply choreographic principles and dance forms to create fully developed choreography for formal or informal presentations. These courses may also help students create dances with a beginning, middle, and conclusion. Critical analysis of the works of others and reflection skills on the learners own work are developed. Encourages freedom of exploration and self-expression.

H: Humanities • S: STEM • WL: World Languages • PW: Physical Wellness

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DANCE PERFORMANCE 1 (H)	Course	Code: Credits: 1.0	All Grades
WAMS	8781/878E		

Students will develop fundamental skills in dance through movement, placement, alignment, and technique, for selected dance forms which may include ballet, jazz, modern, tap, and social dances. Students will cultivate dance vocabulary, study dance history, and develop improvisational and performance skills. Participation in co-curricular activities and performances may be required to receive credit for this course.

DANCE PERFORMANCE 2 (H)	Course	Code: Credits: 1.0	All Grades
WAMS	8782/878B		

Students will develop fundamental skills in dance through movement, placement, alignment, and technique, for selected dance forms which may include ballet, jazz, modern, tap, and social dances. Students will cultivate dance vocabulary, study dance history, and develop improvisational and performance skills. Participation in co-curricular activities and performances may be required to receive credit for this course.

DANCE PERFORMANCE 3 (H)	Course	Code: Credits: 1.0	All Grades
WAMS	8783/878C		

Students will develop fundamental skills in dance through movement, placement, alignment, and technique, for selected dance forms which may include ballet, jazz, modern, tap, and social dances. Students will cultivate dance vocabulary, study dance history, and develop improvisational and performance skills. Participation in co-curricular activities and performances may be required to receive credit for this course.

DANCE FOR MUSICAL THEATRE (H)	Course Code: 1020	Credits: 1.0	All Grades
WAMS	1020A/1020B/1020C		

This course is designed to offer instruction in techniques of Broadway dance. Students will apply a variety of theatrical styles such as jazz and tap. Students will also increase their knowledge of Broadway's most high-profile choreographers and their famous works. Students will gain the ability to apply dance technique and learn to express musicality in a physical way through class activities and performances.

Health and Physical Education Department

Mr. Joseph R. Gorman, Supervisor of Health and Physical Education

WPS Health and Physical Education courses are designed to support and guide students' personal and academic achievement through development of skills needed to: Live a healthy and balanced lifestyle; access, evaluate and use information from various sources to achieve overall health and well-being; comprehend concepts related to health, wellness and fitness and implement realistic plans for lifelong healthy and balanced living; make plans and take actions that lead to healthy and balanced living for themselves and for the world around them.

The WPS Health and Physical Education curriculum is a standards-based program that promotes student understanding that health and fitness are lifelong responsibilities to self and others that promote personal wellness and prevent disease.

Each WPS Health and Physical Education course is designed to provide students with the basis for continued methods of developing knowledge, concepts, skills, behaviors, and attitudes related to health and well-being. All WPS Health and Physical Education courses include medically accurate, developmentally and culturally appropriate content in a planned, sequential, comprehensive health and physical education curriculum aligned to the Connecticut State Department of Education's Healthy and Balanced Living Curriculum Framework. Content includes: Nutrition, Injury Prevention, Wellness, Substance Abuse Prevention, Disease Prevention, Mental Health, Fitness, Lifelong Recreation Skills and Sexual Health Education. The WPS Health and Physical Education curriculum also complies with Connecticut General Statutes (CGS) for required content of Alcohol, Tobacco and Other Drugs (10-19a), Acquired Immune Deficiency Syndrome (10-19b) and Sexual Health Education (10-16f).

Course Sequence

Grade 9	4 Credit Honors Pathway
Health, Wellness and Personal & Conditioning 1 Lifetime Health, Wellness and Recreation Skills 1	Health, Wellness and Personal & Conditioning 2 Lifetime Health, Wellness and Recreation Skills 2

H: Humanities • S: STEM • WL: World Languages • PW: Physical Wellness

C: Crosby • K: Kennedy • W: Wilby • WAMS: Waterbury Arts Magnet • WCA: Career Academy • SS: State Street • E: Enlightenment

Health and Physical Education Program Course Descriptions

HEALTH, WELLNESS AND PERSONAL CONDITIONING 1 * (PW) Course Code: 840 Credits: .5 Grade 9

C, K, W, WAMS, WCA, E, SS

HPE 840 is a dual-purpose Grade 9 course in which students acquire the knowledge and skills necessary to design and execute their own personalized fitness conditioning program while exploring contemporary issues surrounding Nutrition, Personal Health, Mental Health, Personal Safety, Behavioral Health, Substance Abuse Prevention, and Human Sexuality. Students will understand, compare and contrast, and then apply principles of Health and Wellness to develop decision-making skills, habits and attitudes that positively impact them physically, intellectually and socially/emotionally.

LIFETIME HEALTH, WELLNESS AND RECREATION SKILLS 1 * (PW) Course Code: 842 Credits: 0.5 Grade 9

C, K, W, WAMS, WCA, E, SS

HPE 842 is a dual purpose Grade 9 course designed to offer a fun, flexible menu of social and recreational skill development activities as chosen with students, and adjusted to their motivational levels and skill abilities. This course puts particular emphasis on recreational and lifetime activities that prepare students for lifelong social recreation, healthy habits and healthy lifestyles, while exploring contemporary issues surrounding Nutrition, Personal Health, Mental Health, Personal Safety, Behavioral Health, Substance Abuse Prevention, and Human Sexuality. Students will understand, compare and contrast, and then apply principles of Health and Wellness to develop decision-making skills, habits and attitudes that positively impact them physically, intellectually and socially/emotionally. In addition, HPE 842 students will receive training in Community Responder Level First Aid, CPR, and AED management.

HEALTH, WELLNESS AND PERSONAL CONDITIONING 2 * (PW) Course Code: 841 Credits: .5 Grade 10

C, K, W, WAMS, WCA, E, SS

HPE 841* is a dual-purpose Grade 10 course in which students refine the knowledge and skills necessary to design and execute their own personalized fitness conditioning program while exploring contemporary issues surrounding Nutrition, Personal Health, Mental Health, Personal Safety, Behavioral Health, Substance Abuse Prevention, and Human Sexuality. Students will understand, compare and contrast, and then apply principles of Health and Wellness to apply decision-making skills, habits and attitudes that positively impact them physically, intellectually and socially/emotionally.

LIFETIME HEALTH, WELLNESS AND RECREATION SKILLS 2 * (PW) **Course Code: 843** **Credits: .5** **Grade 10**
C, K, W, WAMS, WCA, E, SS

HPE 843 is a dual purpose Grade 10 course designed to offer a fun, flexible menu of social and recreational skill development activities as chosen with students, and adjusted to their motivational levels and skill abilities. This course puts particular emphasis on recreational and lifetime activities that prepare students for lifelong social recreation, healthy habits and healthy lifestyles, while exploring contemporary issues surrounding Nutrition, Personal Health, Mental Health, Personal Safety, Behavioral Health, Substance Abuse Prevention, and Human Sexuality. Students will understand, compare and contrast, and then apply principles of Health and Wellness to practice decision-making skills, habits and attitudes that positively impact them physically, intellectually and socially/emotionally.

INDEPENDENT PROJECT FOR ACES/ATOMS /SOAR * (PW) **Course Code: 844** **Credits: .1** **All Grades**
C, K, W, WAMS

Accommodation for HS Graduation Exclusive to ACES/ATOMS/SOAR students. HPE 844 is designed to allow students enrolled in the ACES/ATOMS/SOAR programs to fulfill their Health and Physical Education Carnegie Unit graduation requirement without having to compromise scheduling of additional laboratory courses that they are required to take per program standards. This independent research project satisfies 0.1 Carnegie Units per semester, which may be applied to HPE 840 and/or HPE 842 ONLY. Projects will be established and agreed upon in advance and in writing through a collaboration between the student and the Health/Physical Education teacher that they report to for the remaining four days per week. Research project expectations will be in writing, contain a comprehensive grading rubric, and specify a timeline for completion in order to earn applicable credit.

INDEPENDENT PROJECT FOR ACES/ATOMS /SOAR * (PW) **Course Code: 845** **Credits: .1** **All Grades**
C, K, W, WAMS

Accommodation for HS Graduation Exclusive to ACES/ATOMS/SOAR students. HPE 845 is designed to allow students enrolled in the ACES/ATOMS/SOAR programs to fulfill their Health and Physical Education Carnegie Unit graduation requirement without having to compromise scheduling of additional laboratory courses that they are required to take per program standards. This independent research project satisfies 0.1 Carnegie Units per semester, which may be applied to HPE 841 and/or HPE 843 ONLY. Projects will be established and agreed upon in advance and in writing through a collaboration between the student and the Health/Physical Education teacher that they report to for the remaining four days per week. Research project expectations will be in writing, contain a comprehensive grading rubric, and specify a timeline for completion in order to earn applicable credit.

Health and Physical Education Elective Course Descriptions

All Health and Physical Education Elective courses are semester-long half credit courses. Electives may not be substituted for HPE 840, HPE 841, HPE 842, HPE 843, HPE 844 or HPE 845.

WOMEN'S HEALTH AND WELLNESS * (PW)

Course Code: 846**Credits: 0.5****C, K, W, WAMS, SS**

HPE 846 is designed to provide female students with opportunities to explore concepts in depth, analyze and solve real-life problems, and work cooperatively on tasks that develop and enhance their conceptual understanding of women's health issues. It provides students with the knowledge and skills to lead to lifelong positive attitudes and behaviors related to health. The major goal of this course is the development of health literacy within four unifying concepts:

- Acceptance of personal responsibility, including responsibility for personal lifelong health, acceptance of the idea that the individual has some control over health, and incorporation of health-related knowledge into everyday behavior
- Respect for and promotion of the health of others, including an understanding and acceptance of the influence of behavior on the health and well-being of others, of people on the environment, and of the environment on the health of groups and individuals
- An understanding of the process of growth and development, including the importance of both universal and individual aspects of physical, mental, emotional, and social growth and development
- Informed use of health-related information, products, and services, including the ability to select and use health-related information, products, and services carefully and wisely

The curriculum addresses these four unifying ideas with content from nine major areas of health education: Personal Health, Environmental Health, Consumer and Community Health, Family Living, Injury Prevention and Safety, Individual Growth and Development, Alcohol, Tobacco, and Other Drugs, Communicable, Chronic Diseases, and Nutrition.

MEN'S HEALTH AND WELLNESS * (PW) **Course Code: 847** **Credits: 0.5**

C, K, W, WAMS, SS

HPE 847 is designed to provide male students with opportunities to explore concepts in depth, analyze and solve real-life problems, and work cooperatively on tasks that develop and enhance their conceptual understanding of women's health issues. It provides students with the knowledge and skills to lead to lifelong positive attitudes and behaviors related to health. The major goal of this course is the development of health literacy within four unifying concepts:

- Acceptance of personal responsibility, including responsibility for personal lifelong health, acceptance of the idea that the individual has some control over health, and incorporation of health-related knowledge into everyday behavior
- Respect for and promotion of the health of others, including an understanding and acceptance of the influence of behavior on the health and well-being of others, of people on the environment, and of the environment on the health of groups and individuals
- An understanding of the process of growth and development, including the importance of both universal and individual aspects of physical, mental, emotional, and social growth and development
- Informed use of health-related information, products, and services, including the ability to select and use health-related information, products, and services carefully and wisely

H: Humanities • S: STEM • WL: World Languages • PW: Physical Wellness

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The curriculum addresses these four unifying ideas with content from nine major areas of health education: Personal Health, Environmental Health, Consumer and Community Health, Family Living, Injury Prevention and Safety, Individual Growth and Development, Alcohol, Tobacco, and Other Drugs, Communicable, Chronic Diseases, and Nutrition.

SEXUAL HEALTH AND HUMAN DEVELOPMENT * (PW)

Course Code: 848

Credits: 0.5

C, K, W, WAMS, SS

HPE 848 is designed to provide students with opportunities to explore concepts in depth, analyze and solve real-life problems, and work cooperatively on tasks that develop and enhance their conceptual understanding of sexual and reproductive health issues. It provides students with the knowledge and skills to lead to lifelong positive attitudes and behaviors related to sex, relationships and reproductive health. The major goal of this course is the development of health literacy within four unifying concepts:

- Acceptance of personal responsibility, including responsibility for personal lifelong reproductive health, acceptance of the idea that the individual has control over their own health, and incorporation of health-related knowledge into everyday behavioral choices, most notably choices in response to issues related to sexuality
- Respect for and promotion of the health of self and others, including an understanding and recognition of the powerful influences of sexual behavior on the physical, mental and social/emotional health and well-being of oneself and others
- An understanding of the process of growth and development, including the importance of both universal and individual aspects of physical, mental, emotional, and social growth and development throughout the life span from 'in utero' to advanced age
- Informed use of health-related information, products, and services, including the ability to identify and carefully and wisely access health-related information, and services that are present in the Greater Waterbury community.

POSITIVE PARENTING FOR HEALTHY CHILD DEVELOPMENT * (PW)

Course Code: 849

Credits: 0.5

C, K, W, WAMS, SS

HPE 849 is designed to provide students with opportunities to examine real-life challenges while enhancing their conceptual understanding of healthy child development and effective parenting skills to find solutions to common problems. Particular focus will be attributed to (1) strengthening student understanding of the process of child cognitive, social and emotional growth and development from "in utero" to age six (6), and (2) guiding students to properly identify quality child health and wellness information, products and services, as well as access parent support services present in the Greater Waterbury community.

PROFESSIONAL RESCUER LEVEL **Course Code: 850** **Credits: 0.5**
FIRST AID, CPR AND AED
RESPONSE SKILLS * (PW)
C, SS

HPE 850 is designed to offer the opportunity to participate in an American Red Cross approved course taught by a certified ARC Instructor and enable students to achieve Professional Rescuer level certification in First Aid, Cardiopulmonary resuscitation (CPR) for adults, children and infants and automated external defibrillator (AED) management. Students will acquire knowledge and pre-vocational skills in preparation for a wide variety of health-related careers. Particular emphasis will be placed on building students' self-confidence as effective first responders to multi-hazard emergencies with the acquired information/skills to save lives, if necessary. Official ARC First Aid, Adult, Child and Infant CPR certification (optional) available on a fee basis.

NUTRITION, WEIGHT MANAGEMENT **Course Code: 851** **Credits: 0.5**
AND HUMAN PERFORMANCE * (PW)
C, K, W, WAMS, E, SS

HPE 851 is designed to offer students a highly specialized range of learning activities in order to promote healthy sports nutrition that meets the needs of athletic lifestyles. This course helps student-athletes develop effective natural techniques, strategies and eating habits that support personal conditioning leading to increased athletic performance and prescriptive weight management. Particular emphasis on the use of natural food diets and training techniques and student avoidance of performance-enhancing products and substances to ensure long-term health and safety will be pervasive in all aspects of this course. Interdisciplinary instruction focusing on developmentally appropriate literacy and numeracy skills embedded within Values and Character Education themes are integral instructional delivery systems for this elective.

SPORTS INJURY MANAGEMENT * (PW) **Course Code: 852** **Credits: 0.5**
WCA

HPE 852 is designed to offer students a specialized range of knowledge and treatment activities in order to promote personal fitness and help prevent/mitigate/treat/recover from sports injuries. This course helps students develop effective natural techniques, strategies and habits for personal conditioning and nutrition that increase resistance to, and assist therapeutic management of, sports-related injuries. Particular emphasis on natural training and rehabilitation techniques will be pervasive in this course.

TEAM SPORTS**Course Code: 853****Credits: 0.5****COMPETITION SKILLS * (PW)****C, K, W, WAMS, E, SS**

HPE 852 is best suited to those students who are highly skilled and highly motivated to participate in interscholastic athletics and/or intramural / recreational sports leagues. HPE 853 is designed to offer a physically demanding menu of sports skill development activities tailored to challenge athletes' team sports skill abilities and heightened interest as well as motivational drive to advance. This course puts particular emphasis on specific team sport skill development activities that prepare students for interscholastic competition, while exploring contemporary issues surrounding Nutrition, Personal and Mental Health, Safety, Substance Abuse, Human Growth and Development and Family Life Education. Students will understand, compare and contrast, and then apply principles of Health and Wellness to develop decision-making skills, habits and attitudes that positively impact them physically, intellectually and socially/emotionally.

BASIC LIFEGUARDING* (PW)**Course Code: 854****Credits: 0.5****C**

HPE 854 is designed to offer the opportunity to participate in an American Red Cross-approved course taught by a certified ARC Instructor and enable students to achieve certification in Basic Lifeguarding. Students will acquire knowledge and practice water rescue skills in preparation for employment as certified lifeguards in public and/or private aquatic recreational facilities including beaches, lakes, pools and water parks. Particular emphasis will be placed on building students' self-confidence as effective first responders to water rescue emergencies with the acquired information/skills to save lives, if necessary. Official ARC Lifeguard certification (optional) available on a fee basis.

ADVANCED BASKETBALL * (PW)**Course Code: 855****Credits: 0.5****C, K, W, WAMS, E, SS**

HPE 855 is designed to offer students a highly specialized range of competitive basketball skill development activities in order to promote participation in interscholastic and/or competitive athletics. Students will acquire knowledge and practice fundamental to advanced skills of the game of basketball. This course provides effective strategies for personal conditioning and skill development drills in preparation for game play, includes direct instruction on the official NAIA basketball rule book, and promotes participation both within school, and throughout the wider community in recreational basketball opportunities.

UNIFIED PHYSICAL EDUCATION * (PW) Course Code: 856 Credits: 0.5**C, K, W, WAMS**

HPE 856 Unified Physical Education is a special, half year course offering for selected juniors or seniors that extends the Unified Sports model into the instructional setting. This course is designed for those students looking to extend themselves to others of varying abilities and mobility, as well as provide peer coaching and an opportunity for socialization and inclusion in a physical activity setting. This course brings together junior/senior class students with athletes with special needs in an environment of learning, collaboration and fun. Students will be expected to collaboratively design and carry out modifications to activities and work with a partner on providing assistance to an athlete with special needs. Course enrollment for regular education students is restricted to juniors and seniors in good academic standing.

RESISTANCE TRAINING AND BODY SHAPING * (PW) Course Code: 857 Credits: 0.5**C, K, W, WAMS**

HPE 857 is designed to offer students a highly specialized range of conditioning and body shaping development activities in order to promote personal conditioning. Students will acquire knowledge and practice fundamental to advanced skills for safe and effective weight training as well as proper nutrition. This course helps students develop effective natural techniques, strategies and habits for personal conditioning leading to increased strength, muscle mass, cardiovascular endurance, flexibility, core development, increased speed and agility and prescriptive weight management. Particular emphasis on the use of natural training techniques and student avoidance of performance-enhancing products and substances to ensure long-term health and safety will be pervasive in all aspects of this course. Resistance training is a key component to developing and maintaining physical fitness over one's lifespan. This course is designed for those students who have a strong interest in increasing their skills, knowledge and understanding related to developing and instituting a personal resistance training program. Assessments will focus on students' understanding of physiological responses to a variety of training modes and will monitor their ability to create, execute and sustain a personalized training program.

EXPLORATIONS IN DANCE * (PW) Course Code: 858 Credits: 0.5**C, K, W, WAMS**

HPE 858 is designed to offer students fun and social rhythm and dance activities designed for increased cardiovascular endurance and heart-healthy weight management. The benefits of aerobic dance include increased cardiopulmonary efficiency, strengthened heart and lungs, improved circulation, lowered cholesterol levels, and stress and anxiety reduction.

Dance can be seen as exercise, a conduit for self-expression or a form of social communication. This course is designed for those students who have a strong interest in increasing their skills and knowledge related to a wide range of dance forms. Students will explore dance forms including: the Waltz, Fox Trot, Swing, Salsa, as well as Traditional and Western line dance as well as exploring and learning a number of other dances originating within a variety of ethnic cultures and expressing the movement aesthetics of that culture. . Students will work to improve individual competence, analyze performance in self and others using video, as well as peer coach. Assessments will afford students the opportunity to create and perform short sequences of dance in a variety of styles.

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Learning activities may include varied forms of aerobics including low-impact, swim and other water aerobics and body sculpting techniques; however, rhythm and dance will be the predominant engagement forms and may be inspired by a mix of salsa, hip-hop, ballroom dancing, country line dancing, or even ballet, etc.. Essentially workouts set to music, a typical dance class will begin with several minutes of warm-ups and stretching, peak with 20-30 minutes of dancing and end with several minutes of cool-down and stretching.

ADVANCED SWIMMING AND**Course Code: 859****Credits: 0.5****DIVING * (PW)****C, K, W**

HPE 859 is designed to offer students a highly specialized range of competitive swimming skill development activities in order to promote participation in interscholastic and/or competitive athletics. Students will acquire knowledge and practice fundamental to advanced skills for swim competition. This course provides effective strategies for personal conditioning and skill development drills in preparation for swim meets, includes direct instruction on the official NAIA rule book, and promotes participation both within school, and throughout the wider community in recreational swimming and diving opportunities. Availability is limited to aquatic facilities.

INTRODUCTION TO MINDFULNESS,**Course Code: 860****Credits: 0.5****YOGA AND AEROBIC EXERCISE * (PW)****C, K, W, WAMS, E, SS**

HPE 860 is designed to offer students a specialized course of study in one of the oldest holistic healthcare systems in existence. Originally founded in India, the Sanskrit word yoga literally means 'union.' The intent of yoga is to form a vibrant connection between body, mind and spirit, creating a lasting, integrative wellness program that one can continue to cultivate throughout their lifetime. Historically, Yoga has been practiced world-wide for its health, wellness and healing benefits. Yoga practices consist of physical postures called asanas, breathing exercises called pranayama, and elements of meditation and self-reflection. Yoga offers a comprehensive, disciplined approach to self-study that cultivates wellness by combining meditative reflection with a physical workout, thereby improving strength, flexibility, balance and endurance, as well as mental wellness. This holistic combination of physical, cognitive and affective disciplines has been known to reduce tension, anxiety, and emotional reactivity in adolescents. Yoga and aerobic exercise are key components to developing and maintaining physical fitness over one's lifespan. This course is designed for those students who have a strong interest in increasing their skills, knowledge and understanding related to developing and instituting a personal fitness program that utilizes aerobic exercise and yoga. Assessments will focus on students understanding the physiological response to a variety of training modes and their ability to create, execute and monitor a personal program.

FOOTBALL AND SOCCER**Course Code: 861****Credits: 0.5****OFFICIATING * (PW)****C, K, W, WAMS**

HPE 861 is designed to offer students a highly specialized course of study that prepares students to become qualified game officials for interscholastic and/or recreational soccer and football games. Students will acquire thorough knowledge of the rules of soccer and football. They will then practice officiating skills and rule interpretations in authentic ways through simulated games in preparation for employment as recreational soccer and football officials. Particular emphasis will be placed on building students' self-confidence as effective managers of athletic contests with the acquired information/skills to enforce fair, safe play through accurate administration of the rules and fidelity to standards of conduct that display respect for all participants.

BASEBALL AND SOFTBALL**Course Code: 862****Credits: 0.5****UMPIRING * (PW)****C, K, W, WAMS**

HPE 861 Physical Education - Baseball and Softball Umpiring

HPE 862 is designed to offer students a highly specialized course of study that prepares students to become qualified umpires for interscholastic and/or recreational baseball or softball games. Students will acquire thorough knowledge of the rules of baseball and softball. They will then practice officiating skills and rule interpretations in authentic ways through simulated games in preparation for employment as recreational baseball/softball umpires. Particular emphasis will be placed on building students' self-confidence as effective managers of athletic contests with the acquired information/skills to enforce fair, safe play through accurate administration of the rules and fidelity to standards of conduct that display respect for all participants.

BASKETBALL AND VOLLEYBALL**Course Code: 863****Credits: 0.5****OFFICIATING * (PW)****C, K, W, WAMS**

HPE 863 is designed to offer students a highly specialized course of study that prepares students to become qualified game officials for interscholastic and/or recreational basketball and volleyball games. Students will acquire thorough knowledge of the rules of basketball and volleyball. They will then practice officiating skills and rule interpretations in authentic ways through simulated games in preparation for employment as recreational basketball and volleyball officials. Particular emphasis will be placed on building students' self-confidence as effective managers of athletic contests with the acquired information/skills to enforce fair, safe play through accurate administration of the rules and fidelity to standards of conduct that display respect for all participants.

COOPERATIVE, OUTDOOR & PROJECT ADVENTURE STUDIES * (PW) **Course Code: 864** **Credits: 0.5**
C, K, W, WAMS, E

HPE 864 is designed to offer students challenging and fun team-building activities to help them learn that individuals are usually more capable (mentally, emotionally, and physically) than they perceive themselves to be, and if given the chance to try in a supportive atmosphere, can discover this excellence within themselves. This course guides students to develop an increased familiarity and identification with the natural world, to increase participants' sense of personal confidence, levels of agility and physical coordination, joy in one's physical self and the ability to both offer and accept mutual support within a group to accomplish things they may have never imagined doing. Particular emphasis on cooperative rather than competitive learning tasks will be pervasive in this course.

GAME PLAY: INVASION, NET AND FIELD GAMES * (PW) **Course Code: 865** **Credits: 0.5**
C, K, W, WAMS, E, SS

HPE 865 offers students a course of study that recognizes that games are a ubiquitous element of our society and come in many forms. It is designed for those students who have a strong interest in increasing their skills, knowledge and tactical understanding of invasion, net and field type games. Instruction will center on game play in traditional and novel games, each designed to highlight particular skills, tactics and strategies. Assessments will focus on using video of high level game play to develop the student's ability to analyze common tactics and strategies as well as the comparison use of video to analyze one's own performance or the performance of one's team.

UNIFIED SPORTS * (PW) **Course Code: 866** **Credits: 0.5**
C, K, W, WAMS

HPE 866 is designed to offer students with physical and/or cognitive disabilities and non-disabled peers to work together and mutually engage in a wide range of competition sports skill activities that promote lifelong participation in athletic and fitness-related pursuits. Students will acquire knowledge and skills for a variety of modified sports and games, including Unified Sports rules, strategies and opportunities both within and outside school in order to compete in Unified Sports events. Course enrollment for regular education students is restricted to juniors and seniors in good academic standing.

Waterbury Public Schools Non-Discrimination Policy

The Waterbury Public Schools do not discriminate in admission to, access to, treatment in, or employment in its services, programs, and activities, on the basis of race, color, or national origin, in accordance with Title VI of the Civil Rights Act of 1964 (Title VI); on the basis of sex, in accordance with Title IX of the Education Amendments of 1972 (Title IX); on the basis of disability, in accordance with Section 504 of the Rehabilitation Act of 1973 and Title II of the Americans with Disabilities Act of 1990 (ADA); on the basis of age, in accordance with the Age Discrimination Act of 1975 (Age Discrimination Act) as amended; gender identity and expression, (PA 11-55); status as a veteran (PA 17-127); or any other protected status, such as sexual orientation. The term “disability” shall be broadly construed. The question of whether an individual’s impairment is a disability under the ADA shall not demand extensive analysis. The District provides equal access to the Boy Scouts and other designated youth groups.

The Waterbury Public Schools do not retaliate against any complainant who alleges discrimination.

To file a complaint alleging discrimination or harassment by Waterbury Public Schools on the basis of race, color, national origin, sex, gender identity or expression, disability, or age, under Title VI, Title IX, Section 504, the ADA, the Age Discrimination Act, PA 11-55 or their respective implementing regulations, or any other protected status such as sexual orientation, please contact:

Superintendent of Schools
Waterbury Public Schools
236 Grand Street, Waterbury, CT 06702
(203) 574-8004

Non-Discrimination in the Instructional Program

This school system pledges to avoid discriminatory actions and seeks to foster good human and educational relations which will help to attain:

1. equal rights and opportunities for students and staff members in the school community.
2. equal opportunity for all students to participate in the total school program of the schools.
3. continual study and development of curricula toward improving human relations and understanding and appreciating cultural differences.
4. training opportunities for improving staff ability and responsiveness to educational and social needs.
5. opportunities in educational programs which are broadly available to all students.
6. an appropriate learning environment for students which includes (1) adequate instructional books, supplies, materials, equipment, staffing, facilities and technology, (2) equitable allocation of resources among district schools and (3) a safe school setting.

Each student, at the time s/he becomes eligible for participation, will be advised of his/her right to an equal opportunity to participate in school programs without discrimination of any kind.

NCAA Eligibility Information



ONE OPPORTUNITY. LIMITLESS POSSIBILITIES.

If you want to play sports at an NCAA Division I or II school, start by registering for a Certification account with the NCAA Eligibility Center at eligibilitycenter.org. If you want to play Division III sports or you aren't sure where you want to compete, start by creating a Profile Page account at eligibilitycenter.org.

ACADEMIC REQUIREMENTS

To play sports at a Division I or II school, you must graduate from high school, complete 16 NCAA-approved core courses, earn a minimum GPA and earn an SAT or ACT score that matches your core-course GPA.

CORE COURSES

Only courses that appear on your high school's list of NCAA core courses will count toward the 16 core-course requirement; visit eligibilitycenter.org/courselist for a full list of your high school's approved core courses. Complete 16 core courses in the following areas:

DIVISION I

Complete 10 NCAA core courses, including seven in English, math or natural/physical science, before your seventh semester.

ENGLISH	MATH (Algebra I or higher)	NATURAL/PHYSICAL SCIENCE (Including one year of lab, if offered)	ADDITIONAL (English, math or natural/physical science)	SOCIAL SCIENCE	ADDITIONAL COURSES (Any area listed to the left, foreign language or comparative religion/philosophy)
4 years	3 years	2 years	1 year	2 years	4 years

DIVISION II

ENGLISH	MATH (Algebra I or higher)	NATURAL/PHYSICAL SCIENCE (Including one year of lab, if offered)	ADDITIONAL (English, math or natural/physical science)	SOCIAL SCIENCE	ADDITIONAL COURSES (Any area listed to the left, foreign language or comparative religion/philosophy)
3 years	2 years	2 years	3 years	2 years	4 years

How to plan your high school courses to meet the 16 core-course requirement:

$$4 \times 4 = 16$$

9TH GRADE (1) English (1) Math (1) Science (1) Social Science and/or additional 4 CORE COURSES	10TH GRADE (1) English (1) Math (1) Science (1) Social Science and/or additional 4 CORE COURSES	11TH GRADE (1) English (1) Math (1) Science (1) Social Science and/or additional 4 CORE COURSES	12TH GRADE (1) English (1) Math (1) Science (1) Social Science and/or additional 4 CORE COURSES
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* ½ year course = 0.5 credit

GRADE-POINT AVERAGE

The NCAA Eligibility Center calculates your **grade-point average** based only on the grades you earn in NCAA-approved core courses.

- DI requires a minimum 2.3 GPA.
- DII requires a minimum 2.2 GPA.

SLIDING SCALE

Divisions I and II use sliding scales to match test scores and GPAs to determine eligibility. The sliding scale balances your test score with your GPA. If you have a low test score, you need a higher GPA to be eligible. Find more information about sliding scales at ncaa.org/test-scores.

TEST SCORES

You may take the SAT or ACT an unlimited number of times before you enroll full time in college. Every time you register for the SAT or ACT, use the NCAA Eligibility Center code **9999** to send your scores directly to us from the testing agency. We accept official scores only from the SAT or ACT, and cannot use scores shown on your high school transcript. If you take either test more than once, the best subscore from different tests are used to give you the best possible score. More information regarding the impact of COVID-19 and test scores can be found at on.ncaa.com/COVID19_Fall_B.

DIVISION I FULL QUALIFIER SLIDING SCALE		
Core GPA	SAT*	ACT Sum*
3.550	400	37
3.525	410	38
3.500	430	39
3.475	440	40
3.450	460	41
3.425	470	41
3.400	490	42
3.375	500	42
3.350	520	43
3.325	530	44
3.300	550	44
3.275	560	45
3.250	580	46
3.225	590	46
3.200	600	47
3.175	620	47
3.150	630	48
3.125	650	49
3.100	660	49
3.075	680	50
3.050	690	50
3.025	710	51
3.000	720	52
2.975	730	52
2.950	740	53
2.925	750	53
2.900	750	54
2.875	760	55
2.850	770	56
2.825	780	56
2.800	790	57
2.775	800	58

DIVISION I FULL QUALIFIER SLIDING SCALE		
Core GPA	SAT*	ACT Sum*
2.750	810	59
2.725	820	60
2.700	830	61
2.675	840	61
2.650	850	62
2.625	860	63
2.600	860	64
2.575	870	65
2.550	880	66
2.525	890	67
2.500	900	68
2.475	910	69
2.450	920	70
2.425	930	70
2.400	940	71
2.375	950	72
2.350	960	73
2.325	970	74
2.300	980	75
2.299	990	76
2.275	990	76
2.250	1000	77
2.225	1010	78
2.200	1020	79
2.175	1030	80
2.150	1040	81
2.125	1050	82
2.100	1060	83
2.075	1070	84
2.050	1080	85
2.025	1090	86
2.000	1100	86

ACADEMIC REDSHIRT

DIVISION II FULL QUALIFIER SLIDING SCALE					
Core GPA	SAT*	ACT Sum*	Core GPA	SAT*	ACT Sum*
3.300 & above	400	37	2.725	730	52
3.275	410	38	2.700	740	53
3.250	430	39	2.675	750	53
3.225	440	40	2.650	750	54
3.200	460	41	2.625	760	55
3.175	470	41	2.600	770	56
3.150	490	42	2.575	780	56
3.125	500	42	2.550	790	57
3.100	520	43	2.525	800	58
3.075	530	44	2.500	810	59
3.050	550	44	2.475	820	60
3.025	560	45	2.450	830	61
3.000	580	46	2.425	840	61
2.975	590	46	2.400	850	62
2.950	600	47	2.375	860	63
2.925	620	47	2.350	860	64
2.900	630	48	2.325	870	65
2.875	650	49	2.300	880	66
2.850	660	49	2.275	890	67
2.825	680	50	2.250	900	68
2.800	690	50	2.225	910	69
2.775	710	51	2.200	920	70 & above
2.750	720	52			

For more information: <http://ncaa.org/playcollegesports> <http://eligibilitycenter.org/>

H: Humanities • S: STEM • WL: World Languages • PW: Physical Wellness

C: Crosby • K: Kennedy • W: Wilby • WAMS: Waterbury Arts Magnet • WCA: Career Academy • SS: State Street • E: Enlightenment

* ½ year course = 0.5 credit