

Killingly High School Program of Studies

Table of Contents

| | |
|--|---------------|
| <u>Academic Information</u> | 2 |
| Graduation Requirements | 2 |
| Course Level Descriptions | 3 |
| Course Requests | 3 |
| Honor Roll | 3 |
| Class Rank | 4 |
| Course Change Procedure | 4 |
| NCAA Eligibility | 4 |
| College Planner | 5 |
| College Credit Options | 6 |
| <u>Available Courses (By Department)</u> | 8 |
| Agriculture Education Department | 8 |
| Art Department | 17 |
| Business & Computer Science Department | 23 |
| English Department | 32 |
| Family & Consumer Science Department | 39 |
| Mathematics Department | 42 |
| Music Department | 48 |
| Physical Education and Health Department | 55 |
| Science Department | 58 |
| Social Studies Department | 65 |
| Technology Department | 70 |
| World Language Department | 78 |
| <u>Career Pathways</u> | 87 |
| Career Pathways Introduction | 87 |
| Career Pathways Overview (Table of Contents) | 89-90 |
| Individual Pathways Course and Job Shadow Requirements | 91-125 |

Academic Information

Graduation Requirements

Credit Requirements

| | |
|---|-----------|
| English | 4 |
| Social Studies (<i>includes American Government, 1.0 and US History, 1.0</i>) | 3 |
| Mathematics | 3 |
| Science | 3 |
| Physical Education | 1.0 |
| Health | 1.0 |
| World Language | 1.0 |
| Humanities* Electives (<i>includes Visual or Performing Arts, 1.0</i>) | 2.0 |
| STEM* Electives (<i>includes Computer Literacy, 0.5</i>) | 3.0 |
| Mastery Based Performance Requirement | 1.0 |
| Additional Electives | 3.0 |
| Total Credits Required for Graduation | 25 |

***Humanities** courses are those from the fields of History, Literature, Language, and the Visual and Performing Arts which contribute to the development of skills that students require to better participate in and understand the processing and documenting of the human experience. These courses provide students with an opportunity to develop a sense of connection to those who have come before us as well as to our contemporaries. Such skills include oral and written communication, rational analysis, creative and critical thinking, and emotional insight & imagination.

***STEM** courses are those from the fields of Science, Technology, Engineering and/or Mathematics which contribute to the development of skills that students require to design solutions to complex problems. STEM skills include asking questions, planning and carrying out investigations, analyzing and interpreting data, using mathematics and computational thinking, constructing explanations, engaging in argument from evidence & obtaining, and evaluating and communicating information.

Courses fulfilling "Humanities" (including Visual Arts) and "STEM" are indicated under the "Course Designation" of each course.

Performance Graduation Requirements (PGRs)

All Killingly High School students are required to complete PGRs in eight (8) areas:

- | | |
|-------------------------------|---------------------------------|
| 1. Education/Career Portfolio | 5. Oral Communication |
| 2. Use of Computer Technology | 6. Reading for Information |
| 3. Persuasive Argument | 7. Response to Literature |
| 4. Numeric Problem Solving | 8. Community Service (40 hours) |

Students must obtain both the required credits and achieve mastery in PGRs 1-8. Students fulfill these PGRs through specific courses and the independent completion of tasks.

Course Level Descriptions

Killingly High School encourages all students to attempt the highest-level courses appropriate.

Advanced Placement (AP) and/or UCONN ECE

These courses involve rigorous academic expectations requiring students to do extensive reading, writing, individual and group research, and produce scholarly papers and other products *that reflect college-level work*.

Honors

These courses involve rigorous academic expectations requiring students to do extensive reading, writing, individual and group research, and produce scholarly papers and products.

College Preparatory (CP)

These courses are rigorous in nature and are designed for students planning to attend four-year colleges. Students should expect nightly homework, extensive writing, and classroom discussions.

General

These courses are aimed at improving the knowledge and skills of students and will move at slightly slower paces than CP courses. Students planning to attend community colleges, technical schools, enter the job market, or join the military can take courses at this level or higher. It is important that students strive to do well in General courses and seek to move to CP courses where appropriate.

Course Requests

Teachers and School Counselors will help students select courses based on graduation requirements as well as interests, performance, career and college plans, and the schools to which they apply. These decisions will occur at various times each year as students and School Counselors meet to update students' Course Planners, and during Course Request Day(s) in the spring when teachers provide level recommendations for the following school year. Parents and guardians should discuss these recommendations and requests with students at home.

Honor Roll

Weighted grading is *not* used in determining Honor Roll. Honor Roll is calculated quarterly as such:

High Honors: All A's (including A-)

First Honors: A's and not more than two B's (including B- and B+)

Second Honors: A's, B's and one C (including C- and C+)

Students must be considered full time to be eligible for the Honor Roll.

Students who have withdrawn from a class (W) are ineligible for the honor roll.

Students with more than two classes on a Pass/Fail (P/F) grade scale are ineligible for honor roll.

Class Rank

Class rank is determined by using a weighted system. The level of a course and grade earned determines the point value in the weighting system. Course weights and corresponding values are indicated below.

| Grade | General | College Prep | Honors | AP/UCONN ECE |
|----------------|---------|--------------|--------|--------------|
| A | 4.0 | 4.5 | 5.0 | 5.5 |
| A- | 3.7 | 4.2 | 4.7 | 5.2 |
| B+ | 3.3 | 3.8 | 4.3 | 4.8 |
| B | 3.0 | 3.5 | 4.0 | 4.5 |
| B- | 2.7 | 3.2 | 3.7 | 4.2 |
| C+ | 2.3 | 2.8 | 3.3 | 3.8 |
| C | 2.0 | 2.5 | 3.0 | 3.5 |
| C- | 1.7 | 2.2 | 2.7 | 3.2 |
| D | 1.0 | 1.5 | 2.0 | 2.5 |
| F | 0 | 0 | 0 | 0 |
| W (Withdrawal) | 0 | 0 | 0 | 0 |

Students must complete a minimum of 12 credits at KHS to be ranked with their graduating class.

Course Change Procedure

Students and families should take great care in selecting courses, as schedule changes just prior to or during the school year are often challenging. Students should meet with their teachers and school counselors to ensure that courses on their schedules are at the appropriate level, meet the graduation requirements, and are of interest to them.

Course changes are only allowed at certain times of the year:

1. Prior to the opening of school in August, depending on counselor availability.
2. During the first 4 days of the semester during the add/drop period (September & January)

If students are having difficulty with courses, they are expected to communicate with their teachers and utilize existing supports available to them, including Pride Block and after school. **Only after various interventions have been exhausted should a course change be considered.** After the add/drop period has ended, Student Request to Change Course Forms (blue forms) are used. The process of changing courses involves teachers, department chairs, parents, and school counselors. Some course changes may be reflected on report cards and permanent transcripts. If students drop a course after the first marking period of that course, a grade of W (Withdrawal) will appear on their report cards. Withdrawals do *not* affect GPA or class rank but may appear on students' transcripts.

NCAA Eligibility

Students who are considering playing Division I or II athletics in college must ensure that **core subject area** courses taken at KHS are approved through the NCAA. This information is indicated by #’s in the Table of Contents for each department. See NCAA Eligibility Center (<https://web3.ncaa.org/ecwr3/>) and KHS school website for more information.

College Planner

Please use this guide to understand the differences between Killingly High School graduation core subject course requirements, and the core subject course requirements of 4-year colleges and universities. This guide should help you map out your 4-year academic planner and discuss class levels for next year with your teachers.

| Subject Area | KHS Graduation Requirements | Selective College/University <i><u>*Mix of CP, Honors or AP level courses*</u></i> | Highly Selective College/University <i><u>*Predominantly Honors or AP courses in core areas*</u></i> |
|--|---|---|---|
| English | 4 years (any level) | 4 years (CP level or higher) | 4 years (Honors level or higher) |
| Math | 3 years (any level) | 4 years (CP level or higher including Algebra 1, 2 & 3, and Geometry) | 4 years (CP level or higher including Algebra 1, 2 & 3, and Geometry) |
| Social Studies | 3 years including American Citizenship and U.S. History (any level) | 3 years (CP level or higher) | 4 years (Honors level or higher) |
| Science | 3 years (any level) | 3 years (CP level or higher including Biology, Chemistry and Physics) | 4 years (Honors level or higher including Biology, Chemistry and Physics) |
| World Language | 1 year | 2-3 years of the SAME language | 4 years of the SAME language |
| Additional Considerations (Rank, Test Scores, etc.) | None | -Rank in top 2/3 of class -Minimum SAT scores of 1000 (Math and Critical Reading sections) -Extracurricular activities that reflect leadership and initiative | -Rank in top 10% of class -Minimum SAT scores of 1300 (Math and Critical Reading sections) -Extracurricular activities that reflect leadership and initiative |

College Credit Options

Students can get a head start in college through enrollment in one or more of our dual enrollment options outlined below. Interested students *must complete* the required applications and registration steps specific to each program by the specified deadline(s).

1. College Credit Articulations with UCONN, ECSU and Quinebaug Valley Community College

Students who take Killingly High School courses equivalent to UCONN, ECSU and QVCC courses may earn college credit **AT LITTLE OR NO COST TO THE STUDENT**. Killingly's articulation agreements link with the college and universities' post-secondary certificate or degree programs. Upon successful completion of a course, students may request that an official college transcript be sent to another college as well.

****In order to have the potential to earn college credit through these articulations, students must independently complete all required application and enrollment steps, and submit any required fee(s).****

Below are titles of courses offered at KHS and then the course equivalent offered at QVCC, ECSU, and UCONN:

| KHS Course | QVCC Course/Description | Credit Earned |
|------------------------------|---|----------------------|
| Accounting 1 & 2 | ACCL113/Financial Accounting | 3 |
| Introduction to Programming* | CSCL106/Structured Programming | 3 |
| Business Management | BBGL101/Introduction to Business | 3 |
| Computer Literacy | CSAL105/Introduction to Software Applications | 3 |

**Not currently running*

| KHS Course | ECSU Course/Description | Credit Earned |
|------------------------|------------------------------------|----------------------|
| Business Communication | COM101/Interpersonal Communication | 3 |

| KHS Course | UCONN Course/Description | Credit Earned |
|--------------------------------|--|----------------------|
| AP Latin 3 & 4 | CAMS 3102/Topics in Advanced Latin | 3 |
| CP Music Theory | MUSI1011/Fundamentals in Ear Training | 3 |
| AP Music Theory | MUSI1011and/or MUSI1012/Fundamentals in Ear Training | 3/6 |
| AP English Lang & Comp | ENGL1007/Seminar in Writing and Multimodal Composition | 4 |
| Ag Intro to Companion Animals | ANSC 1676/Intro to Companion Animals | 3 |
| Ag Intro Environmental Science | NRME 1000/Intro to Environmental Science | 3 |
| Ag 2 Plant Science | SPSS 1110/Fundamentals of Horticulture | 2 |
| Ag Floriculture | SPSS 2520/Floral Art,SPSS 3530/Advanced Floral Design | 4 |
| Ag Biotechnology | PLSC3230/Biotechnology | 3 |
| Ag Nursery/Landscape | SPSS 1100/Turfgrass Management | 3 |

2. Advanced Placement Courses

Killingly High School offers several Advanced Placement (AP) courses that follow the suggested Advanced Placement Program course outline. Students who take AP courses can earn college credit if they take and pass the Advanced Placement Test with a score high enough to satisfy their college or university's requirement (typically a 3 or higher).

3. Quinebaug Valley Community College “Partnership Program”

This is an opportunity for a junior or senior with a minimum of 3.0 GPA to enroll in *one free* semester course at QVCC (pending available funding). Students are encouraged to take advanced classes at QVCC through the Partnership

Program. One college class per semester is typically provided at no cost. The course can be transferred to the high school at the end of the semester for credit (1/2 credit), although stipulations to this may apply. QVCC will waive the tuition, college fee, and application fee for this program. Credits earned from the Partnership Program may transfer to the colleges after graduation. Students must take a Basic Skills Assessment for placement in some classes, as well as pay for required textbooks.

4. Quinebaug Community College “Running Start” Program

This program allows **12th grade students** to spend their senior years at QVCC, where they are able to earn dual enrollment credit to meet both high school (KHS) and college requirements. This program is open to seniors who hold a minimum GPA of 2.8. Students must obtain a recommendation from their school counselor and permission from a parent/guardian. Application deadlines are May 30th for the fall semester and November 30th for the spring semester and **should be done in the student’s junior year**. Participating students are assigned a college advisor who is familiar with their needs and high school requirements. Students must maintain a full-time semester schedule (4 courses) at QVCC, as well as meet their remaining high school graduation requirements. All expenses for this program are paid by the student/family. **Financial Aid is not available**. (One class per semester *may be* free, per criteria of the “High School Partnership Program”).

5. QVCC College Course

A high school student who is 16 years or older and who has maintained a 3.0 or higher GPA may elect to take a college-level course (100 level or higher) for dual credit. All expenses are paid by the student/family. Students can transfer course credits to KHS for high school credit (1/2 high school credit for semester college courses) ***for elective credit only***.

AVAILABLE COURSES (By Department)

AGRICULTURAL EDUCATION DEPARTMENT

[Click here to return to Table of Contents](#)

| Course # | Title | Level | Credit | Duration | Grade |
|--------------------------|--|--------------|---------------|-----------------------|--------------|
| AGECP1870 | Agriculture Education 1 CP | College Prep | 1 | Year | 9 |
| AGECP1900 | Supervised Agricultural Experience | College Prep | .5 | Year | 10-12 |
| AGECP1850 | AG 2 Env Sci Aqua CP | College Prep | 1 | S1 | 10 |
| AGEEC1851 | AG 2 Plant Science ECE | ECE | 1 | semester | 10 |
| AGECP1852 | AG 2 Ag Engineering CP | College Prep | 1 | semester | 10 |
| AGECP1853 | AG 2 Animal Science CP | College Prep | 1 | semester | 10 |
| AGECP1857 | AG 2 Food Science and Biotechnology | College Prep | 1 | semester | 10 |
| AGECP1864 & AGECP1865 | Ecology of Fish and Wildlife PT1 & PT2 CP (must register for both) | College Prep | 1.5 | Year plus semester | 11-12 |
| AGEEC1858 & AGEEC1859 | Floriculture PT1 & PT2 ECE (must register for both) | ECE | 1.5 | Year plus semester | 11-12 |
| AGECP1866 & AGECP1867 | AG Power & Technical Systems PT 1 & PT 2 CP (must register for both) | College Prep | 1.5 | Year plus semester | 11-12 |
| AGECP1838 & AGECP1839 | Agricultural Structural Systems PT 1 & PT 2 CP (must register for both) * | College Prep | 1.5 | Year plus semester | 11-12 |
| AGECP1890 & AGECP1891 | Production Animal Science Y1 PT 1 & PT 2 CP (must register for both) | College Prep | 1.5 | Year plus semester | 11-12 |
| AGECP1862 AGECP1863 | Nursery/Landscape PT1 & PT 2 AP (must register for both) | ECE | 1.5 | Year plus semester | 11-12 |
| AGEEC1862 & AGEEC1863 | Intro to Companion Animal UConn PT1 & PT 2 ECE (must register for both) | ECE | 1.5 | Year plus semester | 11-12 |
| AGEEC1868 & AGEEC1869 | Biotechnology UConn PT1 & PT 2 ECE (must register for both) | ECE | 1.5 | Year plus semester | 11-12 |
| AGEEC1895 & AGEEC1896 | Intro to Environmental Science PT 1 & PT 2 EC (must register for both) | ECE | 1.5 | Year plus semester | 11-12 |
| AGECP1848 | Principles of Food Science | College Prep | 1.5 | Year plus semester | 11-12 |
| AGECP1868 | Aquaculture and Aquaponics | College Prep | .5 | S2 | 10-12 |
| AGECP1869 | Projects in Agricultural Mechanics | College Prep | .5 | S1 | 10-12 |
| AGECP1873 | Equine Science | College Prep | .5 | semester | 10-12 |
| AGECP1844 | Projects in Plant Science | College Prep | .5 | semester | 10-12 |
| AGECP1845 | Behavior & Training of Dom. Animals | College Prep | .5 | semester | 10-12 |
| AGECP1849 | Sustainable Food Production | College Prep | .5 | semester | 9-11 |

Course Number: AGECP1870
Open To: Students who have applied and been accepted to the Ag-Ed Program
Prerequisites: Interest in Agriculture, Environmental Science and Leadership
Weight: College Prep
Duration/Credit: Full Year/1 Credit
Course Designation: STEM

This course is an introduction to topics related to agriculture, animal science, plant science, agricultural engineering, environmental science, aquaculture, and leadership. FFA (leadership activities) including membership in the Killingly FFA Chapter and Career Exploration through the development of a Supervised Agricultural-Experience (SAE) project are intra-curricular components of this course and the Killingly Agricultural Education Program.

SUPERVISED AGRICULTURAL EXPERIENCE

Course Number: AGECP1900
Open To: Students in grades 10-12 who are currently enrolled in the Agriculture Program
Prerequisites: Successful completion of Agriculture Education 1
Weight: CP
Duration/Credit: Full Year/.50 Credit
Course Designation: STEM

All students enrolled in Ag Education courses (except Ag Education 1) are required to enroll in the .5 credit Supervised Agricultural Experience (SAE) course. Supervised Agricultural Experience (SAE) is a student-led, instructor/parent supervised, work-based learning experience that results in measurable outcomes aligned with Agriculture, Food and Natural Resources (AFNR) Technical Standards and Career Ready Practices. It is aligned to a career plan of study. Students are expected to work with their teacher and guardians to develop an individualized SAE plan with learning objectives, continually work towards those goals and demonstrate the ability to reflect on their learning. This course does not have regular meeting times during the school day. Teachers, parents, and students utilize electronic communication, the intervention period, scheduled appointments (in or outside of school hours) and the summer SAE visit to collaborate on SAE goals, opportunities, improvements, or assessments.

AG 2 ENVIRONMENTAL SCIENCE AND AQUACULTURE

Course Number: AGECP1850
Open To: Grades 10 (grade 11 if needed)
Prerequisites: AGECP1870 Agricultural Education 1
Weight: College Prep
Duration/Credit: Fall Semester 1 Credit OR Spring Semester 1 Credit (meets every day)
Course Designation: STEM

This course is designed for students who have completed Ag 1 with an interest in the environmental sciences including resource conservation, soil science, wildlife management, water quality, forestry, aquaculture, aquaponics and sustainable agriculture. Students will be expected to participate in hands-on work outdoors and in the aquaculture and aquaponics lab, as well as complete oral and written assignments. Membership in the Killingly FFA Chapter and continuing to develop a Supervised Agriculture Education (SAE) project are intra-curricular components of the Killingly Agricultural Education Program. *Students enrolled in this course must also enroll in the .5 credit Supervised Agricultural Experience course.*

AG 2 PLANT SCIENCE UCONN ECE (SPSS1110)

Course Number: AGEEC1851
Open To: Grades 10 (grade 11 if needed)
Prerequisites: AGECP1870 Agricultural Education 1
Weight: College Prep
Duration/Credit: Fall Semester 1 Credit OR Spring Semester 1 Credit (meets every day)
*This class may earn college credits through UCONN**
Course Designation: STEM

This course is designed for students who have completed Ag 1 with an interest in Horticulture. Students will be expected to participate in hands-on work in the greenhouse as well as complete oral and written assignments. Material covered will include Soil Science, Plant Anatomy and Physiology, Plant Growing Environments, and Plant Reproduction. Membership in the Killingly FFA Chapter and continuing to develop a Supervised Agriculture Education (SAE) project are intra-curricular components of the Killingly Agricultural Education Program. *Students enrolled in this course must also enroll in the .5 credit Supervised Agricultural Experience course.*

****To earn the 3 available UCONN credits, students must complete the UCONN Early College Experience (ECE) application and enrollment steps, and submit any applicable course fees.****

AG 2 AGRICULTURAL ENGINEERING

Course Number: AGECP1852
Open To: Grades 10 (grade 11 if needed)
Prerequisites: AGECP1870 Agricultural Education 1
Weight: College Prep
Duration/Credit: Fall Semester 1 Credit OR Spring Semester 1 Credit (meets every day)
Course Designation: STEM

This course is designed for students who have completed Ag 1 with an interest in a career related to Agricultural Engineering. Students will learn how to safely operate shop and farm equipment. Students will utilize content, skills and problem-solving strategies through shop and land laboratory experiences. Skills in physics, geometry, and algebra are reinforced in this course. Membership in the Killingly FFA Chapter and continuing to develop a Supervised Agriculture Education (SAE) project are intra-curricular components of the Killingly Agricultural Education Program. *Students enrolled in this course must also enroll in the .5 credit Supervised Agricultural Experience course.*

AG 2 ANIMAL SCIENCE

Course Number: AGECP1853
Open To: Grades 10 (grade 11 if needed)
Prerequisites: AGECP1870 Agricultural Education 1
Weight: College Prep
Duration/Credit: Fall Semester 1 Credit OR Spring Semester 1 Credit (meets every day)
Course Designation: STEM

This course is designed for students who have completed Ag 1 with an interest in Animal Science. In this course students will be introduced to the animal science industries. Topics for the course include animal health, genetics, veterinary science, anatomy and physiology, and animal husbandry. Students will be expected to participate in

hands-on work in the animal lab as well as complete oral and written assignments. Membership in the Killingly FFA Chapter and continuing to develop a Supervised Agriculture Education (SAE) project are intra-curricular components of the Killingly Agricultural Education Program. *Students enrolled in this course must also enroll in the .5 credit Supervised Agricultural Experience course.*

AG 2 FOOD SCIENCE AND BIOTECHNOLOGY

Course Number: AGECP1857
Open To: Grades 10 (grade 11 if needed)
Prerequisites: AGECP1870 Agricultural Education 1
Weight: College Prep
Duration/Credit: Fall Semester 1 Credit OR Spring Semester 1 Credit
Course Designation: STEM

In this course, students will be introduced to the food science and biotechnology industries. An emphasis will be placed on the connection between human health, animal health, and environmental health, and how they influence food science and biotechnology technologies. Students will explore several topics related to food science and biotechnology including food safety and handling, food labeling and marketing, biotechnology used in research, and DNA biotechnology. Membership in the Killingly FFA Chapter and continuing to develop a Supervised Agriculture Education (SAE) project are intra-curricular components of the Killingly Agricultural Education Program. *Students enrolled in this course must also enroll in the .5 credit Supervised Agricultural Experience course.*

AG COURSES FOR JUNIORS AND SENIORS

ECOLOGY OF FISH AND WILDLIFE

Course Number: AGECP1864 & AGECP1865
Open To: Grades 11-12
Prerequisites: AGEEC1850 Ag 2 Environmental Science and Aquaculture
Weight: College Prep
Duration/Credit: Full Year/1.5 Credits (schedule to be determined)
Course Designation: STEM

This course provides a more in-depth study of the principles of ecology and the life history of wildlife found in Northeastern United States. This course also covers basic units in taxonomic classification, environmental law, history of conservation and other similar topics. Students will be expected to participate in hands-on work outdoors and in the aquaculture and aquaponics lab, as well as complete oral and written assignments. Membership in the Killingly FFA Chapter and continuing to develop a Supervised Agriculture Education (SAE) project are intra-curricular components of the Killingly Agricultural Education Program. *Students enrolled in this course must also enroll in the .5 credit Supervised Agricultural Experience course.*

FLORICULTURE (SPSS2520 and SPSS3530)

Course Number: AGEEC1858 & AGEEC1858
Open To: Grades 11-12
Prerequisites: AGEEC1851 Ag 2 Plant Science
Weight: AP/ECE
Duration/Credit: 1.5 Credits (Fall Semester every day and Spring Semester every other day)
*This class may earn college credits through UCONN**

Course Designation: HUMANITIES (fulfills *Visual Arts* requirement)

This course is open to juniors and seniors in the agricultural education department. It builds skills that are important to careers in greenhouse and field production management, garden center and floral shop management, and floral design. Membership in the Killingly FFA Chapter and continuing to develop a Supervised Agriculture Education (SAE) project are intra-curricular components of the Killingly Agricultural Education Program. *Students enrolled in this course must also enroll in the .5 credit Supervised Agricultural Experience course.*

****To earn the 3 available UCONN credits, students must complete the UCONN Early College Experience (ECE) application and enrollment steps, and submit any applicable course fees.****

AGRICULTURAL POWER AND TECHNICAL SYSTEMS

Course Number: AGECP1866 & AGECP1867
Open To: Students who have successfully completed Agricultural Engineering 2
Prerequisites: AGECP1852 Ag 2 Agricultural Engineering
Weight: College Prep
Duration/Credit: Full year/1.5 Credit (schedule to be determined)
Course Designation: STEM

Students will learn content, skills and problem-solving strategies related to Agricultural Engineering through shop and land laboratory experiences. Content may include agricultural drafting and design, wood construction, hydraulic systems, small engine maintenance and repair, metal fabrication, electrical wiring, maintenance of agricultural machinery, equipment, and tractors. Skills in physics, geometry, and algebra are reinforced in this course. Safety is incorporated throughout. Membership in the Killingly FFA Chapter and continuing to develop a Supervised Agriculture Education (SAE) project are intra-curricular components of the Killingly Agricultural Education Program. *Students enrolled in this course must also enroll in the .5 credit Supervised Agricultural Experience course.*

AGRICULTURAL STRUCTURAL SYSTEMS (WILL NOT BE OFFERED 2023-24)

Course Number: AGECP1838 & AGECP1839
Open To: Grades 11-12
Prerequisites: AGECP1852 Ag 2 Agricultural Engineering
Weight: College Prep
Duration/Credit: Full year/1.5 credit (schedule to be determined)
Course Designation: STEM

Students will learn content, skills and problem-solving strategies related to Agricultural Engineering through shop and land laboratory experiences. Content may include agricultural fencing, land surveying, metal fabrication, concrete construction, building construction, plumbing, electrical wiring, maintenance of agricultural machinery, equipment, and tractors. Skills in physics, geometry, and algebra are reinforced in this course. Safety is incorporated throughout. Membership in the Killingly FFA Chapter and continuing to develop a Supervised Agriculture Education (SAE) project are intra-curricular components of the Killingly Agricultural Education Program. *Students enrolled in this course must also enroll in the .5 credit Supervised Agricultural Experience course.*

PRODUCTION ANIMAL SCIENCE

Course Number: AGECP1890 & AGECP1891
Open To: Students who have successfully completed Animal Science 2

Prerequisites: AGECP1853 Ag 2 Production Animal Science
Weight: College Prep
Duration/Credit: Full year/1.5 Credit (schedule to be determined)
Course Designation: STEM

Students will learn the management, care, and marketing of the farm animals. Other topics include livestock selection, genetics, nutrition, common diseases and parasites, veterinary science, careers in the animal industry, animal products, and reproduction of farm animals. Course includes units in anatomy and physiology with dissection. Membership in the Killingly FFA Chapter and continuing to develop a Supervised Agriculture Education (SAE) project are intra-curricular components of the Killingly Agricultural Education Program. *Students enrolled in this course must also enroll in the .5 credit Supervised Agricultural Experience course.*

NURSERY/LANDSCAPE (SPSS 1100)

Course Number: AGECP1862; AGECP1863
Open To: Grades 11-12
Prerequisites: AGEEC1851 Ag 2 Plant Science
Weight: AP/ECE
Duration/Credit: 1.5 Credits (Fall Semester every other day and Spring Semester every day)
*This class may earn college credits through UCONN**
Course Designation: STEM

This course is open to juniors and seniors in the agricultural education department. It builds skills that are important to careers in landscape design and maintenance, turf grass and athletic field management, as well as maintaining landscape plants and related products. Membership in the Killingly FFA Chapter and continuing to develop a Supervised Agriculture Education (SAE) project are intra-curricular components of the Killingly Agricultural Education Program. *Students enrolled in this course must also enroll in the .5 credit Supervised Agricultural Experience course.*

****To earn the 3 available UCONN credits, students must complete the UCONN Early College Experience (ECE) application and enrollment steps, and submit any applicable course fees.****

INTRODUCTION TO COMPANION ANIMALS (ANSC 1676)

Course Number: AGEEC1862 & AGEEC1863
Open To: Grades 11-12
Prerequisites: AGECP 1853 Ag 2 Animal Science
Weight: AP/ECE
Duration/Credit: Full Year 1.5 Credits (schedule to be determined)
*This class may earn college credits through UCONN**
Course Designation: STEM

The objective of this course is to familiarize students with companion animals including cats, dogs, rodents, exotics, and horses. Topics that will be discussed include basic concepts of nutrition, anatomy and physiology, health and disease, careers working with companion animals, and management of companion animals. Students will be able to interact with a variety of the animals that they are studying throughout the course. Membership in the Killingly FFA Chapter and continuing to develop a Supervised Agriculture Education (SAE) project are intra-curricular components of the Killingly Agricultural Education Program. *Students enrolled in this course must also enroll in the .5 credit Supervised Agricultural Experience course.*

****To earn the 3 available UCONN credits, students must complete the UCONN Early College Experience***

(ECE) application and enrollment steps, and submit any applicable course fees.*

BIOTECHNOLOGY (PLSC3230)

Course Number: AGEEC1868 & AGEEC1869 (ECE: PLSC3230)
Open To: Grades 11-12
Prerequisites: Ag 2 Plant Science, Ag 2 Animal Science or Ag 2 Food Science
Weight: AP/ECE
Duration/Credit: Full Year 1.5 Credit (schedule to be determined)
*This class may earn college credits through UCONN**
Course Designation: STEM

This course is designed for students who have completed Ag 2 and have an interest in a career involving animal science, plant science, environmental science, or biotechnology. Biotechnology students will be expected to participate in a variety of lab activities as well as complete written assignments. The overall goal of the course is to have students understand the basic scientific principles, methodologies, controversial topics surrounding biotechnology, and applications used in modern biotechnology. Membership in the Killingly FFA Chapter and continuing to develop a Supervised Agriculture Education (SAE) project are intra-curricular components of the Killingly Agricultural Education Program. *Students enrolled in this course must also enroll in the .5 credit Supervised Agricultural Experience course.*

****To earn the 3 available UCONN credits, students must complete the UCONN Early College Experience (ECE) application and enrollment steps, and submit any applicable course fees.****

INTRODUCTION TO ENVIRONMENTAL SCIENCE (NRME 1000)

Course Number: AGEEC1895 & AGEEC1896
Open To: Grades 11-12
Prerequisites: AGECP1850 Ag 2 Environmental Science and Aquaculture
Weight: AP/ECE
Duration/Credit: Full Year 1.5 credits (schedule to be determined)
*This class may earn college credits through UCONN**
Course Designation: STEM

This course provides an introduction to basic concepts and areas of environmental concern and how these problems can be effectively addressed. Topics include environmental literacy, sustainable use of our resources, human population growth; agriculture and our environment, conservation of biodiversity; energy use and conservation and water pollution and water management. Students will be expected to participate in hands-on work outdoors and in the aquaculture and aquaponics lab, as well as complete oral and written assignments. Membership in the Killingly FFA Chapter and continuing to develop a Supervised Agriculture Education (SAE) project are intra-curricular components of the Killingly Agricultural Education Program. *Students enrolled in this course must also enroll in the .5 credit Supervised Agricultural Experience course.*

****To earn the 3 available UCONN credits, students must complete the UCONN Early College Experience (ECE) application and enrollment steps, and submit any applicable course fees.****

PRINCIPLES OF FOOD SCIENCE

Course Number: AGECP1848
Open To: Grades 11-12
Prerequisites: Ag 2 Animal Science or Ag 2 Food Science
Weight: College Prep

Duration/Credit: Full year/1.5 Credit (schedule to be determined)
Course Designation: STEM

This course is designed to completely immerse students in the food science industry. Students will explore several topics related to the science of food and food production, including food safety and handling, dairy science and meat science. Students will participate in class activities and lab experiments that allow them to develop specific technical skills employers look for within food science. Membership in the Killingly FFA Chapter and continuing to develop a Supervised Agriculture Education (SAE) project are intra-curricular components of the Killingly Agricultural Education Program. *Students enrolled in this course must also enroll in the .5 credit Supervised Agricultural Experience course.*

AGRICULTURE EDUCATION ELECTIVES

AQUACULTURE AND AQUAPONICS

Course Number: AGECP1868
Open To: Grade 10-12 students who are enrolled in Agriculture Education Program
Prerequisites: AGECP1870 Agricultural Education 1
Weight: College Prep
Duration/Credit: .5 Credits (Spring Semester); *May be repeated for credit*
Course Designation: STEM

The study of raising fish and plants in closed production systems including topics such as system construction, health and feeding of fish, water filtration, and business and marketing in aquaculture and aquaponics production. Students must be prepared to work in the aquaculture and aquaponics lab, as well as complete oral and written assignments.

PROJECTS IN AGRICULTURAL MECHANICS

Course Number: AGECP1869
Open To: Grade 10-12 students who are enrolled in Agriculture Education Program
Prerequisites: AGECP1870 Agricultural Education 1
Weight: College Prep
Duration/Credit: .5 Credit; *May be repeated for credit*
Course Designation: STEM

Students will learn basic content and skills in the agricultural shop and land laboratory. Safety, project planning, metal fabrication and use of hand and power tools and the use of machinery may be included.

EQUINE SCIENCE

Course Number: AGECP1873
Open To: Sophomores, Juniors and Seniors enrolled in Agriculture Education Program
Prerequisites: AGECP1870 Agricultural Education 1
Weight: College Prep
Duration/Credit: .5 Credit
Course Designation: STEM

The following topics will be covered throughout the course: the history and evolution of the horse, functional anatomy and physiology, common diseases of equines, parasite and disease prevention, nutrition, equine

behavior, training methods, riding disciplines, and breeds. The course will include field trips and lab activities.

PROJECTS IN PLANT SCIENCE

Course Number: AGECP1844
Open To: Sophomores, Juniors and Seniors enrolled in Agriculture Education Program
Prerequisites: AGECP1870 Agricultural Education 1
Weight: College Prep
Duration/Credit: .5 Credit
Course Designation: STEM

Students will learn basic horticultural content and skills in the greenhouse, including care and maintenance. Students must be prepared to work in the greenhouses and outdoors, as well as complete oral and written assignments.

BEHAVIOR AND TRAINING OF DOMESTIC ANIMALS

Course Number: AGECP1845
Open To: Sophomores, Juniors and Seniors enrolled in Agriculture Education Program
Prerequisites: AGECP1870 Agricultural Education 1
Weight: College Prep
Duration/Credit: .5 Credit
Course Designation: STEM

Students will examine the reasons we domesticated certain animals and how they are used in society. Training methods are explored to get desired behavioral results. Students must be prepared to work in the barn and outdoors with animals.

SUSTAINABLE FOOD PRODUCTION

Course Number: AGECP1849
Open To: Grade 9-11 students who are enrolled in Agriculture Education Program
Prerequisites: AGECP1870 Agricultural Education 1
Weight: College Prep
Duration/Credit: 1 semester/.5 credit
Course Designation: STEM

This course is designed for students to explore how food production has evolved over time and current research on sustainable agricultural practices. Units place an emphasis on the connection between human health, animal health, and environmental health in order for students to develop a better understanding of how food production practices influence society. Students will be able to participate in class activities and field trips that explore different sustainable agricultural practices and efforts, as well as engage in meaningful class discussions that center around future agricultural technologies.

ART DEPARTMENT

[Click here to return to Table of Contents](#)

| Course # | Title | Level | Credit | Duration | Grade |
|-----------------|------------------------|--------------|---------------|-----------------|--------------|
| ARTCP1702 | Art Exploration | College Prep | .5 | Semester | 9-12 |
| ARTCP1730 | Craft Arts | College Prep | .5 | Semester | 9-12 |
| ARTCP1704 | Drawing 1 | College Prep | .5 | Semester | 9-12 |
| ARTCP1750 | Drawing 2 | College Prep | .5 | Semester | 10-12 |
| ARTCP1706 | Painting 1 | College Prep | .5 | Semester | 9-12 |
| ARTCP1752 | Painting 2 | College Prep | .5 | Semester | 10-12 |
| ARTCP1708 | Sculpture 1 | College Prep | .5 | Semester | 9-12 |
| ARTCP1738 | Sculpture 2 | College Prep | .5 | Semester | 9-12 |
| ARTCP1710 | Digital Photography 1 | College Prep | .5 | Semester | 9-12 |
| ARTCP1732 | Digital Photography 2 | College Prep | .5 | Semester | 9-12 |
| ARTCP1754 | Digital Photography 3 | College Prep | .5 | Semester | 10-12 |
| ARTCP1758 | Photography Leadership | College Prep | .5 | Semester | 12 |
| ARTCP1712 | Graphic Design 1 | College Prep | .5 | Semester | 9-12 |
| ARTCP1734 | Graphic Design 2 | College Prep | .5 | Semester | 9-12 |
| ARTCP1716 | Digital Imaging | College Prep | .5 | Semester | 10-12 |

ART EXPLORATION

Course Number: ARTCP1702
 Open To: Grades 9-12
 Prerequisites: None
 Weight: College Prep
 Duration/Credit: Semester/.5 Credit
 Course Designation: Humanities

Students will explore a variety of materials to create 2-d and 3-d artwork while investigating design concepts to improve their work. Students investigate a wide variety of art such as cartooning, abstract art, and surrealism. Students at any stage of experience will gain inspiration from design concepts, nature, and other artists. Students will learn an artist's vocabulary, apply concepts, and practice skills to improve their visual process.

CRAFT ARTS

Course Number: ARTCP1730
 Open To: Grades 9-12
 Prerequisites: None
 Weight: College Prep
 Duration/Credit: Semester/.5 Credit
 Course Designation: Humanities

Students will develop craftsmanship, apply design concepts and experiment with a variety of materials and creative processes to produce personally meaningful art objects. They will create mosaic designs, explore printmaking, and sculpt functional and decorative ceramic pieces.

DRAWING 1

Course Number: ARTCP1704
Open To: Grades 9-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit
Course Designation: Humanities

This course will focus on the fundamentals of drawing. Emphasis will be placed on the drawing process (seeing vs. looking). Students will work with a variety of different drawing media and learn and experiment with many techniques. A range of subject matter will be explored including observation, still life, portraiture, texture studies, perspective, and non-objective, and/or imaginative images. This course is designed to train you on how to see, think, and work as an artist. We will practice a variety of skill-building techniques that help with drawing what you see, creating detail, and adding interest and variety to your drawings to capture interest.

DRAWING 2

Course Number: ARTCP1750
Open To: Grades 10-12
Prerequisites: Fundamentals of Drawing
Weight: College Prep
Duration/Credit: Semester/.5 Credit
Course Designation: Humanities

This course is open to students who have completed the drawing 1 course and have a sincere interest in advancing their drawing skills. Students will be introduced to various new drawing media and techniques. Classroom drawing problems will be assigned to challenge the students' creativity and technical skills using various drawing media such as pencil, oil and chalk pastels, charcoal, conte crayon, and ink. There will be a strong focus on the importance of mark-making and drawing from real-life observation with additional assignments allowing for student choice. Students will be asked to create weekly Ipad drawings using Procreate. There will be several additional sketchbook drawing assignments that students will be responsible for. Drawing 2 students are expected to show increased mastery of vocabulary, material use, art processes, craftsmanship, & critique.

PAINTING 1

Course Number: ARTCP1706
Open To: Grades 9-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit
Course Designation: Humanities

Students will learn to mix countless variations of color and gain and understanding of the hue, value and intensity inherent in “a color.” Students will experiment with abstract design, paint landscapes to transport the viewer to a place and time, and paint still life compositions that convince the viewer of 3D form and space. Students explore contrast and color schemes and ways to apply paint as they complete many small paintings using *gouache*, a type of watercolor, and oil paint in this one semester course.

PAINTING 2

Course Number: ARTCP1752
Open To: Grades 10-12
Prerequisites: Painting 1
Weight: College Prep
Duration/Credit: Semester/.5 Credit
Course Designation: Humanities

This course is for students who will enjoy deepening their painting and drawing skills. Emphasis will be placed on creating dynamic compositions with individualized subjects and color schemes. Sketching and collage exercises will precede paintings. Students will work at a faster pace and work on a larger scale than in Painting 1.

SCULPTURE 1

Course Number: ARTCP1708
Open To: Grades 9-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit
Course Designation: Humanities/STEM

Students will experiment with plaster, clay, wood, stone, paper and found objects and investigate various methods of construction such as carving, modeling and assembly. Their creative designing and crafting abilities will develop as they confront the space and balance concerns that are particular to 3-dimensional art. Students who enjoy tactile materials will enjoy the hands-on experience of creating sculptural art.

SCULPTURE 2

Course Number: ARTCP1738
Open To: Grades 9-12
Prerequisites: Fundamentals of Sculpture
Weight: College Prep
Duration/Credit: Semester/.5 Credit
Course Designation: Humanities/STEM

Students will further the craftsmanship and constructing skill gained in their Sculpture 1 experience. Students are assigned project criteria but are also expected to explore personal artist intent for each project. Students create a process journal that documents their pre-construction research and reflections on the intent, construction, and outcome of each project. This course is best suited for upperclassmen who enjoyed Sculpture 1.

DIGITAL PHOTOGRAPHY 1

Course Number: ARTCP1710
Open To: Grades 9-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit
Course Designation: Humanities/STEM

In Digital Photography 1 students will learn how to use a Nikon DSLR camera in manual mode, as well as basic editing techniques in Adobe Photoshop. Students participate in a number of projects that explore various photographic concepts and work on developing their understanding of design principles. The class will also involve critiques, field trips, creating a portfolio of work, and a brief look at the history of photography.

DIGITAL PHOTOGRAPHY 2

Course Number: ARTCP1732
Open To: Grades 9-12
Prerequisites: Digital Photography 1
Weight: College Prep
Duration/Credit: Semester/.5 Credit
Course Designation: Humanities/STEM

This course covers advanced image making. Students will explore career related approaches to photography such as photojournalism, fine arts, portraiture/fashion, and product. Students will photograph in a professional lighting studio, on location during field trips, and at home. Students will study the work of professional photographers, generate, and execute original concepts, participate in class critiques, and produce a portfolio of their work.

DIGITAL PHOTOGRAPHY 3

Course Number: ARTCP1754
Open To: Grades 10-12
Prerequisites: Digital Photography 2
Weight: College Prep
Duration/Credit: Semester /.5 Credit
Course Designation: Humanities/STEM

This course focuses on conceptual photography and experimental photographic techniques. Students will be working with composites, photomontage, long exposures, double exposures, photo transfers, filters, and more. They will work collaboratively throughout the semester to develop and grow a series of projects that effectively communicate their concepts to a viewer. Students will photograph assignments in school, at home, and on location during field trips. If you are interested in defining your personal aesthetic as a photographer, building a portfolio of work, or simply continuing your interest in all photography has to offer, then this class is for you. You must make time outside of school and be able to work independently to be successful in this class!

PHOTOGRAPHY LEADERSHIP

Course Number: ARTCP1758
Open To: Grade 12
Prerequisites: Successful completion of Photo 1, 2, 3 and teacher approval
Weight: College Prep
Duration/Credit: Semester/.5 Credit
Course Designation: None

Students who qualify for this program will be teamed with a teacher to assist with:

- Development of vocational skills using photographic equipment and technology.
- Visual design development of student portfolios.

GRAPHIC DESIGN 1

Course Number: ARTCP1712
Open To: Grades 9-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit
Course Designation: Humanities/STEM

This course is designed to introduce students to the field of digital design. In this course, students will focus on understanding and confidently using Adobe Illustrator. In this course, students will begin to explore the power of Adobe Illustrator by learning the functionality of the various tools available. There will also be a strong emphasis on learning the principles of design and using them in order to create impact and clearly communicate with an audience. Students will work in groups to reflect and critique work throughout the semester. Student assessment in this course will be project-based.

GRAPHIC DESIGN 2

Course Number: ARTCP1734
Open to: Grades 9-12
Prerequisites: Graphic Design 1
Weight: College Prep
Duration/Credit: Semester/.5 Credit
Course Designation: Humanities/STEM

This course is designed for serious art and graphics students who wish to pursue knowledge in the area of computer-generated design. Students in Graphic Design 2 will continue to explore various design situations that require them to create real-life and unique visual solutions. Adobe Photoshop will be introduced and used alongside Adobe Illustrator. Students will be able to work within both of these programs confidently and independently to solve more challenging design assignments. Students will evaluate themselves and others through written and oral critiques. Student assessment in this course will be project-based.

DIGITAL IMAGING

Course Number: ARTCP1716
Open to: Grades 10-12
Prerequisites: Graphic Design 2 or Digital Photography 1
Weight: College Prep
Duration/Credit: Semester/.5 Credit
Course Designation: Humanities/STEM

This course is a Fine Arts approach in computer imaging. Students will be working in Adobe Photoshop to create original works of art using a variety of resources together including photographs, scanned images and objects, digital painting, and more. Students will develop a deep understanding of how Photoshop tools work and be expected to carry this knowledge forward in each project showing more developed and skilled Fine Art Photographs with each assignment. Various professional Digital Artists will be studied as we approach different ways of turning photographs into layered works of art. Students will be able to use an SLR digital camera to take their own photographs. Digital Photography 1&2 are not prerequisites but are highly recommended.

INDEPENDENT STUDY IN DRAWING, PAINTING, GRAPHIC DESIGN, PHOTOGRAPHY, DIGITAL IMAGING

Course Number: To Be Assigned
Open To: Grades 11-12
Prerequisites: TBD
Weight: College Prep
Duration/Credit: TBD
Course Designation: Humanities

1. Only those students who have completed all sequential classes within the desired area (i.e., Art, Graphic Design, Drawing, Photography, Digital Imaging, and Painting may apply).
2. Students must maintain at least a “B” average in all courses in the field of interest.
3. The principal will consider all Independent Study applications. Approval will depend on all criteria being met, space availability in classrooms, and completion of written curriculum for the specific Independent Study.
4. If a student wants to go beyond 1 credit with the Independent Study in a certain field, he/she needs to present a portfolio.

BUSINESS & COMPUTER SCIENCE DEPARTMENT

[Click here to return to Table of Contents](#)

| Course # | Title | Level | Credit | Duration | Grade |
|-----------------|--------------------------------|--------------|---------------|-----------------|--------------|
| BUSCP1610 | First-Year Experience | College Prep | .5 | Semester | 9 |
| BUSCP1614 | Computer Literacy | College Prep | .5 | Semester | 10-12 |
| BUSCP1618 | Introduction to Business | College Prep | .5 | Semester | 9-12 |
| BUSCP1620 | Entrepreneurship | College Prep | .5 | Semester | 10-12 |
| BUSCP1622 | Marketing | College Prep | 1 | Year | 10-12 |
| BUSCP1624 | Business Management | College Prep | 1 | Year | 10-12 |
| BUSCP1629 | Sport Management | College Prep | .5 | Semester | 10-12 |
| BUSCP1631 | Business Communication | College Prep | .5 | Semester | 11-12 |
| BUSCP1634 | Personal Finance | College Prep | .5 | Semester | 11-12 |
| BUSCP1636 | International Business | College Prep | .5 | Semester | 10-12 |
| BUSCP1639 | Business Law | College Prep | .5 | Semester | 10-12 |
| BUSCP1640 | Accounting 1 | College Prep | 1 | Year | 10-12 |
| BUSHN1645 | Accounting 2 | Honors | 1 | Year | 11-12 |
| BUSHN1647 | Accounting 3 | Honors | 1 | Year | 12 |
| BUSCP1642 | App Creators | College Prep | .5 | Semester | 9-12 |
| BUSHN1642 | App Creators | Honors | .5 | Semester | 9-12 |
| BUSCP1641 | Introduction to Data Science | College Prep | .5 | Semester | 9-12 |
| BUSHN1641 | Introduction to Data Science | Honors | .5 | Semester | 9-12 |
| BUSHN1650 | Introduction to Programming | Honors | 1 | Year | 9-12 |
| BUSAP1642 | AP Computer Science Principles | AP | 1.5 | Year | 10-12 |
| BUSAP1653 | AP Computer Science A | AP | 1.5 | Year | 10-12 |
| BUSCP1655 | Digital Marketing 1 | College Prep | 1 | Year | 10-12 |
| BUSCP1656 | Digital Marketing 2 | College Prep | 1 | Year | 10-12 |
| BUSCP1659 | Hospitality | College Prep | .5 | Semester | 10-12 |
| BUSCP1670 | Yearbook | College Prep | 1 | Year | 11-12 |

FIRST-YEAR EXPERIENCE

Course Number: BUSCP1610
 Open to: Grade 9 – *Strongly recommended for all freshmen*
 Prerequisites: None
 Weight: College Prep
 Duration/Credit: Semester/.5 Credit
 PGR: #1 Education/Career Portfolio – 1.2 and 1.3
 Course Designation: Humanities

What's your future??? This course is designed for all students to explore their career options through self-discovery using the *Career Choices* curriculum. Whether a student plans to attend college or work after high school, this course will allow students to develop a personalized, career and educational plan. This will help students develop goals and have a clear sense of direction for their high school years and beyond. Students will be exposed to all career pathway options at KHS, and then they can take courses in their personal areas of interest

and work toward their career goals. Some topics covered include career research, study skills, decision-making, budgeting, and goal setting.

COMPUTER LITERACY

Course Number: BUSCP1614
Open to: Grades 10-12; *This course is eligible for college credit through QVCC and is strongly recommended as a prerequisite for all other business computer courses.*
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit
PGR: #1 Education/Career Portfolio – 1.5 and 1.6; #2 Use of Computer Technology
Course Designation: STEM

This course will deliver the skills you need to effectively use computers during high school and college. You will learn how to operate effectively within the desktop environment, manage and organize files, manage print jobs, and discuss email etiquette and use of social media. You will practice creating various projects that are targeted to specific audiences or situations using Word, Excel, PowerPoint and Access. Internet research skills will be expanded. There will be a focus on time management and organization skills, as well as use of rubrics for completing work in a professional manner. Successful completion of this course fulfills your computer literacy requirement for graduation. Students may earn 3 college credits by successfully completing this course and enrolling in the QVCC College Career Pathways program.

INTRODUCTION TO BUSINESS

Course Number: BUSCP1618
Open to: Grades 9-12 (*students who have not taken higher level business courses*)
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit
Course Designation: Humanities

This fun, interactive course will give you the opportunity to experience many different aspects of the business world. Learn how to invest in stocks by playing the stock market game using an online platform, develop team-building skills, create advertising campaigns, use a checkbook, create stimulating presentations, and much more. Explore business topics including entrepreneurship, economics, banking/finance, and marketing using a hands-on approach to learning. There are no textbooks here . . . just exciting activities to showcase how to survive in our ever-changing business world.

ENTREPRENEURSHIP

Course Number: BUSCP1620
Open to: Grades 10-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit
Course Designation: Humanities

An entrepreneur is a person who organizes, operates, and assumes the risk of a new business. This course introduces you to the principles of entrepreneurship and business ethics as you examine all the major steps

involved in starting a new business, including the marketing, financing, managing, and legal aspects. This course provides you with the knowledge needed to realistically evaluate your potential as a business owner. You will develop a business plan and learn what it takes to get an entrepreneurial venture off to a good start. Market research, budgeting, selecting a business location, and financing the business are covered using real-life examples that you can relate to. During the course, the class will start their own business, and implement the skills you learned about being a successful business owner.

MARKETING

Course Number: BUSCP1622
Open to: Grades 10-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Year/1 Credit
Course Designation: Humanities

Marketing is everything a business does to place their product or service in the hands of potential customers. This includes selecting the right product, price, placement and most importantly, promotion. Every commercial, ad, email, junk mail, package we see, and website we visit makes us a part of marketing every day. We as consumers get to decide which products or services are successful based on what we purchase. During the course, the class will collaborate to create, market, and sell a product through a class business. We will learn about market research, understanding the customer, product development, advertising, pricing, marketing plans, and much more. The Virtual Business – Retailing simulation will also be used.

BUSINESS MANAGEMENT

Course Number: BUSCP1624
Open to: Grades 10-12 – *This class may earn college credits through QVCC.*
Prerequisites: None
Weight: College Prep
Duration/Credit: Year/1 Credit
Course Designation: Humanities

Successful managers are able to organize, lead, and direct the employees of a business. They are leaders who understand the benefits of teamwork. They recognize the importance of technology and information management in the decision-making process and the value of ethics and social responsibility in building and maintaining business relationships. You will examine difficult ethical issues and develop team leadership skills. Concepts will be reinforced through participation in many hands-on activities designed to simulate real-world business situations. You will apply your new skills through managing the school store, **The Red Zone**.

SPORT MANAGEMENT

Course Number: BUSCP1629
Open to: Grades 10-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit
Course Designation: Humanities

This course is an introduction to the structure of the sports industry and the variety of career opportunities in the area. The value of professional management to sports organizations will be emphasized. Attention will be given to the current issues facing sport organizations and the management techniques used to solve these problems. Students will work in teams and compete against each other in a Virtual Business – Sports Simulation. Each team will operate a football franchise through a series of lessons, a new franchise project, and multiplayer competitions.

BUSINESS COMMUNICATION

Course Number: BUSCP1631
Open to: Grades 11-12 – *This class may earn college credits through ECSU.*
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit
PGR: #5 Oral Communication; #1.7 Updated Resume & Reference Sheet
Course Designation: Humanities

This course is an introduction to the principles of communication as they apply to situations in the workplace. Topics include listening skills; interpersonal communication in the workplace; organizational culture and diversity; interviewing skills; communicating in groups, teams, and meetings; and developing effective presentations. Students will learn how to prepare, practice, and deliver professional speeches. Emphasis will be placed on professional business writing skills as well as analytical reading strategies. Students may earn 3 college credits by successfully completing this course and enrolling in the ECSU Dual Enrollment Program.

PERSONAL FINANCE

Course Number: BUSCP1634
Open To: Grades 11-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit
Course Designation: STEM

This is one of the most important courses you can take in high school. No matter what career field you go into, or how much money you make, you will need to carefully manage your finances. Too many young people are entering college and the workforce not knowing how to budget, manage their time, use banking services, balance a checkbook, use financial apps, invest, and save, use credit wisely, and have proper insurance. In this course we will cover six modules: Financial Planning, Borrowing (Credit), Earnings, Investing, Banking Services, and Insurance. Students will participate in “real world” scenarios to gain a better understanding on how to meet their financial goals. The Virtual Business – Personal Finance simulation will also be used.

INTERNATIONAL BUSINESS

Course Number: BUSCP1636
Open to: Grades 10-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit
Course Designation: Humanities

International Business is designed to help students develop the appreciation, knowledge, and skills needed to live and work in a global marketplace. This course will raise awareness of the cultural and political business customs and practices of many different countries. Students will have the opportunity to explore the basic concepts essential to understanding international finance, management, marketing, and trade relations. Upon completion, students will understand how and why businesses choose to expand their operations into other nations.

BUSINESS LAW

Course Number: BUSCP1639
Open To: Grades 10-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit
Course Designation: Humanities

Business Law is designed to introduce students to the study of law through a brief look at the origin of law, the U.S. legal system, ethics, functions of the federal and state court systems, civil and criminal law, and contracts. This course will help students become aware of their rights and responsibilities so they can function as responsible citizens in their personal and professional lives. This course will provide an insight to the numerous careers offered within this field of study. Students will also have the opportunity to practice their argumentative and debating skills in a respectful atmosphere.

ACCOUNTING 1

Course Number: BUSCP1640
Open To: Grades 10-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Year/1 Credit
Course Designation: STEM

This hands-on course focuses on double-entry financial accounting. A complete accounting cycle is presented from the opening entry through the preparation and interpretation of financial reports using generally accepted accounting principles for a service business. Students may earn college credit by successfully completing Accounting 1 and 2 and enrolling in the College Career Pathways Program through Quinebaug Valley Community College.

ACCOUNTING 2

Course Number: BUSHN1645
Open To: Grades 11-12 – *This class may earn college credits through QVCC.*
Prerequisites: Successful completion of Accounting 1
Weight: Honors
Duration/Credit: Year/1 Credit
Course Designation: STEM

This fast-paced course continues to develop understanding and competence in the basic accounting principles acquired in Accounting 1. Emphasis will be on the accounting procedures for a merchandising business. Whether you plan to start a company or pursue a career, you will find that a solid understanding of the financial aspects of business activity is highly desirable. Emphasis will be placed on interpreting and analyzing financial statements

to evaluate the performance of an organization. Students may earn 3 college credits by successfully completing Accounting 1 and 2 and enrolling in the College Career Pathways Program through Quinebaug Valley Community College.

ACCOUNTING 3

Course Number: BUSHN1647
Open To: Grade 12
Prerequisites: Successful completion of Accounting 2
Weight: Honors
Duration/Credit: Year/1 Credit
Course Designation: STEM

Advanced accounting concepts for a merchandising corporation will be discussed, and accounting software used in an automated accounting cycle will be introduced. Emphasis will be placed on interpreting and analyzing financial statements to evaluate the performance of an organization. Independent, inquiry-based study will be stressed to expose students to a higher level of learning. Students will explore topics in various accounting disciplines including cost accounting, managerial accounting, and forensic accounting.

APP CREATORS

Course Number: BUSCP1642/BUSHN1642
Open to: Grades 9-12
Prerequisites: None
Weight: College Prep/Honors
Duration/Credit: Semester/0.5 Credits
Course Designation: STEM

Take out your phones—let's create apps for iOS and Android to share with friends! App Creators is a fun, introductory course that uses easy, block-based programming languages to develop mobile applications. Creative, student-inspired projects include music apps, animation apps, language translation apps, health & fitness apps, social media apps, culinary apps, and many original games. There are no quizzes or tests in this collaborative, project-based course. Students apply an iterative design process similar to what artists, writers, scientists, and engineers use to bring innovative ideas to life. All students in App Creators grow the confidence and computational thinking skills that are in demand across all career fields—no prior computing experience is necessary.

INTRODUCTION TO DATA SCIENCE

Course Number: BUSCP1641/BUSHN1641
Open to: Grades 9-12
Prerequisites: None
Weight: College Prep/Honors
Duration/Credit: Semester/0.5 Credits
Course Designation: STEM

Data Science drives insight and innovation in all career fields, from agriculture to biotech, from entrepreneurship to engineering, from social media to sociology—just to name a few. The economist Steven D. Levitt calls this Freakonomics: marrying a rogue curiosity to an economic approach that uncovers the *hidden side of everything*. What does your first name tell the world? How do we prove that an athlete is cheating? Can racism be measured?

Why do drug dealers still live with their moms? Can healthcare be fixed? Did the Endangered Species Act endanger more animals? Introduction to Data Science (IDS) is an engaging, inquiry- and project-based computer science course that uses the Pyret programming language to explore large data sets. IDS equips students with marketable skills and provocative insights into the social, environmental, physical, and economic forces that shape their choices and lives.

INTRODUCTION TO PROGRAMMING

Course Number: BUSHN1650
Open to: Grades 9-12 – *This class may earn college credits through QVCC.*
Prerequisites: Successful completion of Algebra 1 or higher
Weight: Honors
Duration/Credit: Year/1 Credit
Course Designation: STEM

Introduction to Programming is a hands-on course that empowers all students to develop creative solutions to a broad array of real-world problems. Students learn Java, a text-based programming language used by virtual telemedicine chatbots, special effects firms like Industrial Light and Magic, social media and cloud computing, data mining and scientific research, NASA mission software, hundreds of games, and thousands of mobile apps. There are few quizzes or tests in this project-based course. Students work both collaboratively and independently to grow the confidence and computational thinking skills that are in demand across all career fields--no prior computing experience is necessary. Students may earn college credit by successfully completing this course and enrolling in the College Career Pathways Program through Quinebaug Valley Community College.

AP COMPUTER SCIENCE PRINCIPLES

Course Number: BUSAP1642
Open to: Grades 10-12
Prerequisites: Algebra 1 or Permission of Instructor
Weight: AP
Duration/Credit: Year /1.5 Credits (only 1.00 during the day)
Course Designation: STEM

Take out your phones--let's create apps for iOS and Android to share with friends! AP Computer Science Principles (CSP) is a fun, introductory course that uses easy, block-based programming languages to develop mobile applications. Creative, student-inspired CSP projects include: music apps, animation apps, language translation apps, health & fitness apps, social media apps, geomatics apps, stock market apps, culinary apps, and many original games. Students apply an iterative design process similar to what artists, writers, scientists and engineers use to bring innovative ideas to life. This project-based course focuses on five big ideas: Creative Development, Data, Algorithms and Programming, Computer Systems and Networks, and Impact of Computing; there are few quizzes or tests. In CSP all students grow the confidence and computational thinking skills that are in demand across all career fields--no prior computing experience is necessary.

AP COMPUTER SCIENCE A

Course Number: BUSAP1643
Open to: Grades 10-12
Prerequisites: Algebra 1 or Permission of Instructor
Weight: AP
Duration/Credit: Year /1.5 Credits (only 1.00 during the day)

Course Designation: STEM

AP® Computer Science A (CSA) is a rigorous capstone course for dedicated STEM majors who recognize that computing skills are paramount in *all* technical fields today. In CSA students learn to develop in Java, a text-based programming language used by virtual telemedicine chatbots, special effects firms like Industrial Light and Magic, social media and cloud computing, data mining and scientific research, NASA mission software, hundreds of games, and thousands of mobile apps. During weekly labs CSA students develop scalable solutions to real-world problems as they learn object-oriented, procedural, and iterative design paradigms. The human side of computing—including ethical and social implications—are central to CSA. Dedicated students with strong problem-solving skills can take CSA as their first computer science course; other students should complete an introductory computer science class before enrolling in this challenging capstone course.

DIGITAL MARKETING 1

Course Number: BUSCP1655
Open To: Grades 10-12
Prerequisites: Successful completion of Computer Literacy
Weight: College Prep
Duration/Credit: Year/1 Credit
Course Designation: STEM

This course is designed to introduce you to the world of digital marketing, which involves the advertising of products and services using digital technologies like the Internet, social media, and mobile phones. Technology has become a big part of modern-day business and has grown to become a critical communication tool to provide improved customer service, foster new relationships, and support loyal customers. We will learn about topics such as email marketing, social media networks, display ads, and mobile marketing. We will also learn the basics of Adobe Photoshop and how this program can be used to produce effective promotional materials for use on the Internet and mobile applications.

DIGITAL MARKETING 2

Course Number: BUSCP1656
Open To: Grades 11-12
Prerequisites: Digital Marketing 1 or permission of instructor
Weight: College Prep
Duration/Credit: Year/1 Credit
Course Designation: STEM

This course will cover advanced digital marketing topics, building on what was learned in Digital Marketing 1. We will also incorporate learning to use Adobe Illustrator. We will then use our knowledge of Adobe applications to produce effective promotional materials for use on the Internet and mobile applications and apply that in real-world simulations.

HOSPITALITY

Course Number: BUSCP1659
Open To: Grades 10-12
Prerequisite: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit

Course Designation: Humanities

Do you like to travel? Go out to eat? Stay in a hotel? Did you ever think about the people it takes to make those experiences so memorable? This introduction to hospitality course is designed to provide students with an overview of several potential career opportunities within the industry including restaurants, hotels, resorts, theme parks, entertainment venues, casinos, cruise lines and event planning. Students will be introduced to the many local tourist attractions within eastern Connecticut and its surrounding areas. The Virtual Business – Hotel simulation will also be used.

YEARBOOK

Course Number: BUSCP1670

Open To: Grades 11-12

Prerequisite: None

Weight: College Prep

Duration/Credit: Year/1 Credit

Course Designation: Humanities (fulfills *Visual Arts* requirement)

Yearbook is a course open to students who are interested in leadership positions in yearbook production. As part of the Yearbook team, you will learn and apply skills in journalism, business, and technology. You'll also learn soft skills like communication, creative thinking, leadership, time management, problem solving, and team building. You'll work with a publisher, businesses, have real deadlines and publish a book to be proud of at the close of the year. You may be expected to work and complete tasks outside of classroom time as needed.

ENGLISH DEPARTMENT

[Click here to return to Table of Contents](#)

| Course # | Title | Level | Credit | Duration | Grade |
|-----------------|---|--------------|---------------|-----------------|--------------|
| ENGHN1010 | Honors English 1 # | Honors | 1 | Year | 9 |
| ENGCP1012 | CP English 1 College/Career Readiness # | College Prep | 1 | Year | 9 |
| ENGHN1020 | Honors English 2 # | Honors | 1 | Year | 10 |
| ENGCP1022 | CP English 2 # | College Prep | 1 | Year | 10 |
| ENGGN1024 | General English 2 # | General | 1 | Year | 10 |
| ENGEC1030 | AP/ECE Language and Composition 3 # | AP/ECE | 1.5 | Year | 11 |
| ENGHN1032 | Honors American Literature 3 # | Honors | 1 | Year | 11 |
| ENGCP1034 | CP American Literature 3 # | College Prep | 1 | Year | 11 |
| ENGGN1036 | General American Literature 3 # | General | 1 | Year | 11 |
| ENGAP1040 | AP English 4 # | AP | 1.5 | Year | 12 |
| ENGHN1041 | Honors English 4 # | Honors | 1 | Year | 12 |
| ENGCP1042 | CP English 4 # | College Prep | 1 | Year | 12 |
| ENGGN1044 | General English 4 | General | 1 | Year | 12 |
| ENGGN1006 | Academic Literacy* | General | .5 | Year | 9-10 |
| ENGCP1062 | Creative Writing CP | College Prep | .5 | Semester | 9-12 |
| ENGCP1080 | Journalism 1 | College Prep | 1 | Year | 10-12 |
| ENGHN1082 | Journalism 2 | Honors | 1 | Year | 11-12 |
| ENGCP1086 | Theatre Arts | College Prep | .5 | Semester | 9-12 |

*Enrollment in Academic Literacy is by teacher or counselor placement only.

NCAA approved course

HONORS ENGLISH 1

Course Number: ENGHN1010

Open To: Grade 9

Prerequisites: Placement based on grade 8 instructor recommendation, writing sample, and reading level.

Weight: Honors

Duration/Credit: Year/1 Credit

Course Designation: Humanities

Aligned with Connecticut's Core Standards, this accelerated course helps develop proficiency in a wide spectrum of reading, writing, speaking, listening, and language skills. In literature, emphasis is placed upon both fiction and non-fiction, including the study of short stories, poetry, dramas, novels, speeches and essays. Composition skills and vocabulary are developed in conjunction with literary study. Students take part in group projects and are required to make oral presentations. Students write in-depth critical essays on all novels as well as a research paper.

CP ENGLISH 1 COLLEGE CAREER READINESS

Course Number: ENGCP1012

Open To: Grade 9

Prerequisites: None

Weight: College Prep
Duration/Credit: Year/1 Credit
Course Designation: Humanities

Aligned with Connecticut's Core Standards, this course helps develop proficiency in a wide spectrum of reading, writing, speaking, listening, and language skills. In literature, emphasis is placed upon both fiction and non-fiction, including the study of short stories, poetry, dramas, novels, speeches, and essays. Composition skills and vocabulary are developed in conjunction with literary study. Students take part in group projects and are required to make oral presentations. Students write critical essays on all novels as well as a research paper.

HONORS ENGLISH 2

Course Number: ENGHN1020
Open To: Grade 10
Prerequisites: Placement based on grade 9 instructor recommendation, writing sample, and reading level. Summer reading required.
Weight: Honors
Duration/Credit: Year/1 Credit
PGR: #5 Oral Communication, #7 Response to Literature
Course Designation: Humanities

This course is an accelerated program designed to refine analytical thinking and writing skills for students who have already exhibited competency in interpretation and response to literature. It offers a study of literature, represented through classic and contemporary examples of poetry, dramas, short stories, and novels. The class is reading and writing intensive, typically demanding the study of a major literary piece every three to four weeks. Students submit revised drafts throughout the writing process of each major analytical essay and write a major literary research paper.

CP ENGLISH 2

Course Number: ENGCP1022
Open To: Grade 10
Prerequisites: Grade 9 English
Weight: College Prep
Duration/Credit: Year/1 Credit
PGR: #5 Oral Communication, #7 Response to Literature
Course Designation: Humanities

This course develops the student's ability to understand, discuss, and write critically about literature according to the study of the conventions of the short story, novel, drama, essay, and poetry. Composition stresses refinement of structure and organization of critical essay writing, as well as proper grammar and mechanics. In addition to writing critical essays about each novel, students write a research paper and write creatively. Students take part in class discussions as well as research and present a speech.

GENERAL ENGLISH 2

Course Number: ENGGN1024
Open To: Grade 10
Prerequisites: Grade 9 English

Weight: General
Duration/Credit: Year/1 Credit
PGR: #1 Education/Career Portfolio – 1.3 Occupation Information Summary Report
#5 Oral Communication, #7 Response to Literature
Course Designation: Humanities

This course develops the student's ability to understand, discuss, and write critically about literature according to the study of the conventions of the short story, novel, drama, essay, and poetry. Composition stresses refinement of structure and organization of critical essay writing, as well as proper grammar and mechanics. In addition to writing critical essays about each novel, students write a research paper and write creatively. Students take part in class discussions and present a speech.

AP/ECE LANGUAGE AND COMPOSITION

Course Number: ENGEC1030
Open To: Grade 11
Prerequisites: Placement based on grade 10 instructor recommendation, writing sample, and reading level. Summer reading required.
Weight: Advanced Placement
Duration/Credit: Year /1.5 Credits (only 1 during the day)
*This class may earn college credits through UCONN**
PGR: #5 Oral Communication, #7 Response to Literature
Course Designation: Humanities

The AP/ECE Language and Composition course focuses on instruction in academic writing through interdisciplinary reading. Students engage with nonfiction texts through close reading, the study of rhetoric, and discussion. Writing assignments emphasize interpretation, argumentation, and reflection. The course stresses revision of formal assignments and instruction on grammar, mechanics, and style. Students will write a minimum of thirty pages of revised, formal prose and design a couple of multimodal compositions. In addition to drafted pieces, students can expect to practice timed writing, read extensively outside of class, and conduct presentations. The course is approved by the University of Connecticut, and any enrolled student can earn four college credits.

* Students can also earn credit by taking the (required) Advanced Placement Examination.

****To earn the 3 available UCONN credits, students must complete the UCONN Early College Experience (ECE) application and enrollment steps, and submit any applicable course fees.****

HONORS AMERICAN LITERATURE 3

Course Number: ENGHN1032
Open To: Grade 11
Prerequisites: Placement based on grade 10 instructor recommendation, writing sample, and reading level. Summer reading required.
Weight: Honors
Duration/Credit: Year/1 Credit
PGR: #5 Oral Communication, #7 Response to Literature
Course Designation: Humanities

THE DEVELOPMENT AND ANALYSIS OF AMERICAN LITERATURE

Honors American Literature 3 is an accelerated program open to students who have exhibited superior ability in reading, sophistication in the use of language, and skill in discerning levels of meaning in language and literature.

Students should be independent learners. The course covers a wide range of time periods as well as cultural and literary movements such as Native Americans, Puritans, Transcendentalism, Romanticism, and twentieth-century authors. The historical development of American literature, with a survey of selected poetry, dramas, short stories, essays, and novels, serves as a basis for intensive class discussion, bi-weekly formal thesis essays, and a research paper. Creative writing is stressed as a means by which students demonstrate their understanding of interpretive and analytical applications of authors' ideas discussed throughout the course. This course is writing intensive. Students will prepare daily reading assignments and take part in classroom discussions. Summer reading is a requirement.

CP AMERICAN LITERATURE 3

Course Number: ENGCP1034
Open To: Grade 11
Prerequisites: Recommendation by Grade 10 instructor
Weight: College Prep
Duration/Credit: Year/1 credit
PGR: #5 Oral Communication, #7 Response to Literature
Course Designation: Humanities

THE DEVELOPMENT OF AMERICAN LITERATURE

This course is designed to enhance students' ability to analyze, interpret, and respond to literature. The course focuses on students developing their own voice in both oral presentations and written expression. It is topically concerned with the study of American literature ranging from the Native Americans, Puritan/Colonial Period, Romanticism, Transcendentalism, and the Modern Age. The course emphasizes understanding of the historical development of American literature through the study of historical context, lifestyles, culture, and literary genres. Students are expected to write critical essays, complete a research paper, and develop creative writing skills. Students will research, write, and deliver speeches as well as work in groups.

GENERAL AMERICAN LITERATURE 3

Course Number: ENGGN1036
Open To: Grade 11
Prerequisites: Recommendation by Grade 10 instructor.
Weight: General
Duration/Credit: Year/1 Credit
PGR: #5 Oral Communication, #7 Response to Literature
Course Designation: Humanities

THE AMERICAN EXPERIENCE

Students learn about American literature from Native American, Puritan/Colonial, a Romantic/Transcendental, and Modern Periods. A critical approach to thematic understanding is emphasized through both in-class discussions and reflective writing. The course is designed to enhance a student's ability to analyze, interpret, and respond to literature. Course content focuses on the historical development of American literature through the study of historical context, lifestyles, culture, and literary genres. Students do expository writing, investigatory writing, and creative writing. Students will research, write, and present formal speeches.

AP ENGLISH 4

Course Number: ENGAP1040

Open To: Grade 12
Prerequisites: Placement based on grade 11 instructor recommendation, writing sample, and reading level. Summer reading required.
Weight: Advanced Placement
Duration/Credit: Year /1.5 Credits (only 1 during the day)
PGR: #5 Oral Communication, #7 Response to Literature
Course Designation: Humanities

AP English 4 provides a study of selections of poetry, dramas, short stories, novels, and literary criticisms of Greek tragedy and works of British origin as well as frequent practice in composition. Reading and discussion leads to analytical writing. The study of composition includes a review of sentence and paragraph structure leading to writing that demonstrates depth of insight and interesting style. Literature is studied historically and comparatively regarding theme, structure, character, narration, style, literary device, and symbol where the student is given ample opportunity to demonstrate an individual critical approach and thematic understanding both in class discussion and composition. All students will take the AP Examination in Literature and Composition.

HONORS ENGLISH 4

Course Number: ENGHN1041
Open To: Grade 12
Prerequisites: Placement based on grade 11 instructor recommendation, writing sample, and reading level. Summer reading required.
Weight: Honors
Duration/Credit: Year /1 Credit
PGR: #5 Oral Communication, #7 Response to Literature
Course Designation: Humanities

This course is an accelerated program that introduces the student to selections of British literature ranging from the Anglo-Saxon period to the twentieth century. Emphasis is placed on the historical development of poetry, drama, the essay, the short story, and the novel. Students are given ample opportunity to refine analytical and writing skills and demonstrate their critical approach and thematic understanding of literature through class discussions, oral presentations, essays, a research paper, and creative writing. The class is reading and writing intensive, typically demanding the study of a major literary piece every three to four weeks. Students submit revised drafts throughout the writing process of each major analytical essay and write a major literary research paper.

CP ENGLISH 4

Course Number: ENGCP1042
Open To: Grade 12
Prerequisites: Recommendation by Grade 11 instructor
Weight: College Prep
Duration/Credit: Year/ 1 Credit
PGR: #5 Oral Communication, #7 Response to Literature
Course Designation: Humanities

This course introduces the student to selections of British literature ranging from the Anglo-Saxon period to the twentieth century. Emphasis is placed on the historical development of poetry, drama, the essay, the short story,

and the novel. Students are given ample opportunity to demonstrate their critical approach and thematic understanding of literature through class discussions, oral presentations, essays, a research paper, and creative writing.

GENERAL ENGLISH 4

Course Number: ENGGN1044
Open To: Grade 12
Prerequisites: Recommendation of Grade 11 instructor
Weight: General
Duration/Credit: Year /1 Credit
PGR: #1 Education/Career Portfolio – 1.7 Resume, Reference Sheet
#5 Oral Communication, #7 Response to Literature
Course Designation: Humanities

This course introduces students to selections of world literature including classical Greek mythology and British literature. Emphasis is placed on language and composition skills. Other major areas of concentration include vocabulary development, public speaking, and library research. Students are exposed to school-to-career materials, timely issues paralleled with literary topics, and a variety of genres through multimedia experiences.

ENGLISH ELECTIVES

These classes are meant to enhance student learning experiences beyond standard English courses.

ACADEMIC LITERACY

Course Number: ENGGN1006
Open to: Grade 9 and 10
Prerequisites: Placement based on teacher recommendation and reading level.
Weight: General
Duration/Credit: Semester/.5 credit
Course designation: Humanities

This course is designed for students who require additional time and support to develop academic literacy skills. The course follows the workshop model with students spending considerable time engaged in independent reading as well as in book group discussions. The focus is on developing stronger reading and analysis skills while also enhancing writing through practice.

CREATIVE WRITING

Course Number: ENGCP1062
Open to: Grades 9-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit
Course Designation: Humanities

This course takes a student-centered approach to creative writing, offering a range of strategies to help students develop as writers and encouraging students to value their own resources of memory, observation, and voice. The

emphasis is highly practical with exercises and activities designed to ignite and sustain writing impulses. The course begins with an introduction to the creative process followed by practice in harnessing the unconscious and building a daily discipline. This is followed by demonstration and practice of the three most popular forms: fiction, poetry, and life writing.

JOURNALISM 1

Course Number: ENGCP1080
Open To: Grades 10-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Year/ 1 Credit
PGR: #3 Persuasive Argument
Course Designation: Humanities

Students learn different techniques of communication in the mass media by developing skills in gathering information, interviewing, building stories, editing, preparing headlines, writing leads and captions, resulting in the production of *The Redline*, the school newspaper. Each year, students produce several issues of the school's newspaper; the publication is submitted for review in regional competitions.

JOURNALISM 2

Course Number: ENGHN1082
Open To: Grades 11-12
Prerequisites: Journalism 1
Weight: Honors
Duration/Credit: Year/1 Credit
Course Designation: Humanities

This course is an extension of Journalism 1 (ENGCP1080). Students supervise the managerial aspects of journalism, including layout, editing, and publishing. At this point, students will know how to produce a newspaper on their own. Students will produce a literary journal, as well as the school newspaper, *The Redline*.

THEATRE ARTS

Course Number: ENGCP1086 *May be repeated for credit.*
Open To: Grades 9-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/ .5 Credit each
PGR: #5 Oral Communication
Course Designation: Humanities (may be used towards Visual and Performing Arts requirement)

This course is for the student interested in developing skills in dramatic arts. Students must take an active part in dramatic presentations in the classroom and on the stage. They will rehearse skits, scenarios and plays. Other areas are technical in nature and include lighting, set design, costume design, makeup, stage movement, and history of the theater.

FAMILY & CONSUMER SCIENCE DEPARTMENT

[Click here to return to Table of Contents](#)

| Course # | Title | Level | Credit | Duration | Grade |
|-----------------|---|--------------|---------------|-----------------|--------------|
| FCSCP1510 | Child Development 1 | College Prep | .5 | Semester | 9-12 |
| FCSCP1512 | Child Development 2 | College Prep | .5 | Semester | 10-12 |
| FCSCP1516 | Early Childhood Education | College Prep | 1 | Year | 11-12 |
| FCSCP1518 | Internship in Early Childhood Education | College Prep | 1 | Year | 11-12 |
| FCSGN1520 | Foods and Nutrition 1 | General | .5 | Semester | 10-12 |
| FCSGN1522 | Foods and Nutrition 2 | General | .5 | Semester | 10-12 |

CHILD DEVELOPMENT 1

Course Number: FCSCP1510
 Open To: Grades 9-12
 Prerequisite: None
 Weight: College Prep
 Duration/Credit: Semester/.5 Credit
 PGR: #5 Oral Communication
 Course Designation: STEM/Humanities

This course is for students who foresee themselves in careers/jobs working with children, as future parents and/or caregivers of children. This course includes units on how the events in early childhood, birth to 2.9 years of age, impact our physical, social/emotional, and intellectual development. Students participate in a variety of learning experiences, class discussions, projects, homework, tests, guest speakers, and infant and toddler observations.

CHILD DEVELOPMENT 2

Course Number: FCSCP1512
 Open to: Grades 10-12
 Prerequisite: Child Development 1
 Weight: College Prep
 Duration: Semester/.5 credit
 PGR: #5 Oral Communication
 Course Designation: Humanities

This course is for students who foresee themselves in careers/jobs working with children, as future parents and/or caregivers of children. This course will focus on how the events in childhood, ages 3-6, impact our physical, social/emotional, and intellectual development. Students participate in a variety of learning experiences, class discussions, projects, homework, tests, guest speakers, and infant and toddler observations. Students will be observing the EastConn Head Start preschool students.

EARLY CHILDHOOD EDUCATION

Course Number: FCSCP1516
 Open To: Grades 11-12
 Prerequisite: Child Development 1 and 2
 Weight: College Prep
 Duration/Credit: Year/1 Credit

PGR: #5 Oral Communication
Course Designation: Humanities

The focus of the course is the development of children ages 2-6: physical, social, emotional, cognitive, and moral as they interrelate to one another and considerations of each when planning for early childhood education, pre-K through 2nd grade. Learning experiences also include class discussions, projects, field trips, homework, tests, and guest speakers. Students are paired up with EastConn Head Start preschool students in the “Book Buddies” Mentor Program and conduct observations on the Head Start students.

FOODS AND NUTRITION 1

Course Number: FCSGN1520
Open To: Grades 10-12
Prerequisites: None
Weight: General
Duration/Credit: Semester/.5 Credit
PGR: #6 Reading for Information
Course Designation: STEM/Humanities

Students learn the basics of nutrition, how to understand and follow recipes, and to plan and prepare nutritious and appetizing foods. Students discuss trends in the fast-food industry and mass media that influence teenage decision making. Also, students analyze their current eating habits through myplate.gov.

FOODS AND NUTRITION 2

Course Number: FCSGN1522
Open To: Grades 10-12
Prerequisites: Foods 1
Weight: General
Duration/Credit: Semester/.5 Credit
PGR: #6 Reading for Information
Course Designation: Humanities

This course is an advanced study in food and nutrition that takes a multicultural approach to learning. Students will prepare presentations and meals from different countries. Students are encouraged to broaden their “Culinary Horizons” through food tasting labs, guest speakers and field trips. The course includes class discussion, homework, demonstrations, tasting labs and cooking labs.

INTERNSHIP IN EARLY CHILDHOOD EDUCATION

Course Number: FCSCP1518
Open To: Grades 11-12
Prerequisite: Child Development 1 & 2 with a “B” average and teacher approval
Weight: College Prep
Duration/Credit: Year/1 credit
PGR: #5 Oral Communication
Course Designation: Humanities

This course is only available to those students who completed Child Development 1 & 2 with at least a “B” average. Students should have intentions of pursuing a career related to Early Child Education or Social Work.

Students must complete an application essay on their reason for completing an Independent Study. Students will intern at Killingly Memorial/Central School classrooms. Education students will plan and implement weekly lesson plans, gain classroom management skills and hands-on experiences with young children.

MATHEMATICS DEPARTMENT

[Click here to return to Table of Contents](#)

| Course # | Title | Level | Credit | Duration | Grade |
|-----------------|--------------------------------|--------------|---------------|-----------------|--------------|
| MTHGN1103 | Essentials of Algebra 1 – F # | General | 1 | Year | 9 |
| MTHGN1105 | Essentials of Algebra 1 # | General | 1 | Year | 10-12 |
| MTHGN1114 | Essentials of Geometry | General | 1 | Year | 10-12 |
| MTHGN1108 | Essentials of Algebra 2 | General | 1 | Year | 10-12 |
| MTHGN1109 | Essentials of Algebra 3 | General | 1 | Year | 11-12 |
| MTHGN1110 | Essentials of Daily Living 1 | General | .5 | Semester | 11-12 |
| MTHGN1112 | Essentials for Daily Living 2 | General | .5 | Semester | 11-12 |
| MTHCP1120 | College Prep Algebra 1 – F # | College Prep | 1 | Year | 9 |
| MTHCP1122 | College Prep Algebra 1 # | College Prep | 1 | Year | 10-12 |
| MTHCP1130 | College Prep Algebra 2 # | College Prep | 1 | Year | 10-12 |
| MTHCP1131 | College Prep Algebra 2 – F # | College Prep | 1 | Year | 9 |
| MTHCP1133 | College Prep Algebra 3 | College Prep | 1 | Year | 10-12 |
| MTHCP1128 | Accelerated Algebra 2 & 3 | College Prep | 1 | Year | 10-12 |
| MTHCP1126 | College Prep Geometry # | College Prep | 1 | Year | 10-12 |
| MTHCP1134 | Trigonometry # | College Prep | 1 | Year | 11-12 |
| MTHHN1149/1150* | Honors Algebra 2 # | Honors | 1.5 | Year | 9 |
| MTHHN1144 | Honors Calculus # | Honors | 1 | Year | 11-12 |
| MTHHN1152/1151* | Honors Geometry/Pre-Calculus # | Honors | 1.5 | Year | 10-12 |
| MTHAP1151/1155* | AP Calculus AB # | AP | 1.5 | Year | 11-12 |
| MTHAP1153/1157* | AP Calculus BC # | AP | 1.5 | Year | 11-12 |
| MTHCP1160 | Math Leadership | None | 1 | Year | 12 |

#NCAA approved course

The Mathematics Department is committed to creating an environment where students can reason and communicate mathematically. Thinking critically and logically through mathematics is the basis of every course offered. Calculator use in all courses is encouraged and recommended, when appropriate. Students should plan on consulting with their math teacher prior to making any course selections. The Mathematics Department recommends four years of mathematics.

ESSENTIALS OF ALGEBRA 1

Course Number: MTHGN1103 - F Grade 9, MTHGN1105 – Grades 10 - 12
 Open To: Grade 9-12 (Closed to students who have passed CP Algebra 1)
 Prerequisite: None
 Weight: General
 Duration/Credit: Year/1 Credit
 Course Designation: STEM

This course is designed for learners requiring additional support in mathematics. It is aligned with the Connecticut Core standards for Mathematics, both the Content Standards and the Standards for Mathematical Practice. It is based on big ideas, conceptual understandings, real world applications, hands-on experiences gathering data, and appropriate uses of technology. Topics include patterns,

equations, inequalities, functions, and linear functions.

ESSENTIALS OF GEOMETRY

Course Number: MTHGN1114
Open To: Grades 10-12 (Closed to students who have passed CP Geometry)
Prerequisites: Essentials of Algebra 2 or CP Algebra 2
Weight: General
Duration/Credit: Year/1 Credit
Course Designation: STEM

This course is designed for learners requiring additional support in mathematics. It is aligned with the Connecticut Core standards for Mathematics, both the Content Standards and the Standards for Mathematical Practice. It is based on big ideas, conceptual understandings, real world applications, hands-on experiences gathering data, and appropriate uses of technology. Topics include transformations, congruence, proofs, polygons, similarity, circles, conics, and three-dimensional geometry.

ESSENTIALS OF ALGEBRA 2

Course Number: MTHGN1108
Open To: Grades 10-12 (Closed to students who have passed CP Algebra 2)
Prerequisites: Essentials of Algebra 1 or CP Algebra 1
Weight: General
Duration/Credit: Year/1 Credit
Course Designation: STEM

This course is designed for learners requiring additional support in mathematics. It is aligned with the Connecticut Core standards for Mathematics, both the Content Standards and the Standards for Mathematical Practice. It is based on big ideas, conceptual understandings, real world applications, hands-on experiences gathering data, and appropriate uses of technology. Topics include systems of equations and inequalities, functions, inverse functions, quadratic functions, and polynomial functions.

ESSENTIALS OF ALGEBRA 3

Course Number: MTHGN1109
Open To: Grades 11-12 (Closed to students who have passed CP Algebra 3)
Prerequisites: Essentials of Algebra 2 or CP Algebra 2
Weight: General
Duration/Credit: Year/1 Credit
Course Designation: STEM

This course is designed for learners requiring additional support in mathematics. It is aligned with the Connecticut Core standards for Mathematics, both the Content Standards and the Standards for Mathematical Practice. It is based on big ideas, conceptual understandings, real world applications, hands-on experiences gathering data, and appropriate uses of technology. Topics include rational functions, probability, and statistical analysis.

ESSENTIALS OF DAILY LIVING 1 & 2

Course Number: MTHGN1110 Fall / MTHGN1112 Spring (Must register for both sections)
Open To: Grade 12
Prerequisites: Three previous credits in math or concurrent with a 3rd math course

Weight: General
Duration/Credit: Semester per section/.5 Credit
Course Designation: STEM

This course should be the last course of a student's math experience. It is designed as an investigation of mathematics usage in everyday life. Topics such as consumer economics, banking and checkbook accounting, income tax and deduction calculation, family budgeting and housing expenses are studied. Mathematical computation and problem-solving skills are improved through the use of real-world math situations found in everyday life.

COLLEGE PREP ALGEBRA 1

Course Number: MTHCP1120 - F Grade 9, MTHCP1122 – Grades 10 - 12
Open To: Grades 9-12
Prerequisite: None
Weight: College Prep
Duration/Credit: Year/1 Credit
Course Designation: STEM

This course is aligned with the Connecticut Core standards for Mathematics, both the Content Standards and the Standards for Mathematical Practice. It is based on big ideas, conceptual understandings, real world applications, hands-on experiences gathering data, and appropriate uses of technology. Topics include patterns, equations, inequalities, functions, linear functions, systems of equations, and systems of inequalities.

COLLEGE PREP ALGEBRA 2

Course Number: MTHCP1131 – F Grade 9, MTHCP1130 Grades 10-12
Open To: Grades 9-12
Prerequisites: College Prep Algebra 1
Weight: College Prep
Duration/Credit: Year/1 Credit
Course Designation: STEM

This course is aligned with the Connecticut Core standards for Mathematics, both the Content Standards and the Standards for Mathematical Practice. It is based on big ideas, conceptual understandings, real world applications, hands-on experiences gathering data, and appropriate uses of technology. Topics include functions, inverse functions, quadratic functions, polynomial functions, exponential functions, and logarithmic functions.

COLLEGE PREP ALGEBRA 3

Course Number: MTHCP1133
Open To: Grades 10-12
Prerequisites: College Prep Algebra 2
Weight: College Prep
Duration/Credit: Year/1 Credit
Course Designation: STEM

This course is aligned with the Connecticut Core standards for Mathematics, both the Content Standards and the Standards for Mathematical Practice. It is based on big ideas, conceptual understandings, real world applications,

hands-on experiences gathering data, and appropriate uses of technology. Topics include rational functions, probability, statistical analysis, and matrices.

ACCELERATED ALGEBRA 2 & 3

Course Number: MTHCP1128
Open To: Grades 10-12
Prerequisites: College Prep Algebra 1 and teacher recommendation
Weight: College Prep
Duration/Credit: Year/1 Credit
Course Designation: STEM

This is an accelerated course designed to allow capable and motivated students to cover CP Algebra 2 and CP Algebra 3 in a single year. Therefore, **enrollment in this course requires a special recommendation from the student's current teacher.** This course focuses on the content of both CP Algebra 2 and CP Algebra 3, including functions, inverse functions, quadratic functions, polynomial functions, exponential functions, logarithmic functions, and rational functions.

COLLEGE PREP GEOMETRY

Course Number: MTHCP1126
Open To: Grades 10-12
Prerequisites: College Prep Algebra 2
Weight: College Prep
Duration/Credit: Year/1 Credit
Course Designation: STEM

This course is aligned with the Connecticut Core standards for Mathematics, both the Content Standards and the Standards for Mathematical Practice. It is based on big ideas, conceptual understandings, real world applications, hands-on experiences gathering data, and appropriate uses of technology. Topics include transformations, congruence, proofs, polygons, similarity, circles, conics, and three-dimensional geometry.

TRIGONOMETRY

Course Number: MTHCP1134
Open To: Grades 10-12
Prerequisites: College Prep Algebra 3 and College Prep Geometry
Weight: College Prep
Duration/Credit: Year/1 Credit
Course Designation: STEM

This course is a prerequisite for Calculus. It uses essential algebra and geometry skills within the curriculum. Topics include circular functions and their applications, inverses of circular functions, solving trigonometric equations, and proof of trigonometric identities.

HONORS ALGEBRA 2

Course Number: MTHHN1149/1150
Open To: Grades 9/Successful completion of a placement exam
Prerequisites: CP Algebra 1
Weight: Honors

Duration/Credit: Year/1.5 Credits (Every other day in the fall, every day in the spring)
Course Designation: STEM

This is an accelerated and competitive course open to students who have the desire to be challenged and who have exhibited superior math skills in College Prep Algebra 1. This course focuses on the content of both CP Algebra 2 and CP Algebra 3 in detail. Appropriate problem solving utilizing the TI-84+ Graphing Calculator will be integrated throughout the entire course.

HONORS CALCULUS

Course Number: MTHHN1144
Open To: Grades 11-12
Prerequisites: Trigonometry or Honors Pre-Calculus
Weight: Honors
Duration/Credit: Year/1 Credit
Course Designation: STEM

This course is designed for students who cannot handle the pace of AP Calculus but want to prepare for future Calculus courses at the college level. Similar material will be taught but at a more manageable pace. The focus of the course will be differentiation and integration. See topics covered in AP Calculus AB.

HONORS GEOMETRY / PRE-CALCULUS

Course Number: MTHHN1152 & MTHHN1151 (must register for both)
Open To: Grades 10-12
Prerequisites: Honors Algebra 2
Weight: Honors
Duration/Credit: Year/.75 credits each (every other day in the fall, every day in the spring)
Course Designation: STEM

This is an accelerated and competitive course open to students who have the desire to be challenged and who have exhibited superior math skills in College Prep Algebra 2 and 3 or Honors Algebra 2. Throughout both courses, appropriate application problems will be included along with the utilization of the TI-84+ calculator for problem solving. The geometry portion of the course will emphasize the coordinate and transformational approach, the development of short sequences of theorems and expressions, and oral and written deductive arguments. Pre-Calculus will focus on evaluating, solving, and graphing various functions (polynomial, rational, exponential, and logarithmic), the unit circle, the six trigonometric functions, trigonometric identities and equations, applications of trigonometric identities, and graphing of trigonometric functions.

ADVANCED PLACEMENT CALCULUS – AB

Course Number: MTHAP1151 & MTHAP1155 (must register for both)
Open To: Grades 11-12
Prerequisites: Trigonometry or Honors Pre-Calculus recommended
Weight: AP
Duration/Credit: Year/1.5 Credits (every day in the fall, every other day in the spring)
Course Designation: STEM

This is an Advanced Placement (AP) program in Calculus. Students are expected to take the AP Calculus AB test for college placement at the end of the course. Topics covered include limits, continuous functions, derivatives,

trigonometric functions, tangent lines, chain rule, inverse functions, mean-value theorem, concavity, limits involving infinity, curve sketching, differential equations, area, and arc length.

Additional topics are logarithms, volume (slicing, shells), exponential functions, inverse trigonometric functions, hyperbolic functions, L'Hopital's rule, trigonometric integrals, and integration by parts.

ADVANCED PLACEMENT CALCULUS – BC

Course Number: MTHAP1153 & MTHAP1157 (must register for both)
Open To: Grade 12
Prerequisites: AP Calculus AB
Weight: AP
Duration/Credit: Year/1.5 Credits (every day in the fall, every other day in the spring)
Course Designation: STEM

This course is the second level of the Advanced Placement program in Calculus. All students are expected to take the AP Calculus-BC exam at the end of the course. Topics covered will include slope fields, advanced integration methods, parametric equations, polar coordinates, and series.

MATHEMATICS LEADERSHIP

Course Number: MTHCP1160
Open To: Grade 12
Prerequisites: 3 credits in CP Math classes or higher and recommendation from Math teacher
Weight: None
Duration/Credit: Year/1 Credit

This opportunity is for students who are seriously considering a future in teaching high school mathematics. Students who qualify for this program will be teamed with a math teacher(s) for the duration of the school year and assist in the classroom, working with individual students and/or groups. Student leaders will be expected to attend all classes and submit a quarterly narrative to the department coordinator on their experiences. Students will earn either a pass (P) or fail (F) grade and will not be calculated in determining class rank and GPA.

MUSIC DEPARTMENT

Click here to return to Table of Contents

| Course # | Title | Level | Credit | Duration | Grade |
|-----------------|------------------------------|--------------|---------------|-----------------|--------------|
| MUSCP1720 | CP Concert Choir | College Prep | 1 | Year | 9-12 |
| MUSHN1750 | Honors Concert Choir | Honors | 1 | Year | 9-12 |
| MUSCP1719 | Chamber Choir | College Prep | .5 | Year | 9-12 |
| MUSCP1732 | CP Symphonic Winds | College Prep | 1 | Year | 9-12 |
| MUSHN1756 | Honors Symphonic Winds | Honors | 1 | Year | 9-12 |
| MUSCP1730 | CP Percussion Ensemble | College Prep | 1 | Year | 9-12 |
| MUSHN1754 | Honors Percussion Ensemble | Honors | 1 | Year | 9-12 |
| MUSCP1724 | CP Marching Band | College Prep | .5 | Semester | 9-12 |
| MUSCP1728 | Introduction to Music Theory | College Prep | .5 | Semester | 9-12 |
| MUSEC1770 | AP/ECE Music Theory | AP/ECE | 1.5 | Year | 10-12 |
| MUSGN1710 | Beginner Guitar | General | .5 | Semester | 9-12 |
| MUSGN1712 | Intermediate/Advanced Guitar | General | .5 | Semester | 9-12 |
| MUSCP1726 | Music Technology I | College Prep | .5 | Semester | 9-12 |
| MUSCP1729 | Music Technology II | College Prep | .5 | Semester | 10-12 |

Music Department Educational Travel Statement

The Killingly High School Music Department will travel to a destination in either New England/Mid-Atlantic region or a location outside of that area during alternating school years pending Killingly Board of Education approval. It is the mission of the department to serve all students equally by providing musical opportunities, educational programming, and performance trips that support the academic, social, and civic mission of our high school. Students who enroll in CP/Honors Symphonic Winds, CP/Honors Percussion Ensemble, CP/Honors Concert Choir, Chamber Choir, CP Marching Band, and/or Jazz Band (non-credit, auditioned ensembles) will be strongly encouraged to participate in any spring semester performance trip.

With the assistance of the *KHS Music Boosters*, fundraisers will be held on a regular basis to help students earn the necessary funds to travel with the KHS Music Department. Some students have been able to earn most of the funds by participating in the fundraisers on a regular basis. Understanding today's economy, the music department will keep the cost of the excursion between \$200 (Broadway Year) and \$1500 (Disney year) per child. A trip commitment form and fee schedule are issued to each student/family in September. Fees are generally collected in October, November, December/January and late February in order to meet travel company deadlines. KHS Music Department has traditionally used Perkins Travel Co., New Britain, CT, for all its travel needs. Questions may be directed to Jeff Ethier or Jason Largent by sending correspondence to jethier@killinglyschools.org or jlargent@killinglyschools.org

CP CONCERT CHOIR/HONORS CONCERT CHOIR

Course Number: MUSCP1720/MUSHN1750

Open To: Grades 9-12

Prerequisites: None

Weight: CP/Honors

Duration/Credit: Year/1 Credit
Course Designation: Humanities

The Concert Choir is a performing ensemble that welcomes anyone that enjoys singing. The group will study a variety of literature that ranges from classical music to jazz, Broadway, and modern music. Chorus members will develop vocal technique through instruction and performance and will also learn skills needed to read and interpret music. The concert choir performs at the Concert to Honor our Veterans, Our Winter Celebration, our Cabaret Event, Music in our School Music Concert, our Spring Collage Concert and participates in competitive trips.

All sections will be available for honors credit if the student completes 4 out of the following 8 activities that are additional to the College Prep requirements:

1. Take private lessons with an approved instructor (worth 2 of 4 requirements) including participation in a June Recital.
2. Audition for CMEA Regional and/or NEMFA music festivals (1st semester)
3. Admission/participation in CMEA Regional Chorus (1st semester)
4. Admission/participation in Chamber Choir (full year)
5. Audition/Admission/participation in All-State Chorus and/or NEMFA Chorus (2nd semester)
6. Participate/perform in community, church or professional music organization approved by choral director (1st, 2nd, or both semesters)
7. Performing in a small ensemble or solo in the KHS Cabaret Concert. (2nd Semester)
8. Work two weeks as an assistant conductor (See choral director for planning meeting) (full year)
9. Take a ½ semester music elective and earn a grade of 90 or higher. (Full year)

CHAMBER CHOIR

Course Number: MUSCP1719
Open To: Grades 9-12
Prerequisites: Audition required
Weight: CP/Honors
Duration/Credit: Year/.5 Credit – Meets 1 day per week after school for the year
Course Designation: Humanities

The Chamber Choir is our most advanced vocal group. This ensemble will study complex and challenging choral music. The Chamber Choir will perform with the Concert Choir and Symphonic Band in all their concerts and will also be featured in several of their own performances within the school and broader community. Students will be required to rehearse after-school one day a week. All members of Chamber Choir must also be members of Concert Choir (*schedule permitting - see instructor if conflicts). Chamber Choir is an audition-based ensemble and auditions will take place during the previous spring at both KHS and KIS.

CP SYMPHONIC WINDS/HONORS SYMPHONIC WINDS

Course Number: MUSCP1732, MUSHN1756
Open To: Grades 9-12
Prerequisites: None
Weight: CP/Honors

Duration/Credit: Year/1 Credit
Course Designation: Humanities

Symphonic Winds will perform, on band instruments, a varied repertoire of music from the band traditions of the 18th, 19th, 20th and 21st centuries. Concerts will be given throughout the year. Grading is based on performance tests, written evaluations, and preparedness for classes and concerts. Periodic evening rehearsals will be held to combine with percussion personnel. Students are generally responsible for the ownership of their own instruments; the school provides a limited number of large instruments for students' use. Students must own/purchase their own reeds, cork grease, slide grease, valve oil, etc. and can be obtained from Gerry's Music and/or the music department store at cost. All sections will be available for honors credit if the student completes 4 out of the following 9 activities that are additional to the College Prep requirements:

1. Take private lessons with an approved instructor (counts as 2 requirements) (1st and 2nd semester) including participation in a June Recital.
2. Play in a small ensemble (1st and/or 2nd semester)
3. Section leader (1st and/or 2nd semester)
4. Jazz band (1st and 2nd semester)
5. Audition for Regional, All-State and New England Festivals (1st semester)
6. Admission/participation in Eastern Region Band/Orchestra (1st semester)
7. Admission/participation in All-State Band/Orchestra and/or New England Band/Orchestra (2nd semester)
8. Participate/perform in community, church, or professional musical organization (1st and 2nd semester)
9. Teach group sectionals/lessons to Killingly Intermediate School students weekly at KIS (1st and 2nd semester)

CP PERCUSSION ENSEMBLE/HONORS PERCUSSION ENSEMBLE

Course Number: MUSCP1730, MUSHN1754
Open To: Grades 9-12
Prerequisites: None
Weight: CP/Honors
Duration/Credit: Year/1 Credit
Course Designation: Humanities

Percussion Ensemble will perform, on percussion instruments, a varied repertoire of music from the band and percussion traditions of 18th, 19th, 20th and 21st centuries. Concerts will be given throughout the year, and all students will perform at a percussion ensemble festival held on the first Saturday of March each year. Students will experience percussion performance through percussion ensembles, symphonic band, and rhythmic studies. Grading is based on performance tests, written evaluations, and preparedness for classes and concerts. Periodic evening rehearsals will be held to combine with symphonic winds personnel. Students are responsible for the purchase of concert snare sticks. Students may also opt to invest in a percussion supplies kit (see below) that can be obtained through Gerry's Music; the school provides an ample number of large percussion instruments for students' use.

- Vic Firth SD1 or SD2 concert snare sticks – REQUIRED
- Drum Pad with stand - SUGGESTED
- Vic Firth stick bag - SUGGESTED

- Vic Firth general timpani, xylophone, and yarn marimba mallets - OPTIONAL

All sections will be available for honors credit if the student completes 4 out of the following 9 activities that are additional to the College Prep requirements:

1. Take private lessons with an approved instructor (counts as 2 requirements) (1st and 2nd semester) including participation in a June Recital.
2. Playing in a small ensemble (1st and/or 2nd semester)
3. Section leader (1st and/or 2nd semester)
4. Jazz band (1st and 2nd semester)
5. Audition for Regional, All-State, and New England Festivals (1st semester)
6. Admission/participation in Eastern Region Band/Orchestra (1st semester)
7. Admission/participation in All-State Band/Orchestra and/or New England Band/Orchestra (2nd semester)
8. Participate/perform in community, church, or professional musical organization (1st and 2nd semester)
9. Teach group sectionals/lessons to Killingly Intermediate School students weekly at KIS (1st and 2nd semester)

MARCHING BAND

Course Number: MUSCP1724
 Open To: Grades 9-12
 Prerequisites: None
 Weight: CP
 Duration/Credit: Semester/.5 Credit
 Course Designation: Humanities

August – November, After School/Nights/Extended Day, 0.5 Credits

- *There will be just over 62.5 hours of instruction in this course. That is equal to one 0.5 Credit course that meets during the school day.*
- *Credit offered to Woodwinds, Brass, Percussion, and Color Guard (arts credit)*

This large instrumental ensemble with auxiliary groups prepares field shows for football games, parades, and competitions. To be accepted into the course, students **must attend**:

- Band camp in late August.
- Group sectionals (woodwinds, brass, percussion, color guard) once per week. Schedule for woodwinds, brass, color guard, and percussion will be determined.
- Full band rehearsal on all Thursdays in September, October, and November (not all Thursdays in November). Rehearsals are held from 6:00-8:30 p.m.
- All home football games in September, October, and November. The band will travel to play-offs if the team advances beyond ECC competition. All home games are preceded by a short, full band rehearsal generally beginning at 4:15 and ending at 5:15pm.
- All band parades and/or special performances on three or four weekends in September, October, and November. All performances are preceded by full band rehearsal. Students' time commitment on special performance days varies.

Since CP Marching Band is being offered for credit (0.5), only rehearsal and performance times have been calculated into the number of hours of participation. Travel and mealtimes are not included in instructional/class

time. In addition to attendance, playing tests, memorization tests, show memorization, and maintenance of course materials (equipment, flip folders, drill folders/notebooks, dot books, etc.) will be graded.

Students who do not have band gloves or shoes are responsible for the purchase of these goods. Shoes and gloves are no more than \$50 for students who need them. Generally, upperclassmen have shoes and gloves from previous years. Other fees may be incurred depending on the schedule of events for the season (incidental supplies, show shirt, etc.). Color Guard members generally have additional fees to offset the price of costumes; the cost varies annually but is payable in installments if required by individual families. The KHS Music Department budget provides most services and equipment for the marching band.

INTRODUCTION TO MUSIC THEORY UCONN ECE (MUSI 1011)

Course Number: MUSCP1728
Open To: Grades 9-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit – *This class may earn college credits through UCONN*.*
Course Designation: Humanities

This course studies the basic elements of music composition and ear-training. The class will explore harmonic structure, keys and scales, musical form and music history. Music Theory CP is ideal for students who want to broaden their music exposure, compose their own music, or wish to pursue a music major or minor after high school. This class may also serve as a prerequisite for AP Music Theory.

****To earn the 3 available UCONN credits, students must complete the UCONN Early College Experience (ECE) application and enrollment steps, and submit any applicable course fees.****

AP/ECE MUSIC THEORY UCONN ECE (MUSI 1011 and/or MUSI 1012)

Course Number: MUSEC1770
Open To: Grades 11-12
Prerequisites: Introduction to Music Theory or a teacher's recommendation
Weight: AP
Duration/Credit: Year/1.5 Credits– *This class may earn college credits through UCONN*.*
Course Designation: Humanities

Advanced Placement Music Theory is a rigorous course designed to expand and enhance the basic skill for the serious high school musician. Music composition, melodic practices, theory of harmony and other musical concepts are studied, encompassing the common practice period up through the Baroque/Classical Period (1600-1750). Music from other stylistic periods is also studied, as well as a brief unit on jazz theory. The study, writing, singing, and analysis of the 4-part chorale from this common practice period in the common thread to the course study. Students are prepared to take the AP Music Theory Exam when they have completed the course.

****To earn the 3 available UCONN credits, students must complete the UCONN Early College Experience (ECE) application and enrollment steps, and submit any applicable course fees.****

BEGINNER GUITAR

Course Number: MUSGN1710

Open To: Grades 9-12
Prerequisites: Ownership of a non-electric guitar and guitar case
Weight: General
Duration/Credit: Semester/.5 Credit
Course Designation: Humanities

This course is designed for students interested in learning the basic skills needed for playing the guitar. As an introductory course, no previous experience is necessary, although some knowledge of reading music is helpful. The three main areas of study in this class are musical literacy, scales, and finger exercises, and strumming and playing chords. Most students who take Beginner Guitar also sign up for the S2 class, Intermediate Guitar. Because the school has a limited amount of “loaner instruments”, it is preferred that students have their own full-size acoustic guitar.

INTERMEDIATE/ADVANCED GUITAR

Course Number: MUSGN1712
Open To: Grades 9-12
Prerequisites: Ownership of a non-electric guitar and guitar case, Introduction to Guitar with at least an 80 Average.
Weight: General
Duration/Credit: Semester/.5 Credit
Course Designation: Humanities

Students with experience both reading music and playing chords will continue to develop these skills by performing in a guitar ensemble, accompanying vocalists, and composing their own music. Students will experience a variety of styles of music and will develop a stronger sense of musical literacy through discussion and writing about music. Students who have successfully completed intermediate guitar may retake the class as Advanced Guitar.

MUSIC TECHNOLOGY I

Course Number: MUSCP1726
Open To: Grades 9-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit
Course Designation: STEM/Humanities

This course is for students who love music and want to explore the world of music and technology. Using specialized music sequencing and recording software (i.e., Garage Band, Band in a Box, Sibelius), students will analyze, mix, re-mix and create their own loop-based recordings and sequences while learning the fundamentals of music theory along the way. Students will also gain experience in reading and creating notated music as they learn basic music keyboard skills in a hands-on project-based class. Students with limited musical background will be equally welcomed along with those with more extensive musical experience.

MUSIC TECHNOLOGY II

Course Number: MUSCP1729
Open To: Grades 10-12
Prerequisites: Music Technology I or Teacher Recommendation

Weight: College Prep
Duration/Credit: Semester/.5 Credit
Course Designation: STEM/Humanities

This course will explore more advanced topics in Music Technology and will concentrate on “Real World” applications. Students will be presented with several creative assignments utilizing software programs like Garageband, Sibelius, Logic Pro, and others, while increasing student understanding of traditional notation and composition. Projects will include but not be limited to: Arranging, Radio Jingles, Commercials, and Film Scoring. Students may have the opportunity to collaborate on projects with Mr. Durand’s Film Production class. All students are encouraged to use the knowledge and techniques gained in this course to seek musical experiences beyond the classroom (auditorium sound technician, radio/TV technician, composing music for film/theater/multimedia presentations). The course works well as an elective for a Career Pathway in Music.

PHYSICAL EDUCATION AND HEALTH DEPARTMENT

Click here to return to Table of Contents

| Course # | Title | Level | Credit | Duration | Grade |
|-----------------|------------------------------------|--------------|---------------|-----------------|--------------|
| PEHGN1910 | PE 1 Male | General | .5 | Semester | 9-12 |
| PEHGN1912 | PE 1 Female | General | .5 | Semester | 9-12 |
| PEHGN1920 | PE 2 Male | General | .5 | Semester | 9-12 |
| PEHGN1922 | PE 2 Female | General | .5 | Semester | 9-12 |
| PEHGN1950 | Adaptive Physical Education | General | .5 | Semester | 9-12 |
| PEHGN1954 | Personal Fitness | General | .5 | Semester | 9-12 |
| PEHGN1960 | Health 1 | General | .5 | Semester | 9-12 |
| PEHGN1962 | Health 2 | General | .5 | Semester | 9-12 |
| PEHGN1952 | Athletic Strength and Conditioning | General | .5 | Semester | 10-12 |
| PEHCP1970 | Physical Education Leadership | College Prep | .5 | Semester | 11-12 |

PHYSICAL EDUCATION 1 (PE 1)

Course Number: PEHGN1910 Male, PEHGN1912 Female
 Open To: Grades 9-12
 Prerequisites: None
 Weight: General
 Duration/Credit: Semester/.5 Credit
 Course Designation: PE and Wellness

This course emphasizes cooperative game activities and increasing overall fitness. This course covers the following activities: Cardiovascular Endurance, Strength and Flexibility, Fitness Testing, Soccer, Field Hockey, Tennis, Ultimate Frisbee/Football, Softball, Track and Field, Power Walking, Basketball, Self-Defense, Volleyball, Dancing.

PHYSICAL EDUCATION 2 (PE 2)

Course Number: PEHGN1920 Male, PEHGN1922 Female
 Open To: Grades 9-12
 Prerequisites: None
 Weight: General
 Duration/Credit: Semester/.5 Credit
 Course Designation: PE and Wellness

This course emphasizes team sports, introduction to lifetime activities and increasing overall fitness. This course covers the following activities: Cardiovascular Endurance, Strength and Flexibility, Connecticut State Fitness Test, Floor Hockey, Step Aerobics, Cardio-Kickboxing, Yoga, Relaxation, Team Handball, Weight Training, Circuit Training, Badminton, Lacrosse, Pickleball, Golf, Archery, Orienteering, Flag Football, and Volleyball.

ADAPTIVE PHYSICAL EDUCATION

Course Number: PEHGN1950
 Open To: Grades 9-12
 Prerequisites: Placement by PPT and/or Administration

Weight: General
Duration/Credit: Semester/.5 Credit
Course Designation: PE and Wellness

This course is designed to provide appropriate levels of physical activity and instruction for students identified as needing special attention or modified programs.

PERSONAL FITNESS

Course Number: PEHGN1954
Open To: Grades 9-12
Prerequisites: Must be approved by Department Coordinator
Weight: General
Duration/Credit: Semester/.5 Credit
Course Designation: PE and Wellness

This course emphasizes engagement in physical activity and education in scientifically based information about various health, wellness and fitness components to enable the student to make wise choices in regards to their lifetime health and wellness. Students will have both activity and classroom time throughout the semester. This course is geared towards students with an interest in weight management and proper nutrition.

HEALTH 1

Course Number: PEHGN1960
Open To: Grade 9-12
Prerequisites: None
Weight: General
Duration/Credit: Semester/.5 Credit
Course Designation: PE and Wellness

The course is designed to introduce students to a variety of health topics. This course covers the following topics: Personal Hygiene, Alcohol Abuse, Tobacco, Vaping, Drug Abuse, Healthy Body Weight, Fitness and Nutrition. Students may also fulfill their 3rd PGR requirement (Persuasive Argument) in this class.

HEALTH 2

Course Number: PEHGN1962
Open To: Grade 9-12 in the Class of 2023 and beyond
Prerequisites: Health 1
Weight: General
Duration/Credit: Semester/.5 Credit
Course Designation: PE and Wellness

This course is designed to introduce students to a variety of health topics. This course covers the following topics: Reproductive Systems, Pregnancy/Birth, STI/HIV/AIDS, Stress Management, Mental/Emotional Health, Healthy Relationships, Violence, First Aid, CPR, AED. Students may also fulfill their 3rd PGR requirement (Persuasive Argument) in this class.

ATHLETIC STRENGTH AND CONDITIONING

Course Number: PEHGN1952

Open To: Grades 10-12
Prerequisites: None
Weight: General
Duration/Credit: Semester/.5 Credit

This class is intended for students who are involved in interscholastic athletics. This course emphasizes engagement in an individually specific weight training program. Each student with the help of the teacher will design a semester-long weight training and athletic conditioning program that meets their specific needs and goals. This is a highly intensive class as far as lifting weights and running. The course will also introduce students to weight management, principles of training and various fitness assessments. The course is geared towards individuals who are looking to improve their overall muscular strength to compete at their highest level.

PHYSICAL EDUCATION LEADERSHIP

Course Number: PEHCP1970 (1)
Open To: Grade 11-12
Prerequisites: 1.0 PE credits and must be approved by Department Coordinator
Weight: College Prep
Duration/Credit: Semester/.5 Credit each

Juniors and Seniors who have met all prerequisites must request the previous school year for acceptance into the course. This course is designed to provide the student with practical leadership, organizational and instructional experience in the physical education field. Students interested in taking this class should have a strong athletic background, a desire to explore officiating, have a good knowledge of sports skills and a desire to improve their leadership skills. Students will also need to complete self-reflection assessments.

SCIENCE DEPARTMENT

[Click here to return to Table of Contents](#)

| Course # | Title | Level | Credit | Duration | Grade |
|-----------------|---------------------------------------|--------------|---------------|-----------------|--------------|
| SCIHN1310 | Honors Science # | Honors | 1 | Year | 9 |
| SCICP1312 | CP Science College Career Readiness # | CP | 1 | Year | 9 |
| SCIGN1320 | General Biology # | General | 1 | Year | 10 |
| SCICP1324 | CP Biology w/ Lab # | College Prep | 1 | Year | 10 |
| SCIHN1326 | Honors Biology w/ Lab # | Honors | 1 | Year | 10 |
| SCIAP1327 | AP Biology # | AP | 1.5 | Year | 11-12 |
| SCICP1344 | CP Chemistry w/ Lab # | College Prep | 1 | Year | 11-12 |
| SCIHN1346 | Honors Chemistry # | Honors | 1 | Year | 11-12 |
| SCIAP1347 | AP Chemistry # | AP | 1.5 | Year | 11-12 |
| SCICP1352 | CP Physics w/ Lab # | College Prep | 1 | Year | 11-12 |
| SCIHN1354 | Honors Physics # | Honors | 1 | Year | 11-12 |
| SCIGN1360 | Environmental Science # | General | 1 | Year | 12 |
| SCIAP1366 | AP Environmental Science # | AP | 1.5 | Year | 11-12 |
| SCICP1372 | Anatomy and Physiology # | College Prep | 1 | Year | 12 |
| SCIGN1330 | NGSS Physical Science | General | 1 | Year | 11 |
| SCIGN1380 | Forensics # | General | 1 | Year | 12 |
| SCICP1390/1392 | Science Leadership | None | .5/1 | Sem./Year | 12 |

#NCAA approved course

HONORS SCIENCE

Course Number: SCIHN1310
 Open To: Grade 9
 Prerequisites: Determined by standardized assessment scores and grade 8 Science grade
 Weight: Honors
 Duration/Credit: Year/1 Credit
 Course Designation: STEM

This rigorous course, which is aligned with the Next Generation Science Standards, primarily focuses on a detailed and in-depth study of Earth and Space Science disciplinary core ideas: space systems, history of Earth, Earth's systems, weather and climate and human impacts on Earth's resources. The course also integrates opportunities for students to experience science and engineering practices and encourages students to identify and develop their understanding of cross-cutting concepts that have applications across all domains of science.

CP SCIENCE COLLEGE CAREER READINESS

Course Number: SCICP1312
 Open To: Grade 9
 Prerequisites: None
 Weight: College Prep
 Duration/Credit: Year/1 Credit
 Course Designation: STEM

This course, which is aligned with the Next Generation Science Standards, primarily focuses on a study of Earth and Space Science disciplinary core ideas: space systems, history of Earth, Earth's systems, weather and climate and human impacts on Earth's resources. The course also integrates opportunities for students to experience science and engineering practices and encourages students to identify and develop their understanding of cross-cutting concepts that have applications across all domains of science.

GENERAL BIOLOGY

Course Number: SCIGN1320
Open To: Grade 10
Prerequisites: None
Weight: General
Duration/Credit: Year/1 Credit
PGR: #6 Reading for Information
Course Designation: STEM

This course, which is aligned with the Next Generation Science Standards, focuses on key concepts within the Life Science disciplinary core ideas: structure and function, matter and energy in organisms and ecosystems, interdependent relationships in ecosystems, inheritance, and variation of traits & natural selection and evolution. The course also integrates opportunities for students to demonstrate science and engineering practices and encourages students to describe and develop their understanding of cross-cutting concepts that have applications across all domains of science.

COLLEGE PREP BIOLOGY

Course Number: SCICP1324
Open To: Grade 10
Prerequisites: None
Weight: College Prep
Duration/Credit: Year/1 Credit
PGR: #6 Reading for Information
Course Designation: STEM

This course, which is aligned with the Next Generation Science Standards, offers an in-depth study of the Life Science disciplinary core ideas: structure and function, matter and energy in organisms and ecosystems, interdependent relationships in ecosystems, inheritance, and variation of traits & natural selection and evolution. The course also integrates opportunities for students to demonstrate science and engineering practices and encourages students to describe and develop their understanding of cross-cutting concepts that have applications across all domains of science.

HONORS BIOLOGY

Course Number: SCIHN1326
Open To: Grade 10
Prerequisites: None
Weight: Honors
Duration/Credit: Year/1 Credit
PGR: #6 Reading for Information
Course Designation: STEM

This accelerated course, which is aligned with the Next Generation Science Standards, offers an in-depth and rigorous study of the Life Science disciplinary core ideas: structure and function, matter and energy in organisms and ecosystems, interdependent relationships in ecosystems, inheritance, and variation of traits & natural selection and evolution. The course also integrates opportunities for students to demonstrate science and engineering practices and encourages students to describe and develop their understanding of cross-cutting concepts that have applications across all domains of science. This course is strongly recommended as a prerequisite for students who are planning to take AP Biology.

ADVANCED PLACEMENT (AP) BIOLOGY

Course Number: SCIAP1327
Open To: Grades 11-12
Prerequisites: Honors Biology is strongly suggested
Weight: AP
Duration/Credit: Year/1.5 Credit (Only 1 year long period in the schedule)
Course Designation: STEM

AP Biology is equivalent to a one-year college level Biology course. The course follows the Advanced Placement Biology course outline established by the College Board which is focused on the four “Big Ideas” of biology: 1. The process of evolution drives the diversity and unity of life. 2. Biological systems utilize free energy and molecular building blocks to grow, reproduce and maintain dynamic homeostasis. 3. Living systems store, retrieve, transmit, and respond to information essential for life processes. 4. Biological systems interact, and these systems and their interactions possess complex properties. There is an extensive lab curriculum. Students who take this course are expected to complete both semesters and take the Advanced Placement exam.

COLLEGE PREP CHEMISTRY w/LAB

Course Number: SCICP1344
Open To: Grades 11-12
Prerequisites: CP Algebra 1 and CP Algebra 2 (may be concurrent)
Weight: College Prep
Duration/Credit: Year/1 Credit
PGR: #6 Reading for Information
Course Designation: STEM

This course, which is aligned with the Next Generation Science Standards, offers an in-depth study of the Physical Science core ideas from the field of Chemistry: Molecular level structure and function of atoms, the relationship between atomic trends in the periodic table and predicting outcomes of chemical reactions, the relationship between the strength of forces between a substance’s particles the substance’s bulk properties & the conservation of mass during chemical reactions. This course also integrates opportunities for students to apply science and engineering practices and requires students to analyze and develop their understanding of cross-cutting concepts that have applications across all domains of science.

HONORS CHEMISTRY w/LAB

Course Number: SCIHN1346
Open To: Grades 11-12
Prerequisites: CP Algebra 1 & completion of or concurrent in Alg2
Weight: Honors

Duration/Credit: Year/1 Credit
PGR: #6 Reading for Information
Course Designation: STEM

This accelerated course, which is aligned with the Next Generation Science Standards, offers an in-depth and rigorous study of the Physical Science core ideas from the field of Chemistry: Molecular level structure and function of atoms, the relationship between atomic trends in the periodic table and predicting outcomes of chemical reactions, the relationship between the strength of forces between a substance's particles the substance's bulk properties & the conservation of mass during chemical reactions. This course also integrates opportunities for students to apply science and engineering practices and requires students to analyze and develop their understanding of cross-cutting concepts that have applications across all domains of science. This course is strongly recommended as a prerequisite for students who are planning to take AP Chemistry.

ADVANCED PLACEMENT (AP) CHEMISTRY

Course Number: SCIAP1347
Open To: Grades 11-12
Prerequisites: Hon./CP Chemistry, instructor's approval, successful completion of CP Algebra 1
Weight: AP
Duration/Credit: Year/1.5 Credit (Only 1 year long period in the schedule)
Course Designation: STEM

This college-level course is the equivalent of a one-year introductory college Chemistry course with a lab. The course follows the Advanced Placement course outline, which is focused on the six "Big Ideas" of Chemistry: 1. Atoms as the fundamental building materials of matter, 2. The chemical and physical properties of matter, 3. Changes in matter, 4. Rates of chemical reactions, 5. The laws of thermodynamics, 6. Dynamic competition between bond formation & breakage. Students who take this course will be expected to take the Advanced Placement exam.

COLLEGE PREP PHYSICS w/LAB

Course Number: SCICP1352
Open To: Grades 11-12
Prerequisites: Algebra 1
Weight: College Prep
Duration/Credit: Year/1 Credit
PGR: #6 Reading for Information
Course Designation: STEM

This course, which is aligned with the Next Generation Science Standards, offers an in-depth study of the Physical Science core ideas from the field of Physics: Newton's laws of motion- inertia, acceleration and momentum, the relationship between energy and the motion or the relative position of particles/objects, gravitational and electrostatic forces between objects, energy conservation and transformation within systems, the relationship between electric current and magnetic field & the properties of waves. This course also integrates opportunities for students to apply science and engineering practices and requires students to analyze and develop their understanding of cross-cutting concepts that have applications across all domains of science.

HONORS PHYSICS w/LAB

Course Number: SCIHN1354

Open To: Grades 11-12
Prerequisites: Successful completion of or concurrent enrollment in Trigonometry or Honors
Pre-Calculus
Weight: Honors
Duration/Credit: Year/1 Credit
PGR: #6 Reading for Information
Course Designation: STEM

This accelerated course, which is aligned with the Next Generation Science Standards, offers an in-depth and rigorous study of the Physical Science core ideas from the field of Physics: Newton's laws of motion- inertia, acceleration and momentum, the relationship between energy and the motion or the relative position of particles/objects, gravitational and electrostatic forces between objects, energy conservation and transformation within systems, the relationship between electric current and magnetic field & the properties of waves. This course also integrates opportunities for students to apply science and engineering practices and requires students to analyze and develop their understanding of cross-cutting concepts that have applications across all domains of science.

ENVIRONMENTAL SCIENCE

Course Number: SCIGN1360
Open To: Grade 12
Prerequisites: Biology and Chemistry or Physics or NGSS Physical Science (may be concurrent)
Weight: General
Duration/Credit: Year/1 Credit
PGR: #6 Reading for Information
Course Designation: STEM

Environmental science is the study of how humans interact with the environment. This course provides an introduction to environmental science and includes study of the major earth systems, ecosystems, populations, water, air, atmosphere, climate, land, energy and biodiversity. Projects and lab work related to these topics will be performed. This course is NOT a substitute for biology credit.

ADVANCED PLACEMENT (AP) ENVIRONMENTAL SCIENCE

Course Number: SCIAP1366
Open To: Grades 11-12
Prerequisites: Biology and CP Chemistry or CP Physics (may be concurrent)
Weight: AP
Duration/Credit: Year /1.5 Credits (Only 1 year long period in the schedule)
Course Designation: STEM

The AP Environmental Science course is designed to be the equivalent of a one-semester, introductory college course in environmental science. The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the inter-relationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Students who take this course are expected to take the Advanced Placement exam.

ANATOMY AND PHYSIOLOGY

Course Number: SCICP1372
Open To: Grades 11-12
Prerequisites: CP Biology and CP Chemistry or CP Physics
Weight: College Prep
Duration/Credit: Year/1 Credit
PGR: #6 Reading for Information
Course Designation: STEM

This rigorous and detail-oriented course provides students an opportunity to investigate the tissues, organs, and systems of the human body. Students will become fluent in a substantial amount of terminology as they improve their ability to identify structures and formulate explanations for complex functions and interactions that occur within the human body. Students will not only use images and models to support their understanding but will also be required to perform dissections of individual organs as well as whole organisms. This course should be considered by students who may be thinking of entering health care, animal care or related medical fields.

NGSS PHYSICAL SCIENCE

Course Number: SCIGN1330
Open To: Grades 11
Prerequisites: None
Weight: General
Duration/Credit: Year/1 Credit
PGR: #6 Reading for Information
Course Designation: STEM

This course, which is aligned with the Next Generation Science Standards, focuses on key concepts within the Physical Science disciplinary core ideas which include an integration of both Chemistry: Molecular level structure and function of atoms & the conservation of mass during chemical reactions, and Physics: Energy conservation and transformation within systems & Newton's laws. This course also integrates opportunities for students to apply science and engineering practices and requires students to analyze and develop their understanding of cross-cutting concepts that have applications across all domains of science.

FORENSICS

Course Number: SCIGN1380
Open To: Grade 12
Prerequisites: Biology and Chemistry or Physics or NGSS Physical Science
Weight: General
Duration/Credit: Year/1 Credit
PGR: #6 Reading for Information
Course Designation: STEM

This course explores the science of crime-solving through case studies and laboratory activities. Students will develop their critical thinking skills as they analyze various forms of evidence. They will also study the Biological, Physical, Chemical and Earth Science concepts which make this analysis possible. Topics studied include fingerprints and impressions, ballistics, trace evidence, blood and blood spatter, DNA fingerprinting, forensic anthropology (human remains), mechanism, manner, and cause of death, handwriting analysis, counterfeiting, and the psychology and patterns of serial killers.

SCIENCE LEADERSHIP

Course Number: SCICP1390 Semester, SCICP1392 Year
Open To: Grade 12
Prerequisites: Science, Biology and Chemistry or Physics or NGSS Physical Science, and
Department Chair approval
Weight: None
Duration/Credit: Semester/.5 Credit or Year/1 Credit

Prospective candidates should meet with the department chair with a request to assist a teacher in their classroom. Students should embark on this course only if they are eager to serve as a helper in the science classroom. Duties may include assisting small group activities, setting up or cleaning up laboratory experiments, making copies and meeting with other science teachers to help facilitate the teaching experience. Attendance during the entire course is a requirement for successful completion. An assessment upon completion of the course will be given. Students will earn either a pass (P) or fail (F) grade and will not be calculated in class rank and GPA.

SOCIAL STUDIES DEPARTMENT

[Click here to return to Table of Contents](#)

| Course # | Title | Level | Credit | Duration | Grade |
|-----------------|---|--------------|---------------|-----------------|--------------|
| SOCHN1214 | Honors World History # | Honors | 1 | Year | 9 |
| SOCCP1214 | CP World History College Career Readiness # | College Prep | 1 | Year | 9 |
| SOCGN1220 | General American Government # | General | 1 | Year | 10 |
| SOCCP1222 | CP American Government # | College Prep | 1 | Year | 10 |
| SOCHN1224 | Honors American Government # | Honors | 1 | Year | 10 |
| SOCGN1230 | General United States History # | General | 1 | Year | 11 |
| SOCCP1232 | CP United States History # | College Prep | 1 | Year | 11 |
| SOCAP1236 | AP United States History # | AP | 1 | Year | 11 |
| SOCCP1250 | Economics # | College Prep | .5 | Semester | 11-12 |
| SOCCP1252 | Contemporary Issues # | College Prep | .5 | Semester | 12 |
| SOCCP1256 | Psychology CP # | College Prep | .5 | Semester | 11-12 |
| SOCCP1260 | Sociology CP # | College Prep | .5 | Semester | 11-12 |
| SOCCP1264 | African American & Latino Studies | College Prep | 1 | Year | 11-12 |

NCAA approved course

For grade 9 courses, students have opportunities to write persuasive essays on topics in Social Studies for graded assignments and as practice for meeting the PGR requirement for Persuasive Argument (also sophomore year). Students also may earn PGR credit for Reading for Information through their coursework beginning in grade 10.

HONORS WORLD HISTORY

Course Number: SOCHN1214

Open To: Grade 9

Prerequisites: STAR scaled score of 1000 and grade 8 Social Studies grade of 90 Weight:

Honors

Duration/Credit: Year/1 Credit

Course Designation: Humanities

This rigorous course is an intense study of the history of modern nation states designed for motivated students that have proficient habits of work. This course covers Africa, Latin America, the Middle East, Japan, China, Southern Asia, and Europe. The course focuses on the history, geography, political, and economic philosophies covering the period of Absolutism to the Present Day in this inquiry-based learning course. The class expectations include participation in discourse sessions, intense outside reading assignments, individual and group projects, written and oral reports, and essay exams.

CP WORLD HISTORY COLLEGE CAREER READINESS

Course Number: SOCCP1214

Open To: Grade 9

Prerequisites: None

Weight: CP

Duration/Credit: Year/1 Credit

Course Designation: Humanities

This course is an intense study of modern world history. This course covers Africa, the Middle East, Latin American, Asia, and Europe. The course provides an overview of the histories of nation states from the period of Absolutism through the 20th Century. The class expectations include the use of historical academic inquiry, discussion sessions, outside reading assignments, individual and group projects, written and oral reports, and essay exams.

GENERAL AMERICAN GOVERNMENT

Course Number: SOCGN1220
 Open To: Grade 10
 Prerequisites: None
 Weight: General
 Duration/Credit: Year/1 Credit
 PGR: #3 Persuasive Argument, #6 Reading for Information
 Course Designation: Humanities

Students will be concentrating on the foundations of government, American geography, the three branches of government, the Bill of Rights/civil liberties, criminal, and civil law. The class expectations include outside reading assignments, individual and group projects, written and oral reports, class discussion, objective, and subjective exams.

CP AMERICAN GOVERNMENT

Course Number: SOCCP1222
 Open To: Grade 10
 Prerequisites: None
 Weight: College Prep
 Duration/Credit: Year/1 Credit
 PGR: #3 Persuasive Argument, #6 Reading for Information
 Course Designation: Humanities

This course is an intensive study of American government and law. Students will concentrate on the foundations of government, American geography, the three branches of government, the Bill of Rights/civil liberties, criminal, and civil law. The class expectations include outside reading assignments, individual and group projects, written and oral reports, class discussion, and essay exams.

HONORS AMERICAN GOVERNMENT

Course Number: SOCHN1224
 Open To: Grade 10
 Prerequisites: None
 Weight: Honors
 Duration/Credit: Year/1 Credit
 PGR: #3 Persuasive Argument, #6 Reading for Information
 Course Designation: Humanities

This course is a state mandated requirement. This course provides an in-depth study of the United States government with an emphasis on the U.S. Constitution. Students will examine the historical factors and ideas that influenced the creation of the Republic. Students will explore the various characteristics that distinguish the

United States' government as a democracy. Students will also examine their rights and responsibilities as U.S. citizens. Civic responsibility, including informed and active citizenship, will be emphasized. This course is reading and writing intensive.

GENERAL UNITED STATES HISTORY

Course Number: SOCGN1230
Open To: Grade 11
Prerequisites: None
Weight: General
Duration/Credit: Year/1 Credit
PGR: #3 Persuasive Argument, #6 Reading for Information
Course Designation: Humanities

This course is a general survey of the American past from the 1900s to the present. Topics include: the Progressive era, the Great Depression, the rise of totalitarian governments and WWII. The textbook is the principal source for students, though outside readings may be assigned periodically. Students must read, analyze, think critically, and discuss historical situations of the past 140 years.

CP UNITED STATES HISTORY

Course Number: SOCCP1232
Open To: Grade 11
Prerequisites: None
Weight: College Prep
Duration/Credit: Year/1 Credit
PGR: #3 Persuasive Argument, #6 Reading for Information
Course Designation: Humanities

United States History is a graduation requirement which covers the developments of the United States in the modern era from the beginning of the twentieth century through the beginning of the twenty-first century. The students will concentrate on the social, political, and economic progress of the nation. In addition, students will become familiar with the cultural and technological advances of the United States. The class will be expected to use the text, supplementary primary and secondary sources, biographies, videos, and internet generated materials. An emphasis will be placed on linking the past of America to its present. This is a reading and writing intensive course.

AP UNITED STATES HISTORY

Course Number: SOCAP1236
Open To: Grades 10-12
Prerequisites: College Prep Social Studies recommended or teacher recommendation
Weight: Advanced Placement
Duration/Credit: Year/1 Credit
PGR: #3 Persuasive Argument, #6 Reading for Information
Course Designation: Humanities

The Advanced Placement United States History course provides students with the analytical skills and knowledge necessary to deal critically with the problems and materials in American history. Course work prepares students for college courses by having requirements equivalent to those they will face in their introductory college courses.

Content includes the pre-colonial period to the present. Students assess historical materials, their relevance to a given problem, their reliability, and their importance, allowing students to weigh the evidence and make historical interpretations. Students can thus develop the ability to arrive at conclusions based on informed judgment and present persuasive evidence clearly in essay format. Admission to the Advanced Placement United States History course and the student's level of success depends upon his/her commitment to the subject as well as high aptitude scores and/or outstanding grade records. Students must maintain at least a "C" average to remain. The Advanced Placement National Examination in American History is a requirement for receiving AP credit and is given in May each year.

ECONOMICS

Course Number: SOCCP1250
Open To: Grade 11-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit
PGR: #3 Persuasive Argument, #6 Reading for Information
Course Designation: Humanities

This course is a comprehensive introductory survey of economics, with a focus on macroeconomic issues. Students will study the capitalist economic system and government policies that affect it. Current economic data and trends will be used as real-world examples to augment textual analysis. Finally, the international political ramifications of economic growth and size will be analyzed in a modern as well as a historical context.

CONTEMPORARY ISSUES

Course Number: SOCCP1252
Open To: Grade 12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit (Course may be taken only once for credit)
PGR: #3 Persuasive Argument, #6 Reading for Information
Course Designation: Humanities

This course examines current problems of national and international relations, emphasizing their concern for the United States. Students critically examine issues of continuing importance by reading newspapers, news magazines, and viewing videotapes of newsworthy events. Through class discussions, organized debates, and written commentaries, students present their positions and critical judgments of national and international issues. Active student participation is an integral aspect of Contemporary Issues and forms a component of the student's grade. Limited seating.

PSYCHOLOGY CP

Course Number: SOCCP1256
Open To: Grade 11-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit
PGR: #3 Persuasive Argument, #6 Reading for Information
Course Designation: Humanities

This course covers the various theories and principles of human behavior, emphasizing self-awareness and individual behaviors. Units of study include schools of psychology, perceptions, learning, memory, intelligence, developmental psychology, personality, emotions, motivation, state of consciousness and abnormal behavior. Additional readings, class discussions, and writing are required.

SOCIOLOGY CP

Course Number: SOCCP1260
Open To: Grade 11-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit
PGR: #3 Persuasive Argument, #6 Reading for Information
Course Designation: Humanities

This course is an introductory survey course. Focus is on developing skills in group relationships and acquiring an understanding of selected social problems which confront all students. Units of study cover such topics as social structure, cultural diversity, social interaction, social control, change, conflict, socialization, the family, and social inequality. Additional readings, class discussions, and writing are required.

AFRICAN AMERICAN/BLACK AND PUERTO RICAN/LATINO STUDIES

Course Number: SOCCP1264
Open To: Grade 11-12
Prerequisites: US History is required, World History is also recommended
Weight: College Prep
Duration/Credit: Year/1.0 Credit
PGR: #3 Persuasive Argument, #6 Reading for Information
Course Designation: Humanities

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.

TECHNOLOGY DEPARTMENT

[Click here to return to Table of Contents](#)

| Course # | Title | Level | Credit | Duration | Grade |
|-----------------|---|--------------|---------------|-----------------|--------------|
| | Architecture and Construction Technology | | | | |
| TECGN1560 | Fundamentals of Construction Technology | General | .5 | Semester | 9-12 |
| TECCP1563 | Architectural Engineering | College Prep | .5 | Semester | 9-12 |
| TECCP1564 | Architectural Engineering 2 | College Prep | .5 | Semester | 9-12 |
| TECCP1566 | Construction Applications | College Prep | 1 | Year | 10-12 |
| TECCP1568 | Construction Management | College Prep | .5 | Semester | 10-12 |
| TECHN1571 | Advanced Technology - Construction | Honors | .5 | Semester | 11-12 |

| | | | | | |
|-----------|--|--------------|----|----------|-------|
| | Industrial Design and Engineering | | | | |
| TECCP1544 | Principles of Engineering | College Prep | .5 | Semester | 9-12 |
| TECCP1545 | Advanced Engineering Design & Dev. | College Prep | .5 | Semester | 9-12 |
| TECCP1546 | Mechanical Drafting | College Prep | .5 | Semester | 9-12 |
| TECCP1548 | Mechanical Engineering | College Prep | .5 | Semester | 9-12 |
| TECCP1549 | Mechanical Engineering 2 | College Prep | .5 | Semester | 9-12 |
| TECHN1550 | Advanced Technology – Robotics | Honors | 1 | Year | 11-12 |
| TECHN1541 | Principles of Manufacturing | Honors | .5 | Semester | 9-12 |
| TECHN1542 | Advanced Principles of Manufacturing | Honors | 1 | Year | 11-12 |
| TECCP1552 | Robotics 1 | College Prep | .5 | Semester | 9-12 |
| TECCP1553 | Robotics 2 | College Prep | .5 | Semester | 9-12 |
| TECCP1554 | Robotics 3 | College Prep | 1 | Semester | 10-12 |

| | | | | | |
|-----------|----------------------------------|--------------|----|----------|-------|
| | Video Production | | | | |
| TECCP1521 | Introduction to Video Technology | College Prep | .5 | Semester | 9-12 |
| TECCP1524 | Film Production | College Prep | 1 | Year | 10-12 |
| TECCP1525 | KHS Productions | College Prep | .5 | Semester | 9-12 |
| TECCP1527 | Advanced Video & Effect Editing | College Prep | .5 | Semester | 9-12 |
| TECCP1528 | Broadcast Journalism | College Prep | 1 | Year | 11-12 |

Architecture and Construction Technology

FUNDAMENTALS OF CONSTRUCTION TECHNOLOGY

Course Number: TECGN1560
 Open To: Grades 9-12
 Prerequisites: None
 Weight: General
 Duration/Credit: Semester/.5 Credit
 Course Designation: STEM

This course will introduce students to the field of construction. Students will learn concepts, terminology, and

procedures associated with construction technology and apply them to hands-on problem-solving experiences. This course will expose students to a wide variety of tools, materials, and processes they will use to fabricate solutions for activities. Students will also be trained in the safe use of tools and equipment in the construction lab and jobsite.

ARCHITECTURAL ENGINEERING

Course Number: TECCP1563
Open To: Grades 9-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit
Course Designation: STEM

This course will introduce students to the field of Architecture. They will explore the cultural and environmental impacts on architecture and design structures based on building codes and different construction methods. They will become fluent in a program called Chief Architect and use it to create and build 3D models of structures. This process will require them to measure proficiently, read prints, and use problem solving techniques.

ARCHITECTURAL ENGINEERING 2

Course Number: TECCP1564
Open To: Grades 9-12
Prerequisites: Architectural Engineering
Weight: College Prep
Duration/Credit: Semester/.5 Credit
Course Designation: STEM

This course is designed for students that want to expand their ability to produce accurate and detailed design projects that incorporate constraints. This course will explore the principles of physics associated with designing structures and current trends in the fields of architecture and construction. Design presentations will be made to actual clients.

CONSTRUCTION APPLICATIONS

Course Number: TECCP1566
Open To: Grades 10-12
Prerequisites: Fundamentals of Construction Technology
Weight: College Prep
Duration/Credit: Year/1 Credit
Course Designation: STEM

This course concentrates on residential construction technologies. A home is often the single largest financial investment an individual will make. This course will introduce you to the principles of structural design and framing methods. It will also introduce you to the wide array of subsystems used in residential construction. This is a hands-on course where students will be required to produce products that represent their understanding of the key concepts involved.

CONSTRUCTION MANAGEMENT

Course Number: TECCP1568

Open To: Grades 10-12
Prerequisites: Construction Applications
Weight: College Prep
Duration/Credit: Semester/.5 Credit
Course Designation: STEM

This course concentrates on the concepts necessary to be successful in the field of construction management. Students will be proficient with programs and processes associated with architectural print reading, materials list development, pricing, scheduling and business management.

ADVANCED TECHNOLOGY - CONSTRUCTION

Course Number: TECHN1571
Open To: Grades 11-12
Prerequisites: Fundamentals of Construction Technology, another construction pathway technology class, and teacher recommendation.
Weight: Honors
Duration/Credit: Semester/.5 Credit *QVCC credit
Course Designation: STEM

This class is designed for students who wish to pursue advanced topics in technology. Topics will be chosen by student and instructor interest.

Industrial Design and Engineering

PRINCIPLES OF ENGINEERING

Course Number: TECCP1544
Open To: Grades 9-12
Prerequisites: Fundamentals of Construction Technology recommended
Weight: College Prep
Duration/Credit: Semester/.5 Credit
Course Designation: STEM

This is a hands-on course designed to introduce students to some of the key concepts used to create and modify inventions. It will require students to solve engineering challenges by constructing solutions. There is a strong emphasis on math concepts and how physical objects create movement. Projects may include Rube Goldberg machines and VEX robotics.

ADVANCED ENGINEERING DESIGN AND DEVELOPMENT

Course Number: TECCP1545
Open To: Grades 9-12
Prerequisites: Principles of Engineering
Weight: College Prep
Duration/Credit: Semester/.5 Credit
Course Designation: STEM

Students utilize the engineering design process, applying science, math, engineering, and technology standards (STEM) to applied learning models and projects. This course includes a curriculum that utilizes concepts and

terms covered in Principles of Engineering. Students develop skills in problem solving, research and design, while learning strategies for design process, documentation, collaboration, and presentation. Students will work both individually and in teams to design solutions to problems and will use an engineering notebook to document their work. Students taking this course should be considering further education (college or technical schools) in the engineering field.

MECHANICAL DRAFTING

Course Number: TECCP1546
Open To: Grades 9-12
Prerequisites: Fundamentals of Construction Technology
Weight: College Prep
Duration/Credit: Semester/.5 Credit *QVCC Credit Available
Course Designation: STEM

This course will introduce the student to the fundamentals of mechanical drawing skills which are essential for engineers, architects, machinists, and most tradesmen. Students will use drafting tools to create fully dimensioned single and multi-view drawings. By the end of this course, the student will use a computer aided design program to create additional designs that are a finished product of the technical drawings.

MECHANICAL ENGINEERING

Course Number: TECCP1548
Open To: Grades 9-12
Prerequisites: Fundamentals of Construction Technology; Mechanical Drafting recommended
Weight: College Prep
Duration/Credit: Semester/.5 Credit
Course Designation: STEM

This course will introduce students to the fundamentals of 3-dimensional computer aided design.

MECHANICAL ENGINEERING 2

Course Number: TECCP1549
Open To: Grades 9-12
Prerequisites: Mechanical Engineering
Weight: College Prep
Duration/Credit: Semester/.5 Credit
Course Designation: STEM

This course will continue to explore the field of Mechanical Engineering and the use of 3D technology associated with current design practices. This course will use industry grade design software and 3D printers along with numerous engineering concepts to create solutions in the field of engineering.

ROBOTICS 1

Course Number: TECCP1552
Open To: Grades 9-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit

Course Designation: STEM

This exciting, hands-on course introduces students to the world of robotics. Students learn fundamental engineering concepts, such as the engineering design process and how to maintain an engineering notebook. Students will construct their first fully functioning robot as they learn the critical importance of safety and teamwork in the robotics lab. After the robot is designed and built, the students test, troubleshoot and operate their creation. The final project involves a challenge on the robotics playing field.

ROBOTICS 2

Course Number: TECCP1553
Open To: Grades 9-12
Prerequisites: Robotics 1 or teacher recommendation
Weight: College Prep
Duration/Credit: Semester/.5 Credit
Course Designation: STEM

This engaging, hands-on course further develops students' expertise in the realm of robotics. Students refine their robot design and learn to improve their creation using the engineering design process. Students collaborate to solve real world problems based on the current year's game challenge. As they start to master the concepts in robotics, students compete in class to see who has the best overall design, build, control, and game strategy!

ROBOTICS 3

Course Number: TECCP1554
Open To: Grades 9-12
Prerequisites: Robotics 2 with at least an 80 average or teacher recommendation
Weight: College Prep
Duration/Credit: Year/1.0 Credit
Course Designation: STEM

This challenging, hands-on course allows serious roboticists to showcase their skills and knowledge with robotics and mechatronic systems through real-world challenges. Competitive robotics provides an excellent way for students to test their robots, improve their designs, and build the highest performing systems possible. In class competitions will provide students the opportunity to truly engage in an exciting and rewarding learning experience while developing skills in engineering. For those students who wish to truly elevate their game, local, regional, national, and international robotics competitions await!

ADVANCED TECHNOLOGY - ROBOTICS 4

Course Number: TECHN1550
Open To: Grades 11-12 *May be repeated for credit.*
Prerequisites: Robotics 3 with at least an 80 Average or teacher recommendation.
Weight: Honors
Duration/Credit: Year/1.0 (**This course meets outside of school hours**)
Course Designation: STEM

This rigorous course offers the ultimate experience for students looking to pursue careers in engineering, robotics, or mechatronics. Through competitive robotics, both in class and in regional, state, national, and international competitions, students will develop real-world skills in engineering design, collaboration, teamwork, project,

time, and resource management, leadership, problem-solving, data analysis, and redesign. This class is designed for students that have completed at least Robotics 1 & 2 and that wish to take their accumulated experiences to a new level. It will require extensive work, focus, and motivation.

PRINCIPLES OF MANUFACTURING

Course Number: TECHN1541
Open To: Grades 10-12
Prerequisites: Mechanical Drafting recommended
Weight: Honors
Duration/Credit: Fall Semester/.5 Credit
Course Designation: STEM

This fall semester course for seniors only is used as an introductory course to be taken in conjunction with the rigorous Advanced Principles of Manufacturing in the spring semester. This course introduces students to the concepts used by professionals in the manufacturing field, including mathematics, measurement, blueprint reading and tooling skills.

ADVANCED PRINCIPLES OF MANUFACTURING

Course Number: TECHN1542
Open To: Grades 11-12
Prerequisites: Introduction to Principles of Manufacturing, teacher recommendation.
Weight: Honors
Duration/Credit: Year/1 Credit *QVCC credit - Advanced Manufacturing Credit
Course Designation: STEM

This rigorous course, to be taken upon successful completion of the fall semester Introduction to Manufacturing Principles, is for seniors only and has a curriculum that is formatted by the Youth Manufacturing Pipeline Initiative in partnership with QVCC and TRCC. Completion in this course involves pretesting and testing for manufacturing certifications in layout, tooling, and quality assurance. Manufacturing companies will review all candidates in this program for future employment in the manufacturing field.

Video Production

INTRODUCTION TO VIDEO TECHNOLOGY

Course Number: TECCP1521
Open To: Grades 9-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit
Course Designation: STEM/Humanities (fulfills *Visual Arts* requirement)

This course will cover aspects of both studio and field production. Learn how to operate the TV studio equipment and produce news programs, talk shows, and more. Also, explore the fundamentals of creating field productions, such as commercials, PSAs, music videos and more. Learn how to shoot in conditions outside of the studio setting and learn the basics of video editing. This course is a prerequisite for all other video tech classes.

FILM PRODUCTION

Course Number: TECCP1524
Open To: Grades 10-12
Prerequisites: Intro to Video Technology required, Adv. Video & Effect Editing recommended
Weight: College Prep
Duration/Credit: Year/1 Credit
Course Designation: STEM/Humanities (fulfills *Visual Arts* requirement)

The content of this course emphasizes “advanced” filmmaking techniques. Students in this course will work together as a movie crew to produce longer projects including documentaries and short movies. Emphasis will be put on pre-production planning, filming & editing a short film, and submitting your film to the Quiet Corner Film Festival. This course will stress teamwork and will require extra time outside of class for filming.

KHS PRODUCTIONS

Course Number: TECCP1525
Open To: Grades 10-12
Prerequisites: Intro to Video Technology/Department Head approval
Weight: College Prep
Duration/Credit: Semester/.5 Credit
Course Designation: STEM/Humanities (fulfills *Visual Arts* requirement)

This class would run like a real working production company. Students in this class would work closely with community business partners to create corporate videos, web videos, commercials, or promotional materials. In the past students have worked with companies like Frito Lay, Mystic Seaport, Web Industries & Day Kimball Hospital. Students could also record after school events and activities like sports, concerts & drama. Students in this class would be REQUIRED to complete some filming outside of regular school hours.

ADVANCED VIDEO & EFFECT EDITING

Course Number: TECCP1527
Open To: Grades 9-12
Prerequisites: Intro to Video Technology
Weight: College Prep
Duration/Credit: Semester/.5 Credit
Course Designation: STEM/Humanities (fulfills *Visual Arts* requirement)

Editing video is about movement, lighting, color, and psychology. In this course, you will learn advanced editing techniques using Adobe Premier and how to apply time-honored principles of film editing using today’s digital technology. In addition, this course will cover the basics of After Effects to create sophisticated motion graphics and special visual effects as well as some basic 3D animation.

BROADCAST JOURNALISM (KTV)

Course Number: TECCP1528
Open To: Grades 11-12
Prerequisites: Department Head approval/Successful completion of 2 other video tech classes
Weight: College Prep
Duration/Credit: Year/1 Credit
Course Designation: STEM/Humanities

Due to the high-profile nature of KTV in the community and the possible field trip to compete in the Student Television Network Convention, students signing up for this course will be required to interview with the Video Technology Department Head to determine selection for the course. In this course students learn the basics of news reporting (Broadcast Journalism). Communication skills are developed through research, interviews, videography, script writing and editing. Through their daily work, students will produce a news program (KTV) for broadcast on the web and on Atlantic Broadband Channel 22.

WORLD LANGUAGES DEPARTMENT

[Click here to return to Table of Contents](#)

| Course # | Title | Level | Credit | Duration | Grade |
|-----------------|--------------------|--------------|---------------|-----------------|--------------|
| WLGCP1406 | French 1 CP # | College Prep | 1 | Year | 9-12 |
| WLGCP1408 | Latin 1 CP # | College Prep | 1 | Year | 9-12 |
| WLGCP1410 | Spanish 1 CP # | College Prep | 1 | Year | 9-12 |
| WLGHN1416 | Spanish 1 Honors # | Honors | 1 | Year | 9-12 |
| WLGHN1414 | Latin 1 Honors # | Honors | 1 | Year | 9-12 |
| WLGCP1420 | French 2 CP # | College Prep | 1 | Year | 10-12 |
| WLGHN1422 | French 2 Honors # | Honors | 1 | Year | 10-12 |
| WLGHN1424 | Latin 2 Honors # | Honors | 1 | Year | 10-12 |
| WLGCP1426 | Spanish 2 CP # | College Prep | 1 | Year | 10-12 |
| WLGHN1428 | Spanish 2 Honors # | Honors | 1 | Year | 10-12 |
| WLGCP1430 | French 3 CP # | College Prep | 1 | Year | 11-12 |
| WLGHN1432 | French 3 Honors # | Honors | 1 | Year | 11-12 |
| WLGAP1434 | AP/ECE Latin 3 # | AP | 1.5 | Year | 11-12 |
| WLGCP1436 | Spanish 3 CP # | College Prep | 1 | Year | 11-12 |
| WLGHN1438 | Spanish 3 Honors # | Honors | 1 | Year | 11-12 |
| WLGHN1444 | French 4 Honors # | Honors | 1 | Year | 12 |
| WLGAP1446 | AP/ECE Latin 4 # | AP | 1.5 | Year | 12 |
| WLGHN1448 | Spanish 4 Honors # | Honors | 1 | Year | 12 |
| WLGHN1456 | Spanish 5 Honors # | Honors | 1 | Year | 12 |

NCAA approved course

FRENCH AND SPANISH

Using the 5 C's (*communication, cultures, connections, comparisons, and communities*) as the basis for all modern language course instruction (Spanish and French), the students will study language, customs and traditions while developing the communication skills necessary for understanding and communicating within such target cultures. The student will learn to comprehend written language, write proficiently, access, analyze, and draw conclusions from information to solve problems, and speak effectively. We are committed to preparing our students to be productive and responsible citizens who are lifelong learners, prepared to participate in a global community. Our program challenges our students intellectually, socially, and creatively, and encourages them to cultivate their unique talents in an environment that is supportive, structured, and secure.

LATIN

The World Languages Department offers four years of Latin, focusing on the language, literature, and culture of Roman civilization. Latin provides the roots for modern Romance languages, including French, Spanish, Portuguese, and Italian. It demonstrates the roots of most English words, usage, and spelling and terminology for fields of medicine, science, agriculture, and law. Graduates have gone on to careers in law, medicine, and

teaching. Roman literature is a major influence on modern literature, American government, and Western culture. First-year students have the option of taking Latin 1 College Prep as an introduction or Latin 1 Honors as the first step in the Latin honors track. Students in the third and fourth year earn six college credits in Latin at the University of Connecticut through the Early College Experience Program, and fourth-year students take the Advanced Placement Examination for college credit.

FRENCH 1 CP

Course Number: WLGCP1406

Open To: Grades 9-12

Prerequisites: None

Weight: College Prep

Duration/Credit: Year/1 Credit

Course Designation: Humanities

Students will learn the fundamentals of the language with an emphasis on the vocabulary and grammar structures that enable them to communicate within common everyday situations. There will be an emphasis on asking and answering questions as well as an emphasis on conversations, which will include the vocabulary and grammatical structures from the lessons. Listening skills will be emphasized. At the end of the course, the students should be able to communicate in oral and written form within the limits of the topics completed. The communication at this level will stress the use of simple present and past tense.

LATIN 1 CP

Course Number: WLGCP1408

Open To: Grades 9-12

Prerequisites: None

Weight: College Prep

Duration/Credit: Year/1 Credit

Course Designation: Humanities

This course introduces students to the Latin language's grammar, vocabulary, syntax, and structure. The study of Latin develops English word usage and spelling as well as skills in comprehending the meaning of sentences through reading and translating Latin text, introducing students to Roman literature, culture, history, and mythology. Students, from learning to study, modeling, tests and beginning in-class translation, develop a cumulative vocabulary and comprehension important to mastery in First Year as well as subsequent classes of Latin. Passages are discussed as a foundation for modern culture. This course is recommended for improving English vocabulary and reading as well as for all college-bound students—especially those interested in study of law, medicine, biology, botany, and agriculture.

SPANISH 1 CP

Course Number: WLGCP1410

Open To: Grades 9-12

Prerequisites: None

Weight: College Prep

Duration/Credit: Year/1 Credit

Course Designation: Humanities

Students will learn the fundamentals of the language with an emphasis on the vocabulary and grammar structures that enable them to communicate within common everyday situations. There will be an emphasis on asking and answering questions as well as an emphasis on conversations, which will include the vocabulary and grammatical structures from the lessons. Listening skills will be emphasized. At the end of the course, the students should be able to communicate in oral and written form within the limits of the topics completed. The communication at this level will stress the use of simple present tense. Students will be able to read and understand at the novice mid-level of the language.

SPANISH 1 HONORS

Course Number: WLGHN1416

Open To: Grades 9-12

Prerequisite: 9th Gr: Middle School Spanish teacher recommendation or concurrent enrollment in Hon. English. 10th-12th Gr: concurrent enrollment in Hon English.

Weight: Honors

Duration/Credit: Year/1 Credit

Course Designation: Humanities

Students will learn the fundamentals of the language with an emphasis on the vocabulary and grammatical structures that will enable them to read, write, listen, and speak about a variety of everyday situations. There will be an emphasis on conversational skills using the learned vocabulary and grammar. At the end of the course, students should be able to communicate in oral and written form about the topics that are covered. This course is intended for students with the desire to continue with Spanish throughout high school.

LATIN 1 HONORS

Course Number: WLGHN1414

Open to: Grades 9-12

Prerequisites: Students must be concurrently enrolled in Hon. English

Weight: Honors

Duration/Credit: Year/1 Credit

Course Designation: Humanities

This course introduces students to the Latin language's grammar, vocabulary, syntax, and structure. The study of Latin develops English word usage and spelling as well as skills in comprehending the meaning of sentences through reading and translating Latin text, introducing students to Roman literature, culture, history, and mythology. As Honors Latin 1 is accelerated, students, from learning to study, modeling, and beginning in-class translation, will complete two-thirds of the complete Latin grammar, vocabulary, and syntax necessary for upper-level study of Latin—which earns college credit at University of Connecticut for students in the Honors third and fourth year. Passages of original text will be discussed as a foundation for modern culture. Students will also read history of the Roman Republic. This course is recommended for all college-bound students, especially those interested in study of law, medicine, biology, botany, and agriculture. It is also important as a foundation for the study of Romantic languages and art history.

FRENCH 2 CP

Course Number: WLGCP1420

Open To: Grades 10-12

Prerequisites: French 1 with a grade of 75 or higher, or approval of instructor Weight:

College Prep

Duration/Credit: Year/1 Credit

Course Designation: Humanities

Following a short review of the basic grammar and vocabulary introduced in the first year, the students will be given more extensive vocabulary and grammar concepts to enable them to communicate orally and in writing in a slightly more sophisticated manner. They will learn more complex verb tenses that facilitate communication and narrative modes in the present, past and future. Through the course's content, the students will explore the customs and traditions of the people of the French speaking world. Listening and speaking skills will be emphasized. Students will be able to read and understand basic selections and discuss them at an intermediate level.

FRENCH 2 HONORS

Course Number: WLGHN1422

Open To: Grades 10-12

Prerequisites: French 1 with a grade of 90 or higher, or approval of instructor

Weight: Honors

Duration/Credit: Year/1 Credit

Course Designation: Humanities

This is an accelerated level 2 program that increases the student's listening comprehension, speaking, reading, and writing skills. Emphasis is on more complex grammar structures and cultural topics. Students will be able to read and understand basic selections and discuss them at an intermediate level.

LATIN 2 HONORS

Course Number: WLGHN1424

Open To: Grades 10-12

Prerequisites: Latin I with a grade of B- or higher, or approval of the instructor

Weight: Honors

Duration/Credit: Year/1 Credit

Course Designation: Humanities

Students complete study of Latin grammar and read selections of Roman history, mythology, comedy, and satire. Daily reading develops speed, accuracy, comprehension, and independence in the language as well as provide study of Roman civilization as the foundation for American government and western literature. Students will also apply Latin roots, words, and sentence structures in English composition. Students will read Apollonius' *Argonautica*, "The Story of Roman History" of Livy, and selections from *Commentaries* of Julius Caesar, Ovid's *Metamorphoses*, and comedies of Plautus. This course is recommended for students interested in studying the medical field, law, agriculture, literature, and other languages.

SPANISH 2 CP

Course Number: WLGCP1426

Open To: Grades 9-12

Prerequisites: Spanish 1 with a grade of 75 or higher, or approval of instructor

Weight: College Prep
Duration/Credit: Year/1 Credit
Course Designation: Humanities

Following a short review of the basic grammar and vocabulary introduced in the first year, the students will be given more extensive vocabulary and grammar concepts to enable them to communicate orally and in writing in a slightly more sophisticated manner. They will learn more complex verb tenses that facilitate communication and narrative modes in the present, past and simple future. Through the course's content, the students will explore the customs and traditions of the people of the Spanish speaking world. Listening and speaking skills will be emphasized. Students will be able to read and understand basic selections and discuss them at an intermediate level.

SPANISH 2 HONORS

Course Number: WLGHN1428
Open To: Grades 9-12
Prerequisites: Spanish 1 with a grade of 90 or higher, or approval of instructor
Weight: Honors
Duration/Credit: Year/1 Credit
Course Designation: Humanities

This is a more in-depth level 2 program that increases the student's listening comprehension, speaking, reading, and writing skills. Emphasis is on more complex grammar structures and cultural topics. Students will be able to read and understand basic selections and discuss them at an intermediate level.

FRENCH 3 CP

Course Number: WLGCP1430
Open To: Grades 11-12
Prerequisites: French 2 with a grade of 75 or higher, or approval of instructor
Weight: College Prep
Duration/Credit: Year/1 Credit
Course Designation: Humanities

The main objective of the third year is to enable the student to attain an increased degree of communicative competency and proficiency in each of the five language skills: listening, speaking, reading, writing and cultural awareness. The students will also continue to study some of the remaining grammatical structures. There will be, in addition to the grammar, an emphasis on writing short compositions and the presentation of short conversations.

FRENCH 3 HONORS

Course Number: WLGHN1432
Open to: Grades 11-12
Prerequisites: French 2 with a grade of 90 or higher, or approval of instructor
Weight: Honors
Duration/Credit: Year/1 Credit
Course Designation: Humanities

Honors French 3 students will begin their study of this course through summer work. The main objective of the third year is to enable the student to attain an increased degree of communicative competency and proficiency in each of the five language skills: listening, speaking, reading, writing and cultural awareness. The students will also continue to study some of the remaining grammatical structures. . There will be, in addition to the grammar, an emphasis on short readings and the writing of short compositions and the presentation of short conversations and oral compositions.

AP/ECE LATIN 3

Course Number: WLGAP1434
Open To: Grades 11-12
Prerequisites: Honors Latin 2 with a grade of C or higher, or approval of the instructor
Weight: AP
Duration/Credit: Year/1.5 Credits
*This class may earn college credits through UCONN**
Course Designation: Humanities

This course is for third- and fourth-year students of Latin. Students read selections from Caesar's *Gallic War* for its history, sentence structure, grammatical elements, syntax, and literary motifs. The course moves between translation and textual analysis. Students also will read Catullus' *Poems* and analyze them for sound, structure, literary motifs, and meaning. Students who maintain an average of C or higher will earn 3 credits at the University of Connecticut. Students are encouraged to take the SAT Subject test in Latin. This course prepares students for the Advanced Placement examination in Vergil and Caesar.

****To earn the 3 available UCONN credits, students must complete the UCONN Early College Experience (ECE) application and enrollment steps, and submit any applicable course fees.****

SPANISH 3 CP

Course Number: WLGCP1436
Open To: Grades 10-12
Prerequisites: Spanish 2 with a grade of 75 or higher, or approval of instructor
Weight: College Prep
Duration/Credit: Year/1 Credit
Course Designation: Humanities

The main objective of the third year is to enable the student to attain an increased degree of communicative competency and proficiency in each of the five language skills: listening, speaking, reading, writing and cultural awareness. The students will also continue to study some of the remaining grammatical structures. There will be, in addition to the grammar, an emphasis on writing short compositions and the presentation of short conversations.

SPANISH 3 HONORS

Course Number: WLGHN1438
Open to: Grades 10-12
Prerequisites: Spanish 2 with a grade of 90 or higher, or approval of instructor
Weight: Honors
Duration/Credit: Year/1 Credit
Course Designation: Humanities

The main objective of the third year is to enable the student to attain an increased degree of communicative competency and proficiency in each of the five language skills: listening, speaking, reading, writing and cultural awareness. The students will also continue to study some of the remaining grammatical structures. There will be, in addition to the grammar, an emphasis on short readings and the writing of short compositions and the presentation of short conversations and oral compositions.

FRENCH 4 HONORS

Course Number: WLGHN1444
Open To: Grades 12
Prerequisites: French 3, with a grade of 80 or higher, or approval of instructor
Weight: Honors
Duration/Credit: Year/1 Credit
Course Designation: Humanities

The French IV program is a bridge between the French III and French V program which is available for University of Connecticut credit. It includes an advanced review of several verb tenses and more complex grammar structures. Students will improve their reading skills as they read short stories by various French authors. There will be a greater emphasis on writing and speaking.

AP/ECE LATIN 4

Course Number: WLGAP1446
Open To: Grade 11-12
Prerequisites: UConn ECE/ AP Latin 3
Weight: AP
Duration/Credit: 1.5 credits
*This class may earn college credits through UCONN**
Course Designation: Humanities

This course is for third- and fourth-year students of Latin. Students read selections from Vergil's *Aeneid* and read to understand the poet's purpose, poetic techniques, characteristics of epic poetry, and connection to civil war and Augustan peace. The course moves between translation and analysis of sound, structure, motifs, and application of literary criticism. The course earns 3 credits at the University of Connecticut for the student who earns a grade of C or higher. Students may also earn college credit by taking the Advanced Placement Examination in Vergil and Caesar. Students are encouraged to take the SAT II in Latin.

****To earn the 3 available UCONN credits, students must complete the UCONN Early College Experience (ECE) application and enrollment steps, and submit any applicable course fees.****

SPANISH 4 HONORS

Course Number: WLGHN1448
Open To: Grades 11-12
Prerequisites: Spanish 3 with grade of 80 or higher and approval of instructor
Weight: Honors
Duration/Credit: Year/1 Credit
Course Designation: Humanities

The fourth year Spanish will continue the development of oral skills and improve reading skills to acquaint the student with all genres of culturally relevant materials to give the student a broad view of contemporary Spanish

and Latin-American life. The selections come from newspapers, magazines, short stories, drama, and historical cultural textbooks. The study of grammar is continued primarily on those points in which there are conflict areas. It includes an advanced review of several verb tenses and more. The emphasis is on thinking, speaking, and writing in Spanish.

SPANISH 5 HONORS

Course Number: WLGHN1456
Open To: Grade 12
Prerequisites: Spanish 4, with a grade of 85 or higher, or approval of instructor
Weight: Honors
Duration/Credit: Year/1 Credit
Course Designation: Humanities

This course emphasizes the in-depth development of speaking and writing skills through cultural readings, group discussions, oral presentations and written composition on selected topics concerning the Spanish-speaking world.

KILLINGLY HIGH SCHOOL CAREER PATHWAYS PROGRAM

Killingly High School Career Center
226 Putnam Pike
Killingly, CT 06241
(860) 779-6663

<https://www.killinglyschools.org/killingly-high-school/classrooms/career-center>



The Power of Career Pathways!

Career Pathways offer Several benefits to students, employers, educators, and society. The following are highlights of some of the benefits:

- Students who complete one or more career pathways receive recognition at graduation for that career pathway.
- Students may earn credits toward college.
- Students learn how to apply academic concepts to their career of interest.
- Students are goal oriented and motivated to succeed in school.
- Career Pathways provide direction to students, moving them toward personal and professional goals, while providing the flexibility to change their chosen career pathway.
- Career Pathways are academically rigorous. They integrate STEAM subjects (science, technology, engineering, arts, and mathematics) with language arts, social studies, history, and other academic subjects in the context of the world of work.
- Career Pathways offer a variety of experiential learning opportunities, appealing to a variety of student learning styles.
- Career Pathways require every student to begin their career exploration early. As a result, every student has a sense of direction. Every course and every concept lead toward an identified goal.
- Career Pathways produce “knowledgeable workers” who understand systems and can solve problems in teams.
- Career Pathways are all about building toward the future, a future in which students can fulfill their potential ... on the job, in their homes and in their communities.
- (Institute for a Competitive Workforce-U.S. Chamber of Commerce, April 2012)

How do KHS students choose a Career Pathway?

Students may select an initial Career Pathway and develop a related post-secondary career plan during their freshman year. Students will be able to review and revise their pathway choice each year based on their career exploration, course experiences, personal interests, research, and work-based activities. Students who accumulate the minimum of credits within a specific pathway will be recognized their senior year at an awards ceremony where they will receive an award and a medallion for graduation.

What Is Your Career Pathway?

Please use the link to explore our pathways:

<https://www.killinglyschools.org/killingly-high-school/classrooms/career-center>

Killingly High School Career Pathways

Table of Contents

Agricultural Education Cluster..... 90-94

Agricultural Engineering*
Animal Sciences*
Aquaculture*
Environmental Science*
Plant Science*

Arts and Communication Career Cluster..... 95-104

Broadcast Television*
Film Production
Fine Arts
Graphic Design*
Journalism*
Performing Arts Instrumental Music*
Performing Arts Theatre
Performing Arts Vocal Music*
Photography*

Business and Finance Career Cluster..... 105-110

Accounting*
Business Management*
Hospitality*
Marketing*
Personal Finance*

Construction & Industrial Design Cluster..... 111-116

Architecture*
Construction*
Engineering and Industrial Design*
Manufacturing*
Robotics*

Table of Contents continued on next page.

Killingly High School Career Pathways Table of Contents (Continued)

Education..... 117-118

World Language*

Government and Public Administration Career Cluster 119-122

Criminal Justice*

Global Studies*

Legal Services*

Information Technology Career Cluster..... 123-125

Computer Programming*

Interactive Media*

**Pathway completers may earn college credit for one or more courses depending on the student's course choices and availability. See specific pathway pages to find courses with college credit articulation.*

Agricultural Education Cluster

Agricultural Engineering Career Pathway

Animal Science Career Pathway

Aquaculture Career Pathway

Environmental Science Career Pathway

Plant Science Career Pathway

Career Pathway: AGRICULTURAL ENGINEERING

Career Cluster: Agricultural Education

To complete the **Agricultural Engineering Career Pathway**, students must earn credit in Agricultural Education 1, Agricultural Engineering 2, one 1.5 credit Agricultural Engineering Pathway Course*, 1 credit in Supervised Ag Experience** and a Job Shadow in Agricultural Engineering.

To complete the **Agricultural Engineering Advanced Career Pathway**, students must complete the additional 1.5 credit Agricultural Engineering Pathway Course* and earn a total of 1.5 credits in Supervised Ag Experience**. Advanced Pathway Completer status can also be awarded to students for excellent AFNR career skill development in an immersion SAE at the Career Pathway teacher's discretion.

| Required for all Agricultural Education Pathways | Credits Earned at KHS | College Credits Earned |
|---|-----------------------|------------------------|
| Agricultural Education 1 | 1 | |
| Supervised Agricultural Experience **can be enrolled multiple times for credit | .5 | |
| Ag Engineering Career Pathway Courses | Credits Earned at KHS | College Credits Earned |
| Agricultural Engineering 2 | 1 | |
| Agricultural Power and Technical Systems* | 1.5 | |
| Agricultural Structural Systems* | 1.5 | |
| Nursery Landscape* | 1.5 | 3 (UCONN) |
| PGR 1.8 – Job Shadow in Ag Engineering | PGR | |
| Other Recommended Courses | Credits Earned at KHS | College Credits Earned |
| Projects in Agricultural Mechanics | .5 | |
| Aquaculture and Aquaponics | .5 | |
| Construction Technology & Engineering | .5 | |
| Entrepreneurship | 0.5 | |
| Business Management | 1 | 3 (QVCC) |
| Robotics | .5 | |

Instructor: Calvin Brodersen

This Career Pathway could lead to one of the following careers: Welder, Supply Chain Specialist, Builder, Carpenter, Surveyor, Equipment Operator, Landscaper, Electrician, Equipment Salesperson, Truck Driver, Diesel Mechanic, Small Engine Repair Technician, Farmer, Agricultural Equipment Repair Technician, Machinist, Materials Fabricator, and others. (Rev'd 2/23)

Career Pathway: ANIMAL SCIENCE
Career Cluster: AGRICULTURAL EDUCATION

To complete the **Animal Science Career Pathway**, students must earn credit in Agricultural Education 1, Animal Science 2, one 1.5 credit Animal Science Pathway Course*, 1 credit in Supervised Ag Experience** and a Job Shadow in Animal Science.

To complete the **Animal Science Advanced Career Pathway**, students must complete the additional 1.5 credit Animal Science Pathway Course* and earn a total of 1.5 credits in Supervised Ag Experience**. Advanced Pathway Completer status can also be awarded to students for excellent AFNR career skill development in an immersion SAE at the Career Pathway teacher's discretion.

| Required for all Agricultural Education Pathways | Credits Earned at KHS | College Credits Earned |
|---|-----------------------|------------------------|
| Agricultural Education 1 | 1 | |
| Supervised Agricultural Experience **can be enrolled multiple times for credit | .5 | |
| Animal Science Career Pathway Courses | Credits Earned at KHS | College Credits Earned |
| Animal Science 2 | 1 | |
| Introduction to Companion Animals ECE* | 1.5 | 3 (UCONN) |
| Production Animal Science* | 1.5 | |
| Principles of Food Science* | 1.5 | |
| PGR 1.8 – Job Shadow in Animal Science | PGR | |
| Other Recommended Courses | Credits Earned at KHS | College Credits Earned |
| Projects in Agricultural Mechanics | .5 | |
| Construction Technology & Engineering | .5 | |
| Equine Science | .5 | |
| Honors or AP Chemistry | 1 | |
| Honors or AP Biology | 1 | |
| Business Management | 1 | 3 (QVCC) |
| Entrepreneurship | .5 | |
| Business Marketing | 1 | |

Instructor: Rebecca Pond

This Career Pathway could lead to one of the following careers: Veterinary Technician, Veterinarian, Farm Manager, Laboratory Assistant, Groomer, Kennel Worker, Animal Trainer, Animal Caretaker, Animal Breeder, Biologist, Zoologist, Agricultural or Food Scientist, Meat Inspector, Pathologist, Beekeeper, Animal Geneticist, and others. (Rev'd 2/23)

Career Pathway: ENVIRONMENTAL SCIENCE
Career Cluster: AGRICULTURAL EDUCATION

To complete the **Environmental Science Career Pathway**, students must earn credit in Agricultural Education 1, Environmental Science and Aquaculture 2, one 1.5 credit Environmental Science Pathway Course*, 1 credit in Supervised Ag Experience** and a Job Shadow in Environmental Science.

To complete the **Environmental Science Advanced Career Pathway**, students must complete the additional 1.5 credit Environmental Science Pathway Course* and earn a total of 1.5 credits in Supervised Ag Experience**. Advanced Pathway Completer status can also be awarded to students for excellent AFNR career skill development in an immersion SAE at the Career Pathway teacher's discretion.

| Required for all Agricultural Education Pathways | Credits Earned at KHS | College Credits Earned |
|---|-----------------------|------------------------|
| Agricultural Education 1 | 1 | |
| Supervised Agricultural Experience **can be enrolled multiple times for credit | .5 | |
| Environmental Science Career Pathway Courses | Credits Earned at KHS | College Credits Earned |
| Environmental Science and Aquaculture 2 | 1 | |
| Introduction to Environmental Science ECE* | 1.5 | 3 (UCONN) |
| Ecology of Fish and Wildlife* | 1.5 | |
| Biotechnology ECE* | 1.5 | 3 (UCONN) |
| PGR 1.8 – Job Shadow in Environmental Science | PGR | |
| Other Recommended Courses | Credits Earned at KHS | College Credits Earned |
| Aquaculture and Aquaponics | .5 | |
| Honors or AP Level Chemistry | 1 | |
| Honors or AP Level Biology | 1 | |
| Projects in Ag Mechanics | .5 | |
| Sustainable Food Production | .5 | |
| Construction Technology & Engineering | .5 | |

Instructor: Courtney Cardinal

This Career Pathway could lead to one of the following careers: Wildlife Biologist, Environmental Engineer, Forester, Natural Resource Manager, Park Ranger, Naturalist, Conservation Officer, Soil or Plant Scientist, Oceanographer, Ecologist, Environmental Policy and Planning, Renewable Energy and others. (Rev'd 2/23)

Career Pathway: PLANT SCIENCE
Career Cluster: AGRICULTURAL EDUCATION

To complete the **Plant Science Career Pathway**, students must earn credit in Agricultural Education 1, Plant Science 2, one 1.5 credit Plant Science Pathway Course*, 1 credit in Supervised Ag Experience**, and a Job Shadow in Plant Science.

To complete the **Plant Science Advanced Career Pathway**, students must complete the additional 1.5 credit Plant Science Pathway Course* and earn a total of 1.5 credits in Supervised Ag Experience**. Advanced Pathway Completer status can also be awarded to students for excellent AFNR career skill development in an immersion SAE at the Career Pathway teacher's discretion.

| Required for all Agricultural Education Pathways | Credits Earned at KHS | College Credits Earned |
|---|-----------------------|------------------------|
| Agricultural Education 1 | 1 | |
| Supervised Agricultural Experience **can be enrolled multiple times for credit | .5 | |
| Plant Science Career Pathway Courses | Credits Earned at KHS | College Credits Earned |
| Plant Science 2 | 1 | 3 (UCONN) |
| Floriculture ECE* | 1.5 | 4 (UCONN) |
| Nursery & Landscape ECE* | 1.5 | 3 (UCONN) |
| Biotechnology ECE* | 1.5 | 3 (UCONN) |
| PGR 1.8 – Job Shadow in Plant Science | PGR | |
| Other Recommended Courses | Credits Earned at KHS | College Credits Earned |
| Projects in Plant Science | .5 | |
| Aquaculture and Aquaponics | .5 | |
| AP Environmental Science | 1.5 | 3 (UCONN) |
| Honors or AP Chemistry and Biology | 1 | |
| Business Management | 1 | 3 (QVCC) |
| Entrepreneurship & Marketing | .5 | |
| Construction Technology & Engineering | .5 | |

Instructor: Bethany Knowlton

This Career Pathway could lead to one of the following careers: Floral Designer, Landscape Designer, Turf Grass Manager, Golf Course Superintendent, Sports Field Manager, Landscape Architect, Agricultural Education Teacher, Florist, Botanist, Entomologist, Geneticist, Christmas Tree Farmer, Greenhouse Manager, Vegetable Gardener, Sustainable Agriculturist, Soil Scientist, and others. (Rev'd 2/23)

Arts and Communication Career Cluster

Broadcast Television Career Pathway

Film Production Career Pathway

Fine Arts Career Pathway

Graphic Design Career Pathway

Journalism Career Pathway

Performing Arts – Instrumental Music Career Pathway

Performing Arts - Theatre Arts Career Pathway

Performing Arts – Vocal Music Career Pathway

Photography Career Pathway

Career Pathway: BROADCAST TELEVISION
Career Cluster: ARTS & COMMUNICATION

To complete the **Broadcast Television Career Pathway**, students must complete the required courses within Section 1 and earn a minimum of 1.5 credits within Section 2. **(4.5 credits)**
 To complete this **Advanced Pathway** students must complete the required courses within section 1 and earn a minimum of 4 credits within Section 2. **(7 credits)**

| Section 1 – Required Courses | Credits Earned at KHS | College Credits Earned |
|--|-----------------------|------------------------|
| Introduction to Video Technology | .5 | |
| KHS Productions | .5 | |
| Broadcast Journalism | 1 | |
| Business Communication | .5 | 3 (ECSU) |
| Contemporary Issues | .5 | |
| PGR 1.8 – Job Shadow in Broadcast Television | PGR | |
| Section 2 – Additional Courses | Credits Earned at KHS | College Credits Earned |
| Broadcast Journalism 2 | 1 | |
| Digital Photography 1 | .5 | |
| Digital Photography 2 | .5 | |
| Graphic Design 1 | .5 | |
| Advanced Video & Effects Editing | .5 | |
| Creative Writing | .5 | |
| Journalism | 1 | |
| French 1 | 1 | |
| Spanish 1 | 1 | |
| Introduction to Data Science | .5 | |
| App Creators | .5 | |

Instructor: Dan Durand

This Career Pathway could lead to one of the following careers: Assistant Director, Associate Producer, Audio Engineer, Camera Operator, Computer Graphics Operator, Director, Editor, Engineer, Floor Director, Lighting Director, News Anchor, News Reporter, News Producer, Pod Cast Producer, Production Assistant, Publicity & Promotions, Research, Script Writer, and Technical Director.

(Rev'd 1/23)

Career Pathway: FILM PRODUCTION
Career Cluster: ARTS & COMMUNICATION

To complete the **Film Production Career Pathway**, students must complete the required courses within Section 1 and earn a minimum of 1.5 credits within Section 2. **(4.5 credits)**

To complete this **Advanced Pathway** students must complete the required courses within Section 1 and earn a minimum of 4 credits within Section 2. **(7 credits)**

| Section 1 – Required Courses | Credits Earned at KHS | College Credits Earned |
|---|-----------------------|------------------------|
| Introduction to Video Technology | .5 | |
| Advanced Video & Effects Editing | .5 | |
| Film Production | 1 | |
| Digital Photography 1 | .5 | |
| Graphic Design 1 | .5 | |
| PGR 1.8 – Job Shadow in Film Production | PGR | |
| Section 2 – Additional Courses | Credits Earned at KHS | College Credits Earned |
| Music Technology 1 | .5 | |
| Music Technology 2 | .5 | |
| Sociology | .5 | |
| Psychology | .5 | |
| Contemporary Issues | .5 | |
| Creative Writing | .5 | |
| Graphic Design 2 | .5 | |
| Digital Photography 2 | .5 | |
| Business Communication | .5 | 3 (ECSU) |

Instructor: Dan Durand

This Career Pathway could lead to one of the following careers: Assistant Director, Associate Producer, Audio Engineer, Camera Operator, Computer Graphics Operator, Director, Editor, Engineer, Floor Director, Lighting Director, News Anchor, News Reporter, News Producer, Production Assistant, Publicity & Promotions, Research, Script Writer, and Technical Director.
 (Rev'd 1/23)

Career Pathway: FINE ARTS
Career Cluster: ARTS & COMMUNICATION

To complete the **Fine Arts Career Pathway**, students must complete the required courses within Section 1 and complete a minimum of 1 course within Section 2.

To complete this **Advanced Pathway**, students must complete the required courses within Section 1 and complete a minimum of 3 courses within Section 2.

| Section 1 – Required Courses | Credits Earned at KHS | College Credits Earned |
|---------------------------------------|------------------------------|-------------------------------|
| Art Exploration | .5 | |
| Sculpture 1 | .5 | |
| Drawing 1 | .5 | |
| Painting 1 | .5 | |
| Graphic Design 1 | .5 | |
| PGR 1.8 – Job Shadow in Fine Arts | PGR | |
| Section 2 – Additional Courses | Credits Earned at KHS | College Credits Earned |
| Graphic Design 2 | .5 | |
| Digital Photography 1 | .5 | |
| Digital Photography 2 | .5 | |
| Sculpture 2 | .5 | |
| Digital Imaging | .5 | |
| Painting 2 | .5 | |
| Entrepreneurship | .5 | |
| Business Communication | .5 | 3 (ECSU) |

Instructor: Beth Tippet

This Career Pathway could lead to one of the following careers: Art Educator, Art Historian, Portrait Artist, Museum Docent/ Curator, Art Therapist, Art & Culture Program Developer/ Director, Billboard Artist, Digital Imager, Exhibiting Artist, Gallery Curator, Muralist, Printmaker, Scenic Artist, Textile Artist, Sculptor, Set Designer, and Animal Portrait Artist.
 (Rev'd 1/23)

Career Pathway: GRAPHIC DESIGN
Career Cluster: ARTS & COMMUNICATION

To complete the **Graphics Design Career Pathway**, students must complete the required courses within Section 1 and complete a minimum of 2 courses within Section 2.

To complete this **Advanced Pathway**, students must complete the required courses within Section 1 and complete a minimum of 3 courses within Section 2.

| Section 1 – Required Courses | Credits Earned at KHS | College Credits Earned |
|--|-----------------------|------------------------|
| Graphic Design 1 | .5 | |
| Graphic Design 2 | .5 | |
| Digital Imaging | .5 | |
| PGR 1.8 – Job Shadow in Graphic Design | PGR | |
| Section 2 – Additional Courses | Credits Earned at KHS | College Credits Earned |
| Art Exploration | .5 | |
| Digital Marketing 1 | 1 | |
| Digital Marketing 2 | 1 | |
| Drawing 1 | .5 | |
| Drawing 2 | .5 | |
| Digital Photography 1 | .5 | |
| Digital Photography 2 | .5 | |
| Marketing | 1 | |
| App Creators | .5 | |
| Introduction to Data Science | .5 | |
| Introduction to Programming | 1 | |
| Entrepreneurship | .5 | |
| Business Communication | .5 | 3 (ECSU) |

Instructor: Jamie Carver

This Career Pathway could lead to one of the following careers: Advertising Art Director, Animator, Creative Director, Graphic Designer, Illustrator, Printmaker, Production Designer, Theatre/ Television/ Film, Multimedia/Interactive Designer, Web Designer, Logo Designer, Brand Identity Designer, Flash Designer, Creative/Art Director, Photo Editing/Photoshop Artist, Layout Artist, Exhibition designer, Fine Artist, Interior and Spatial Designer, Landscape Architect, Medical Illustrator, Multimedia Specialist, Photographer, Stylist, UX Designer, Desktop Publisher, Drafter, Industrial Designer, Technical Writers, Web Developer, Toy Designer, 3D Design, Special Effects, Promotional Designer, Marketing Consultant, Freelance Designer, Video Game Design, and Furniture Design. (Rev'd 1/23)

Career Pathway: JOURNALISM
Career Cluster: ARTS & COMMUNICATION

To complete the **Journalism Career Pathway**, students must complete the required courses within Section 1 and earn a minimum of 2 credits within Section 2. **(4 credits)**

To complete this **Advanced Pathway** students must complete the required courses within Section 1 and earn a minimum of 3 credits within Section 2. **(5 credits)**

| Section 1 – Required Courses | Credits Earned at KHS | College Credits Earned |
|------------------------------------|-----------------------|------------------------|
| Journalism 1 | 1 | |
| Journalism 2 | 1 | |
| PGR 1.8 – Job Shadow in Journalism | PGR | |
| Section 2 – Additional Courses | Credits Earned at KHS | College Credits Earned |
| Creative Writing | .5 | |
| Independent Study in Journalism | 1 | |
| Broadcast Journalism | 1 | |
| Marketing | 1 | |
| Digital Marketing | 1 | |
| Digital Photography 1 | .5 | |
| Digital Photography 2 | .5 | |
| Introduction to Video Technology | .5 | |
| Graphic Design 1 | .5 | |
| Graphic Design 2 | .5 | |
| Sport Management | .5 | |
| Contemporary Issues | .5 | |
| Art Exploration | .5 | |
| Digital Imaging | .5 | |
| Business Communication | .5 | 3 (ECSU) |

Instructor: Michael Raheb

This Career Pathway could lead to one of the following careers: Author, Brand Developer, Business Writer, Court Reporter Electronic Media Specialist, Free Lance Journalist, Magazine Contributor, Marketing, News Anchor, News Producer, News Reporter, News Foreign Correspondent, Social Media Content Developer, Podcast Developer, Policy Developer, Publisher, Production Assistant Researcher, Teacher, Script Writer, Public Relations, and Technical Writer. (Rev'd 1/23)

Career Pathway: PERFORMING ARTS MUSIC - INSTRUMENTAL

Career Cluster: ARTS & COMMUNICATION

To complete the **Instrumental Music Career Pathway**, students must complete 4 courses within Section 1 and earn a minimum of 1.5 credits within Section 2. **(5.5 credits)**

To complete this **Advanced Pathway**, students must complete 4 courses within Section 1 and earn a minimum of 5 credits within Section 2 OR complete AP/ECE Music Theory. **(9 credits OR 5.5 credits)**

| Section 1 – Required Courses | Credits Earned at KHS | College Credits Earned |
|--|-----------------------|------------------------|
| Symphonic Winds 1 / Percussion Ensemble 1 | 1 | |
| Symphonic Winds 2 / Percussion Ensemble 2 | 1 | |
| Symphonic Winds 3 / Percussion Ensemble 3 | 1 | |
| Symphonic Winds 4 / Percussion Ensemble 4 | 1 | |
| PGR 1.8 – Job Shadow in Instrumental Music | PGR | |
| Section 2 – Additional Courses | Credits Earned at KHS | College Credits Earned |
| Beginner Guitar | .5 | |
| Intermediate/ Advanced Guitar | .5 | |
| Introduction to Music Theory | .5 | |
| Marching Band | .5 | |
| Music Technology 1 | .5 | |
| Music Technology 2 | .5 | |
| Chamber Choir | .5 | |
| Concert Choir | 1 | |
| AP/ECE Music Theory | 1.5 | 3 (UCONN) |
| App Creators | .5 | |

Instructor: Jeff Ethier

This Career Pathway could lead to one of the following careers: Professional Vocalist, Professional Instrumentalist, PreK-8 Music Educator, 9-12 Music Educator, Collegiate Music Educator, Music Therapist, Music Journalist/Writer, Lobbyist, Music Historian/Theorist, Composer/Arranger, copyist/Score Preparer, Music/Arts Management, Music/Instrument Retail, Song Writer, Recording Engineer, Conductor, Private Music Instructor, and Music Librarian. (Rev'd 1/23)

Career Pathway: PERFORMING ARTS - THEATRE
Career Cluster: ARTS & COMMUNICATION

To complete the **Performing Arts – Theatre Career Pathway**, students must complete 1.5 credits within Section 1 and earn a minimum of 2.5 credits within Section 2.

To complete this **Advanced Pathway**, students must provide evidence of participation in 2 or more theatrical performances in venues other than KHS.

| Section 1 – Required Courses | Credits Earned at KHS | College Credits Earned |
|---|---|------------------------|
| Participate in School Drama Production for 3 years. | .5 credits per performance toward Pathway, but NOT toward Graduation | |
| Participate in a major public speaking event (Audience of greater than 150) | | |
| PGR 1.8 – Job Shadow in Theater Arts | PRG | |
| Section 2 – Additional Courses | Credits Earned at KHS | College Credits Earned |
| Journalism | 1 | |
| Creative Writing | 1 | |
| Symphonic Winds | 1 | |
| CP Percussion Ensemble | 1 | |
| CP Concert Choir | 1 | |
| Construction Applications | 1 | |
| Child Development 1 | .5 | |
| Film Production | .5 | |
| Digital Photography | .5 | |
| Art Exploration | .5 | |
| Drawing 1 | .5 | |
| Documentation of participation as cast or crew in community theater event | Counts as .5 credit toward pathway PER PERFORMANCE, but NOT toward graduation (UP TO 1.5 CREDITS) | |

Instructor: Jennifer Nadeau

This Career Pathway could lead to one of the following careers: Actor, Actress, Artistic Director, Casting Director, Producer, Director, Mime, Performance Artist, Puppeteer, Dramaturge, Storyteller, Theatre Therapist, Instructor, Drama Teacher, Script Writer, Production Assistant, Human Resource Specialist, Public Relations, Social Worker, Teacher, Child Life Specialist and Lawyer. (Rev'd 1/23)

Career Pathway: PERFORMING ARTS MUSIC - VOCAL

Career Cluster: ARTS & COMMUNICATION

To complete the **Vocal Music Career Pathway**, students must complete the required courses within Section 1 and earn a minimum of 1.5 credits within Section 2. **(5.5 credits)**

To complete this **Advanced Pathway**, students must complete the required courses within Section 1 and earn a minimum of 5 credits within Section 2 or complete AP/ECE Music Theory.
(9 credits OR 5.5 credits)

| Section 1 – Required Courses | Credits Earned at KHS | College Credits Earned |
|-------------------------------------|-----------------------|------------------------|
| Concert Choir 1 | 1 | |
| Concert Choir 2 | 1 | |
| Concert Choir 3 | 1 | |
| Concert Choir 4 | 1 | |
| PGR 1.8 – Job Shadow in Vocal Music | PGR | |
| Section 2 – Additional Courses | Credits Earned at KHS | College Credits Earned |
| Chamber Choir | .5 | |
| Beginning Guitar | .5 | |
| Intermediate/Advanced Guitar | .5 | |
| Introduction to Music Theory | .5 | |
| Marching Band | .5 | |
| Music Technology 1 | .5 | |
| Music Technology 2 | .5 | |
| Symphonic Winds | 1 | |
| Percussion Ensemble | 1 | |
| AP/ECE Music Theory | 1.5 | 3 (UCONN) |
| App Creators | .5 | |

Instructor: Jason Largent

This Career Pathway could lead to one of the following careers: Professional Vocalist, Professional Instrumentalist, PreK-8 Music Educator, 9-12 Music Educator, Collegiate Music Educator, Music Therapist, Music Journalist/Writer, Lobbyist, Music Historian/Theorist, Composer/Arranger, Copyist/Score Preparer, Music/Arts Management, Music/Instrument Retail, Song Writer, Recording Engineer, Conductor, Private Music Instructor, and Music Librarian.
(Rev'd 1/23)

Career Pathway: PHOTOGRAPHY
Career Cluster: ARTS & COMMUNICATION

To complete the **Photography Career Pathway**, students must complete all required courses within Section 1 and complete a minimum of 2 courses within Section 2.

To complete this **Advanced Pathway**, students must complete the required courses within Section 1 and complete a minimum of 3 courses within Section 2.

| Section 1 – Required Courses | Credits Earned at KHS | College Credits Earned |
|-------------------------------------|-----------------------|------------------------|
| Digital Photography 1 | .5 | |
| Digital Photography 2 | .5 | |
| Digital Photography 3 | .5 | |
| Digital Imaging | .5 | |
| PGR 1.8 – Job Shadow in Photography | PGR | |
| Section 2 – Additional Courses | Credits Earned at KHS | College Credits Earned |
| Graphic Design 1 | .5 | |
| Graphic Design 2 | .5 | |
| Journalism 1 | 1 | |
| Art Exploration | .5 | |
| Introduction to Video Technology | .5 | |
| Business Communication | .5 | 3 (ECSU) |
| Entrepreneurship | .5 | |

Instructor: Danica Temple

This Career Pathway could lead to one of the following careers: Action Photographer, Advertising Professional, Aerial Photographer, Animal Photographer, Archival/Historian/ Museum Documentation, Automotive Photographer, Newborn/Infant/Child Photographer, Catalog Photographer, Cruise Ship Photographer, Amusement Park, Environmental Photographer, Food/Cuisine Photography, Greeting Cards, Interior Design/Set Photography, Magazines, Portrait Photography, Travel Photography and Real Estate Photography.

(Rev'd 1/23)

Business and Finance Career Cluster

Accounting Career Pathway
Business Management Career Pathway
Hospitality Career Pathway
Marketing Career Pathway
Personal Finance Career Pathway

Career Pathway: ACCOUNTING
Career Cluster: BUSINESS & FINANCE

To complete the **Accounting Career Pathway**, students must complete the required courses within Section 1 and earn a minimum of 1.5 credits within Section 2. **(4 credits)**

To complete this **Advanced Pathway**, students must earn an additional 2 credits within Section 3. (6 credits)

| Section 1 – Required Courses | Credits Earned at KHS | College Credits Earned |
|------------------------------------|-----------------------|------------------------|
| Accounting 1 | 1 | |
| Accounting 2 | 1 | 3 (QVCC) |
| Business Communication | .5 | 3 (ECSU) |
| PGR 1.8 – Job Shadow in Accounting | PGR | |
| Section 2 – Additional Courses | Credits Earned at KHS | College Credits Earned |
| Business Management | 1 | 3 (QVCC) |
| Sport Management | .5 | |
| Accounting 3 | 1 | |
| International Business | .5 | |
| Personal Finance | .5 | |
| Economics | .5 | |
| Business Law | .5 | |
| Entrepreneurship | .5 | |
| Section 3 – Advanced Courses | Credits Earned at KHS | College Credits Earned |
| Trigonometry | 1 | |
| Honors Calculus | 1 | |
| AP Calculus AB | 1.5 | |
| AP Calculus BC | 1.5 | |
| Honors Physics | 1 | |

Instructor: Donna Guillot

This Career Pathway could lead to one of the following careers: Certified Public Accountant, Bookkeeper, Collections Executive, Investment Executive, Tax Preparer, Actuary, Budget Analysis, Controller, Merger/Acquisitions Manager, Billing Supervisor, Forensic Accountant, Financial Advisor, Auditor, Chief Financial Officer, Finance Director, Payroll Clerk, Accounts Receivable/Payable Clerk, and Loan Officer. (Rev'd 1/23)

Career Pathway: BUSINESS MANAGEMENT
Career Cluster: BUSINESS & FINANCE

To complete the **Business Management Career Pathway**, students must complete the required courses within Section 1 and earn a minimum of 2.5 credits within Section 2. **(4 credits)**

To complete this **Advanced Pathway**, students must earn a minimum of 2 credits within Section 3. **(6 credits)**

| Section 1 – Required Courses | Credits Earned at KHS | College Credits Earned |
|---|-----------------------|------------------------|
| Business Management | 1 | 3 (QVCC) |
| Business Communication | .5 | 3 (ECSU) |
| PGR 1.8 – Job Shadow in Business Management | PGR | |
| Section 2 – Additional Courses | Credits Earned at KHS | College Credits Earned |
| Introduction to Business | .5 | |
| Entrepreneurship | .5 | |
| Marketing | 1 | |
| Sport Management | .5 | |
| Personal Finance | .5 | |
| International Business | .5 | |
| Business Law | .5 | |
| Accounting 1 | 1 | |
| Economics | .5 | |
| Construction Management | .5 | |
| Section 3 – Advanced Courses | Credits Earned at KHS | College Credits Earned |
| Digital Marketing 2 | 1 | |
| Trigonometry | 1 | |
| Honors Calculus | 1 | |
| AP Calculus AB | 1.5 | |
| AP United States History | 1.5 | |

Instructor: Donna Guillot

This Career Pathway could lead to one of the following careers: Operations Manager, Entrepreneur, Government Management, Management Analyst, Purchasing Manager, Administrative Service Manager, Development Manager, Facilities Manager, Hospital Management, Manufacturing Management, Public Relations Management, Meeting & Convention Planner, Chief Executive Officer, General Manager, Human Resources Manager, Hotel Management, and Sports & Entertainment. (Rev'd 1/23)

Career Pathway: HOSPITALITY
Career Cluster: BUSINESS & FINANCE

To complete the **Hospitality Career Pathway**, students must complete the required courses within Section 1 and earn a minimum of 2.5 credits within Section 2. **(4 credits)**
 To complete this **Advanced Pathway**, students must earn an additional 2 credits within Section 3. **(6 credits)**

| Section 1 – Required Courses | Credits Earned at KHS | College Credits Earned |
|--|-----------------------|------------------------|
| Hospitality | .5 | |
| Business Communication | .5 | 3 (ECSU) |
| Foods I: Foods & Nutrition | .5 | |
| PGR 1.8 – Job Shadow in Hospitality | PGR | |
| Section 2 – Additional Courses | Credits Earned at KHS | College Credits Earned |
| Business Law | .5 | |
| Business Management | 1 | 3 (QVCC) |
| Entrepreneurship | .5 | |
| Foods II: National & International Foods | .5 | |
| International Business | .5 | |
| Introduction to Business | .5 | |
| Marketing | 1 | |
| World Language 2 | 1 | |
| Section 3 – Advanced Courses | Credits Earned at KHS | College Credits Earned |
| Broadcast Journalism | 1 | |
| Digital Marketing 2 | 1 | |
| Journalism 2 | 1 | |
| Trigonometry | 1 | |
| World Language 3 | 1-1.5 | |

Instructor: Audrey Jones

This Career Pathway could lead to one of the following careers: Hotel Management, Restaurant Service, Event Planning, Caterer, Transportation Service, Wedding Consultant, Convention Center Management, and Travel Agent. (Rev'd 1/23)

Career Pathway: MARKETING
Career Cluster: BUSINESS & FINANCE

To complete the **Marketing Career Pathway**, students must complete the required courses within Section 1 and a minimum of 2 credits within Section 2. **(4 credits)**

To complete this **Advanced Pathway**, students must earn an additional 2 credits within Section 3. **(6 credits)**

| Section 1 – Required Courses | Credits Earned at KHS | College Credits Earned |
|-----------------------------------|-----------------------|------------------------|
| Marketing | 1 | |
| Entrepreneurship | .5 | |
| Business Communication | .5 | 3 (ECSU) |
| PGR 1.8 – Job Shadow in Marketing | PGR | |
| Section 2 – Additional Courses | Credits Earned at KHS | College Credits Earned |
| Business Management | 1 | 3 (QVCC) |
| Digital Marketing 1 | 1 | |
| Yearbook | 1 | |
| Graphic Design 1 | .5 | |
| Introduction to Video Technology | .5 | |
| Sociology | .5 | |
| Psychology | .5 | |
| International Business | .5 | |
| Sports Management | .5 | |
| Section 3 – Advanced Courses | Credits Earned at KHS | College Credits Earned |
| Digital Marketing 2 | 1 | |
| Accounting 2 | 1 | 3 (QVCC) |
| Honors World Language 3 | 1 | |
| Journalism 2 | 1 | |
| Honors English 4 | 1 | |
| AP English 4 | 1.5 | |
| Honors Calculus | 1 | |
| AP Calculus AB | 1.5 | |

Instructor: Gena Torre

This Career Pathway could lead to one of the following careers: E-Commerce Manager, Entrepreneur, Customer Service Clerk, Event Manager, International Merchandising, Market Researcher, Market Manager, Media Coordinator, Merchandising, Project Manager, Public Relations Specialist, Public Relations Writer, Research & Development, Sales Engineer, Sales Representative, Store Manager, and Salesperson. (Rev'd 1/23)

Career Pathway: PERSONAL FINANCE
Career Custer: BUSINESS & FINANCE

To complete the **Personal Finance Career Pathway**, students must complete the required courses within Section 1 and earn a minimum of 2 credits within Section 2. **(4 credits)**

To complete this **Advanced Pathway**, students must earn an additional 2 credits within Section 3. **(6 credits)**

| Section 1 – Required Courses | Credits Earned at KHS | College Credits Earned |
|--|-----------------------|------------------------|
| Personal Finance | .5 | |
| Success 101 | .5 | |
| Accounting 1 | 1 | |
| PGR 1.8 – Job Shadow in Personal Finance | PGR | |
| Section 2 – Additional Courses | Credits Earned at KHS | College Credits Earned |
| Business Management | 1 | 3 (QVCC) |
| Accounting 2 | 1 | 3 (QVCC) |
| Introduction to Business | .5 | |
| Business Communication | .5 | 3 (ECSU) |
| Business Law | .5 | |
| Entrepreneurship | .5 | |
| Economics | .5 | |
| Section 3 – Advanced Courses | Credits Earned at KHS | College Credits Earned |
| Trigonometry | 1 | |
| Honors Calculus | 1 | |
| AP Calculus AB | 1.5 | |
| AP Calculus BC | 1.5 | |
| Honors American Citizenship | 1 | |

Instructor: Christina Small

This Career Pathway could lead to one of the following careers: Real Estate Broker, Bookkeeper, Collections Executive, Investment Executive, Tax Preparer, Actuary, Budget Analyst, Financial Analyst, Sales Agent, Securities/Commodities Agent, Auditor, Insurance Underwriter, Finance Director, and Loan Officer. (Rev'd 1/23)

Construction & Industrial Design Cluster

Architecture Career Pathway

Construction Career Pathway

Engineering and Industrial Design Career Pathway

Manufacturing Career Pathway

Robotics Career Pathway

Career Pathway: ARCHITECTURE

Career Cluster: CONSTRUCTION AND INDUSTRIAL DESIGN

To complete the **Architecture Career Pathway**, students must complete the required courses within Section 1 and earn a minimum of 1.5 credits within Section 2.

To complete this **Advanced Pathway**, students must complete the required courses within Section 1 and earn a minimum of 3 credits within Section 2.

| Section 1 – Required Courses | Credits Earned at KHS | College Credits Earned |
|---|-----------------------|------------------------|
| Architectural Engineering 1 | .5 | |
| Architectural Engineering 2 | .5 | |
| Principles of Engineering | .5 | |
| Drawing 1 | .5 | |
| PRR 1.8 – Job Shadow in Architecture | PGR | |
| Section 2 – Additional Courses | Credits Earned at KHS | College Credits Earned |
| CP Physics | 1 | |
| Marketing | 1 | |
| Business Law | .5 | |
| Geometry | 1 | |
| Advanced Construction Technology | .5 | |
| Business Communication | .5 | 3 (ECSU) |
| Fundamentals of Construction Technology | .5 | |
| Graphic Design 1 | .5 | |
| Business Management | 1 | |
| Mechanical Drafting | .5 | |
| Entrepreneurship | .5 | |
| Construction Applications | 1 | |

Instructor: Bonnie Beland

This Career Pathway could lead to one of the following careers: Architect, Framer/Builder, Kitchen & Bath Designer, Urban Planner, Estimator, Project Developer, landscape Architect, Surveyor, Estate Manager, Production Designer – Theater, Town Planner, Construction Manager, and Historic Building Inspector/Preservationist. (Rev'd 1/23)

Career Pathway: CONSTRUCTION TECHNOLOGY
Career Cluster: CONSTRUCTION AND INDUSTRIAL DESIGN

To complete the **Construction Technology Career Pathway**, students must complete the required courses within Section 1 and earn a minimum of 2 credits within Section 2. **(4.5 credits)**

To complete this **Advanced Pathway**, students must complete the required courses within Section 1 and earn a minimum of 3 credits within Section 2. **(5.5 credits)**

| Section 1 – Required Courses | Credits Earned at KHS | College Credits Earned |
|--|-----------------------|------------------------|
| Fundamentals of Construction Technology | .5 | |
| Construction Applications | 1 | |
| Construction Management | .5 | |
| Mechanical Drafting or Architectural Engineering 1 | .5 | |
| PGR 1.8 – Job Shadow in Construction Technology | PGR | |
| Section 2 – Additional Courses | Credits Earned at KHS | College Credits Earned |
| Principles of Engineering | .5 | |
| Marketing | 1 | |
| Business Law | .5 | |
| Business Communication | .5 | 3 (ECSU) |
| Entrepreneurship | .5 | |
| Essentials of Geometry | 1 | |
| Geometry CP | 1 | |
| Physics w/ Lab | 1 | |
| Advanced Technology – Construction | .5 | |
| Architectural Engineering 2 | .5 | |
| Robotics 1 | .5 | |

Instructor: James Hutson

This Career Pathway could lead to one of the following careers: Architect, Framers/Builder, Contractor, Civil Engineer, Structural Engineer, Masonry/Concrete Trades, Plumber, Land Developer, Surveyor, Interior Design, Estimator, Heavy Equipment Operator, Building Inspector, Construction Site Manager/Foreman, Kitchen & Bath Designer, HVAC Technician, Drywall/Sheetrock Installer, and Entrepreneur/Small Business Owner. (Rev'd 1/23)

Career Pathway: ENGINEERING & INDUSTRIAL DESIGN**Career Cluster: CONSTRUCTION & INDUSTRIAL DESIGN**

To complete the **Engineering & Industrial Design Career Pathway**, students must complete the required courses within Section 1 and earn a minimum of 2 credits within Section 2. **(5 credits)**
To complete this **Advanced Pathway**, students must complete the required courses within Section 1 and earn a minimum of 3 credits within Section 2. **(6 Credits)**

| Section 1 – Required Courses | Credits Earned at KHS | College Credits Earned |
|---|------------------------------|-------------------------------|
| Mechanical Drafting | .5 | |
| Principles of Engineering | .5 | |
| Mechanical Engineering 1 | .5 | |
| Advanced Engineering Design and Development | .5 | |
| Geometry CP | 1 | |
| PGR 1.8 – Job Shadow in Engineering and Industrial Design | PGR | |
| Section 2 – Additional Courses | Credits Earned at KHS | College Credits Earned |
| Advanced Technology – Robotics (Honors) | 1 | |
| Marketing | 1 | |
| Geometry/Honors Pre-Calculus | 1.5 | |
| Business Management | 1 | |
| Business Communication | .5 | 3 (ECSU) |
| Entrepreneurship | .5 | |
| Introduction to Programming | 1 | |
| Graphic Design 1 | .5 | |
| App Creators | .5 | |
| Principles of Manufacturing | .5 | 1 (QVCC) |
| Advanced Principles of Manufacturing | .5 | 3 (QVCC) |
| Mechanical Engineering 2 | .5 | |
| Robotics 1 | .5 | |

Instructor: TBD

This Career Pathway could lead to one of the following careers: Civil Engineer, Construction Site Management, CAD Designer/Specialist, Mechanical Engineer, Architect, Machinist, Production Specialist, CNC Operator, Industrial Welder, Industrial Designer, Metal Fabricator, and Industrial Database Management. (Rev'd 1/23)

Career Pathway: MANUFACTURING

Career Cluster: CONSTRUCTION AND INDUSTRIAL DESIGN

To complete the **Manufacturing Career Pathway**, students must complete the required course within Section 1 and earn a minimum of 2 credits within Section 2. **(5 credits)**

To complete this **Advanced Pathway**, students must complete the required courses within Section 1 and earn a minimum of 3 credits within Section 2. **(6 credits)**

| Section 1 – Required Courses | Credits Earned at KHS | College Credits Earned |
|---|-----------------------|------------------------|
| Mechanical Drafting | .5 | |
| Principles of Engineering | .5 | |
| Principles of Manufacturing | .5 | 1 (QVCC) |
| Advanced Principles of Manufacturing | 1 | 3 (QVCC) |
| Essentials of Geometry (or higher-level course) | 1 | |
| PGR 1.8 – Job Shadow in Manufacturing | PGR | |
| Section 2 – Additional Courses | Credits Earned at KHS | College Credits Earned |
| Mechanical Engineering 1 | .5 | |
| Marketing | 1 | |
| Business Management | 1 | |
| Business Communication | .5 | 3 (ECSU) |
| Entrepreneurship | .5 | |
| Introduction to Programming | 1 | |
| Graphic Design 1 | .5 | |
| App Creators | .5 | |
| Mechanical Engineering 2 | .5 | |
| Advanced Engineering Design and Development | .5 | |
| Robotics 1 | .5 | |

Instructor: Bonnie Beland

This Career Pathway could lead to one of the following careers: Product Development Engineer, Product Researcher, Product Tool Designer, Production Engineer, Production Supervisor, Project Engineer, Quality Control/Assurance, Research/Development, Machinist Safety & Environmental Supervisor, Senior Engineering Analyst, Supply Chain Engineer, Systems Designer, Technical Sales, and Tool Designer. (Rev'd 1/23)

Career Pathway: ROBOTICS

Career Cluster: CONSTRUCTION AND INDUSTRIAL DESIGN

To complete the **Industrial Design Career Pathway**, students must complete the required courses within Section 1 and earn a minimum of 2 credits within Section 2. **(4.5 credits)**

To complete this **Advanced Pathway**, students must complete the required courses within Section 1 and earn a minimum of 3.5 credits within Section 2. **(6 credits)**

| Section 1 – Required Courses | Credits Earned at KHS | College Credits Earned |
|---|-----------------------|------------------------|
| Principles of Engineering | .5 | |
| Robotics 1 | .5 | |
| Robotics 2 | .5 | |
| Robotics 3 | 1 | |
| PGR 1.8 – Job Shadow in Robotics | PGR | |
| Section 2 – Additional Courses | Credits Earned at KHS | College Credits Earned |
| Mechanical Drafting | .5 | |
| Mechanical Engineering 1 | .5 | |
| Mechanical Engineering 2 | .5 | |
| Advanced Technology – Robotics (Honors) | 1 | |
| Marketing | 1 | |
| CP Geometry | 1 | |
| Business Management | 1 | |
| Business Communication | .5 | 3 (ECSU) |
| Entrepreneurship | .5 | |
| Graphic Design 1 | .5 | |
| Intro to Principles of Manufacturing | .5 | 1 (QVCC) |
| Advanced Principles of Manufacturing | .5 | 3 (QVCC) |
| Physics | 1 | |
| HN Calculus | 1 | |
| CP Trigonometry | 1 | |

Instructor: Dr. Robert Polselli

This Career Pathway could lead to one of the following careers: CAD Designer/Specialist, Mechanical/Electrical Engineer, Architect, Machinist, Production Specialist, Robotics, Automation Programmer, Logic Control Programmer, CNC Operator, Industrial Welder, Industrial Designer, Metal Fabricator, and Industrial Database Management. (Rev'd 1/23)

Education Career Cluster

World Language Career Pathway

Career Pathway: WORLD LANGUAGE
Career Cluster: EDUCATION

To complete the **World Languages Career Pathway**, students must complete the required courses within Section 1 and earn a minimum of 2 credits within Section 2.

To complete this **Advanced Pathway**, students must complete the required courses within Section 1 and earn a minimum of 3 credits within Section 2 including 1-1.5 from Advanced World Language.

| Section 1 – Required Courses | Credits Earned at KHS | College Credits Earned |
|--|-----------------------|--|
| World Language 2 (French, Latin, or Spanish) | 1 | |
| World Language 3 French, Latin, Spanish) | 1-1.5 | Latin 3 – 3 (UCONN) Honors Spanish 3 – 3 (ECSU) |
| PGR 1.8 – Job Shadow in a Career Field Listed | PGR | |
| Section 2 – Additional Courses | Credits Earned at KHS | College Credits Earned |
| International Business | .5 | |
| Sociology | .5 | |
| Marketing | 1 | |
| Business Communication | .5 | |
| Contemporary Issues | .5 | |
| World History | 1 | |
| Psychology | .5 | |
| Advanced World Language 4 (French, Latin, or Spanish) | 1-1.5 | Latin 4 – 3 (UCONN) Spanish 4 - 3 (ECSU) |

Instructor: TBD

This Career Pathway could lead to one of the following careers: Transportation, Hospitality, Health Care, Engineering and Design, Sales and Marketing, Communication, Education, Human Services, and Government Legislation & Administration. (Rev 1/23)

Government and Public Administration
Career Cluster

Criminal Justice Career Pathway
Global Studies Career Pathway
Legal Services Career Pathway

Career Pathway: CRIMINAL JUSTICE

Career Cluster: GOVERNMENT & PUBLIC ADMINISTRATION

To complete the **Criminal Justice Career Pathway**, students must complete the required courses within Section 1 and earn a minimum of 2 credits within Section 2. **(4 credits)**

To complete this **Advanced Pathway**, students must earn an additional 2 credits within Section 3. **(6 credits)**

| Section 1 – Required Courses | Credits Earned at KHS | College Credits Earned |
|--|-----------------------|------------------------|
| Business Law | .5 | |
| Forensics | 1 | |
| Psychology | .5 | |
| PGR 1.8 – Job Shadow in Criminal Justice | PGR | |
| Section 2 – Additional Courses | Credits Earned at KHS | College Credits Earned |
| Accounting 1 | 1 | |
| Business Communication | .5 | 3 (ECSU) |
| Contemporary Issues | .5 | |
| Economics | .5 | |
| Introduction to Programming | 1 | |
| Journalism 1 | 1 | |
| Sociology | .5 | |
| Section 3 – Advanced Courses | Credits Earned at KHS | College Credits Earned |
| Accounting 2 | 1 | 3 (QVCC) |
| AP Chemistry | 1.5 | |
| Honors Chemistry | 1 | |
| AP U.S. History | 1.5 | |
| Honors American Citizenship | 1 | |
| Honors Physics | 1 | |
| Journalism 2 | 1 | |

Instructor: Audrey Jones

This Career Pathway could lead to one of the following careers: Lawyer, Private Investigator & Detective, Police Officer, Federal Marshal, Forensics Analyst, Paralegal, Probation Officer, Corrections Officer, Victim Advocate, Court Clerk, Conservation Officer, Border Patrol, K-9 Officer, CIA Officer, Correctional Counselor, Forensic Accountant, Forensic Nurse, Forensic Pathologist, Forensic Psychologist, Crime Scene Investigator, and Security Officer. (Rev'd 1/23)

Career Pathway: GLOBAL STUDIES
Career Cluster: GOVERNMENT & PUBLIC ADMINISTRATION

To complete the **Global Studies Career Pathway**, students must complete the required courses within Section 1 and earn a minimum of 2 credits within Section 2. **(4 credits)**
 To complete this **Advanced Pathway**, students must earn an additional 2 credits within Section 3. **(6 credits)**

| Section 1 – Required Courses | Credits Earned at KHS | College Credits Earned |
|--|-----------------------|------------------------|
| International Business | .5 | |
| Business Communication | .5 | 3 (ECSU) |
| World Language 2 (French, Latin, or Spanish) | 1 | |
| PGR 1.8 – Job Shadow in Global Studies | PGR | |
| Section 2 – Additional Courses | Credits Earned at KHS | College Credits Earned |
| Business Law | .5 | |
| Contemporary Issues | .5 | |
| Economics | .5 | |
| Marketing | 1 | |
| Psychology | .5 | |
| Sociology | .5 | |
| Section 3 – Advanced Courses | Credits Earned at KHS | College Credits Earned |
| Accounting 3 | 1 | 3 (QVCC) |
| AP English 3 | 1.5 | 3 (UCONN) |
| AP English 4 | 1.5 | |
| AP U.S. History | 1.5 | |
| Business Management | 1 | 3 (QVCC) |
| Honors World Language 3 | 1-1.5 | |

Instructor: Audrey Jones

This Career Pathway could lead to one of the following careers: Air Passenger Company, International Consulting Firm, Non-Profit Organization, Tourism Hospitality, Stockbroker, Political Science, Government Agency, Law Firm, Shipping Company, Import/Export Agent, Economist, International Relations Officer, International Banking, Multinational Corporation, and Interpreter.
 (Rev'd 1/23)

Career Pathway: LEGAL SERVICES
Career Cluster: GOVERNMENT & PUBLIC RELATIONS

To complete the **Legal Services Career Pathway**, students must complete the required courses within Section 1 and earn a minimum of 2.5 credits within Section 2. **(4 credits)**

To complete this **Advanced Pathway**, students must earn an additional 2 credits within Section 3.
(6 credits)

| Section 1 – Required Courses | Credits Earned at KHS | College Credits Earned |
|--|-----------------------|------------------------|
| Business Law | .5 | |
| Business Communication | .5 | 3 (ECSU) |
| Sociology | .5 | - |
| PGR 1.8 – Job Shadow in Legal Services | PGR | |
| Section 2 – Additional Courses | Credits Earned at KHS | College Credits Earned |
| Contemporary Issues | .5 | - |
| Economics | .5 | - |
| Forensics | 1 | |
| Honors American Citizenship | 1 | - |
| International Business | .5 | - |
| Journalism 1 | 1 | - |
| Psychology | .5 | - |
| World Language 2 | 1 | - |
| Section 3 – Advanced Courses | Credits Earned at KHS | College Credits Earned |
| AP English 3 | 1.5 | 3 (UCONN) |
| AP English 4 | 1.5 | - |
| AP U.S. History | 1.5 | - |
| Journalism 1 | 1 | - |
| World Language 3 | 1-1.5 | - |

Instructor: Audrey Jones

This Career Pathway could lead to one of the following careers: Administrative Law, Policy Developer, Court Reporter, Investigator, Legal Assistant, Mediator/Arbitrator, Elected Official, Attorney, File/Document Manager, Judge, Legal Secretary, Negotiator, Lobbyist, Case Management Specialist, Information Officer, Law Clerk, Magistrate, Paralegal, and Legal Advocate. (Rev'd 1/23)

Information Technology Career **Cluster**

Computer Programming Career Pathway
Interactive Media Career Pathway

Career Pathway: COMPUTER PROGRAMMING

Career Cluster: INFORMATION SYSTEMS

To complete the **Computer Programming Career Pathway**, students must complete the required courses within Section 1 and a minimum of 2.5 credits within Section 2. **(4 credits)**

To complete this **Advanced Pathway**, students must complete the required courses within Section 1 and earn a minimum of 4.5 credits within Section 2. **(6 credits)**

| Section 1 – Required Courses | Credits Earned at KHS | College Credits Earned |
|--|-----------------------|------------------------|
| Introduction to Programming | 1 | |
| Business Communication | .5 | 3 (ECSU) |
| PGR 1.8 - Job Shadow in Computer Programming | PGR | |
| Section 2 – Additional Courses | Credits Earned at KHS | College Credits Earned |
| App Creators | .5 | |
| Introduction to Data Science | .5 | |
| Trigonometry | 1 | |
| Honors Calculus | 1 | |
| Advanced Technology Robotics | 1 | |
| Principles of Engineering | .5 | |
| Mechanical Engineering | .5 | |
| Computer Science Leader | 1 | |
| AP Calculus AB | 1.5 | |
| AP Calculus BC | 1.5 | |
| Music Technology 1 | .5 | |
| Music Technology 2 | .5 | |

Instructor: TBD

This Career Pathway could lead to one of the following careers: Software Engineer, Computer Engineer, Software Applications Specialist, Test Engineer, Application Analyst, Programmer, Game Developer, Business Analyst, Operating System Designer, App Developer, Simulation Developer, Database Administrator, and Network Engineer. (Rev'd 1/23)

Career Pathway: INTERACTIVE MEDIA
Career Cluster: INFORMATION TECHNOLOGY

To complete the **Interactive Media Career Pathway**, students must complete the required courses within Section 1 and earn a minimum of 2.5 credits within Section 2. **(4 credits)**

To complete this **Advanced Pathway**, students must earn an additional 2 credits within Section 3.

(6 credits)

| Section 1 – Required Courses | Credits Earned at KHS | College Credits Earned |
|---|------------------------------|-------------------------------|
| Digital Marketing 1 | 1 | |
| Business Communication | .5 | 3 (ECSU) |
| PGR 1.8 – Job Shadow in Interactive Media | PGR | |
| Section 2 – Additional Courses | Credits Earned at KHS | College Credits Earned |
| Marketing | 1 | |
| Digital Marketing 2 | 1 | |
| Journalism 1 | 1 | |
| Introduction to Video Technology | .5 | |
| International Business | .5 | |
| Digital Photography 1 | .5 | |
| Graphic Design 1 | .5 | |
| Graphic Design 2 | .5 | |
| Section 3 – Advanced Courses | Credits Earned at KHS | College Credits Earned |
| Accounting 2 | 1 | 3 (QVCC) |
| Film Production | 1 | |
| Trigonometry | 1 | |
| Honors Calculus | 1 | |
| Journalism 2 | 1 | |
| Honors English 4 | 1 | |
| AP English 4 | 1.5 | |

Instructor: Gena Torre

This Career Pathway could lead to one of the following careers: 3D/2D Developer, Motion Graphics Specialist, Web Developer, Media Developer, Instructional Developer, Web Administrator, Virtual Reality Specialist, Webmaster, Site Developer, Technical Writer, Simulation Developer, Production Assistant, Media Specialist, and Advertising Specialist. (Rev'd 1/23)