

Killingly High School Program of Studies

Table of Contents

	<u>Page</u>
<u>Academic Information</u>	
Graduation Requirements	2
Performance Graduation Requirements (PGRs)	2
Course Level Descriptions	2
Honor Roll	3
Class Rank	3
Course Change Process	3
<u>Career Clusters & Career Pathways</u>	
Career Pathway Selection Process	4 & 68
<u>Courses by Department</u>	
Agriculture Education Department	6
Alternative Learning Program (ALPS)	10
Art Department	10
Business & Computer Science Department	16
English Department	22
Family & Consumer Science Department	31
Mathematics Department	33
Music Department	38
Physical Education and Health Department	45
Science Department	47
Social Studies Department	53
Technology Department	57
Workplace Readiness Program	61
World Language Department	62
College Career Pathways (<i>Formally Tech Prep</i>)	92
QVCC Program Options	93
KHS School-to-Career Program	94

Academic Information

Graduation Requirements

For the Class of 2011 and Beyond

English	4
Social Studies (including U.S. History and American Citizenship)	3
Mathematics	3
Science (including Biology)	3
Physical Education	1.5
Health (required in grades 9 or 10)	.5
Career & Technical Education and the Arts	2
Electives (.50 in a Computer course)	7
Credits Required for Graduation.....	24

Performance Graduation Requirements (PGRs)

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

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

Students must meet both the required credits and achieve mastery in PGRs 1-8. Students may fulfill PGRs through specific courses or, in some cases, through CAPT test scores of 3, 4, 5.

Course Level Descriptions

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

Honors and/or Advanced Placement (AP)

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

College Preparatory (CP)

Students planning to attend four-year colleges should enroll in CP courses whenever possible. These courses are also rigorous in nature. Students should expect nightly homework and extensive writing and class discussion.

General

These courses aim at improving the knowledge and skills of students and will move at a slightly slower pace than CP courses. Students planning to attend community college, 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.

School Counselors will help students select courses based on 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 the education career portfolio.

Honor Roll

Weighted grading is not used in determining the Honor Roll. The Honor Roll is calculated quarterly. Students must be considered full time to be eligible for the Honor Roll.

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+)

Class Rank

Class rank is determined by using a weighted system. The level of the course and grade earned determines the point value in the weight system. The weights and corresponding values are described 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
NC or N	0	0	0	0
WF (w/draw-failing)	0	0	0	0
WP (w/draw-passing)	0	0	0	0

Course Change Process

Students and families should take great care in selecting courses since KHS discourages changing courses unless there are extenuating circumstances. Students should meet with teachers and their school counselor to ensure that the courses are at the appropriate level, they meet the graduation requirements, and they are of interest to the student.

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

1. Prior to the opening of school in August;
2. During the first five days of the semester - September and January

After the first five days, the Student Request to Change Course form is used. The process involves the teacher, department chair, parent, and school counselor. After the first ten school days of a marking period, the principal must approve any course changes.

Certain course changes will be reflected on the report card and permanent transcript. If a student drops a course after the first marking period in that course, a grade of WP (Withdraw Passing) or WF (Withdraw Failing) will appear on the report card. These marks do not affect grade point average or rank in class, but do appear on the permanent record.



Career Clusters & Career Pathways

CAREER PATHWAY Selection Process

All students, beginning with the class of 2013, shall select an initial Career Pathway and develop a related post-secondary career plan with the help of their school counselor during the freshman year. Students will have opportunities to review and revise their pathway choice each year based on their work in Success 101, course experiences, personal interests, research and work-based activities. Students who accumulate a minimum of four (4) credits within a specific pathway will be recognized with a Career Pathway Certificate at graduation. Credits earned toward a Pathway Certificate may be a combination of “required” courses and “additional” courses as listed in the Program of Studies. Earning a Pathway Certificate is not a graduation requirement.

What is the Career Clusters & Pathway Program?

The Career Clusters and Pathways Program reinforces that the high school years are a significant transition to future career possibilities and adult responsibilities. The program is intended to help students focus on specific career opportunities that meet **their** interests. Therefore, the student connects the high school experience to the Real World of Work and gives the student a purpose for excelling at this level. The Pathway teachers become both academic and, in a sense, career mentors.

“As we think about how to remake high schools to improve academic outcomes and ensure that our students can compete in the labor market... we also need to ensure that classes are engaging and that students are motivated to learn because they see a pathway to their future.”

Career Pathways: Education with a Purpose. Hull, Dan, 2005)

Career Clusters are general fields of interest. Killingly High School has eight Career Clusters. As students consider the nature of a career or job that interests them, more than likely that interest would fall under one of the categorized clusters below.

The eight Career Clusters are:

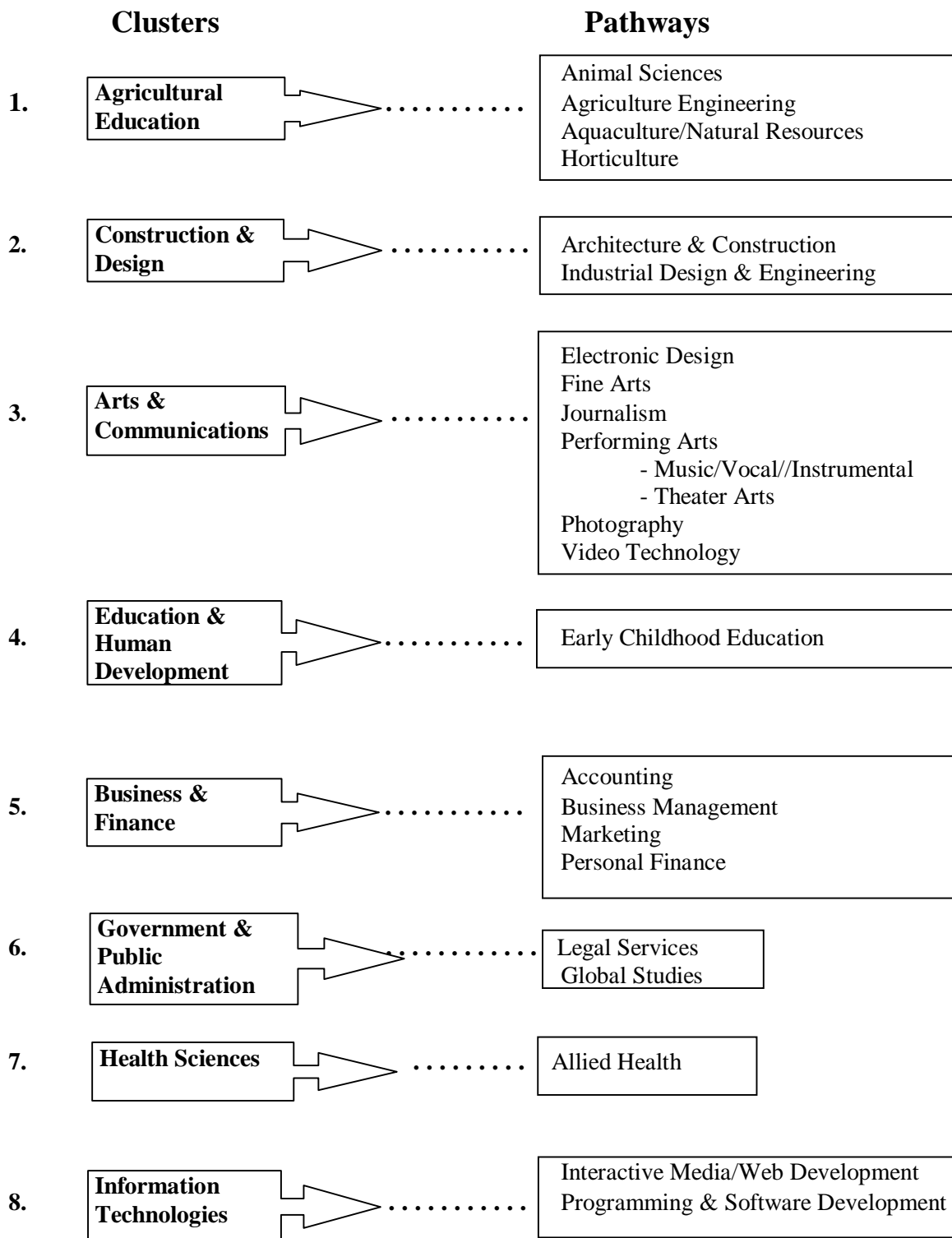
- 1. Agricultural Education**
- 2. Construction & Industrial Design**
- 3. Arts & Communications**
- 4. Education & Human Development**
- 5. Business and Finance**
- 6. Government & Public Administration**
- 7. Health Sciences**
- 8. Information Technologies**



Career Pathways are subgroups of Career Clusters and continually evolve and reflect occupational areas to meet the dynamics of the national and state economic landscape. The occupational areas may share many of the same skills and knowledge. Pathways guide students to make better course selections. As students connect the relationship between the high school experience and the Real World, they become motivated to learn and find the purpose for excelling in their classes. Furthermore, students make more knowledgeable decisions regarding post secondary education and the necessary steps needed to successfully lead them to their career of choice. The following page lists the eight **clusters** with their associated **pathways**.



Career Clusters & Career Pathways



AGRICULTURE EDUCATION DEPARTMENT

<i>Course #</i>	<i>Title</i>	<i>Level</i>	<i>Credit</i>	<i>Duration</i>	<i>Grade</i>
1870	Agriculture Education 1	General	1	Year	9
1872	Animal Science 2	College Prep	2	Year	10
1873	Horticulture 2	ECE	2	Year	10
1874	Agricultural Engineering 2	College Prep	2	Year	10
1875	Aquaculture/Natural Resources 2	College Prep	2	Year	10
1877	Animal Science3	College Prep	2	Year	11
1878	Horticulture 3	ECE	2	Year	11
1879	Agricultural Engineering/Forestry 3	College Prep	2	Year	11
1880	Aquaculture/Natural Resources 3	College Prep	2	Year	11
1882	Animal Science 4	College Prep	2	Year	12
1883	Horticulture 4	ECE	2	Year	12
1884	Agricultural Engineering/Forestry 4	College Prep	2	Year	12
1885	Aquaculture/Natural Resources 4	College Prep	2	Year	12

AGRICULTURE EDUCATION 1

Course Number: 1870
 Open To: Students who have applied and been accepted to the Ag-Ed Program
 Prerequisites: Interest in a career in Agriculture
 Weight: General
 Duration/Credit: Full Year/1 Credit

This course is composed of eight units of instruction in the basics of animal science, plant science, forestry, aquaculture, agricultural mechanics and natural resources, FFA and career exploration to acquaint the students with the nature and scope of agricultural careers. The FFA activities are integrated into the in-school program. All students are required to have a satisfactory Supervised Agricultural-Experience Program (SAE) in one of the major divisions of agriculture (plant science, animal science, forestry, aquaculture, agriculture mechanics, or natural resources). This is supervised by one of the Agriculture instructors working in conjunction with the student's parents and/or employer. Supervised agricultural-experience program record books must be maintained and are graded. Students must successfully pass the in-school program and have a satisfactory agricultural-experience program to obtain credit for Agriculture Education 1. Students must have at least a "C-" average to go into Agriculture Education 2. Agriculture students receive one science cluster credit.

ANIMAL SCIENCE 2

Course Number: 1872
 Open To: Students who have successfully completed Ag 1
 Prerequisites: Successful completion of Ag 1 ("C-" or higher)
 Weight: College Prep
 Duration/Credit: Full Year/2 Credits
 PGR: #3 Persuasive Argument, #6 Oral Communication

This course is designed for students who have completed Ag 1 with an interest in Animal Science. Students will be expected to participate in hands on work in the animal lab as well as complete oral and written assignments. Participation in FFA career development events and other FFA activities is required. Students must maintain a minimum of a "C-" average and have a satisfactory SAE program to earn credit and to be admitted into Animal Science 3.

HORTICULTURE 2

Course Number: 1873
Open To: Students who have successfully completed Ag 1
Prerequisites: Successful completion of Ag 1 (“C-” or higher)
Weight: ECE
Duration/Credit: Full Year/2 Credits
PGR: #3 Persuasive Argument, #6 Oral Communication

This course is designed for students who have completed Ag 1 with an interest in a career in Horticulture. Horticulture students will be expected to participate in hands on work in the greenhouse or land lab as well as complete oral and written assignments. Participation in FFA career development events and other FFA activities is required. Students must maintain a minimum of a “C-” average and have a satisfactory SAE program to earn credit and to be admitted into Horticulture 3. Students will be able to earn 2 UCONN credits after completing this course.

AGRICULTURAL ENGINEERING 2

Course Number: 1874
Open To: Students who have successfully completed Ag 1
Prerequisites: Successful completion of Ag 1 (“C-” or higher)
Weight: College Prep
Duration/Credit: Full Year/2 Credits
PGR: #3 Persuasive Argument, #6 Oral Communication

This course is designed for students who are interested in a career in agricultural engineering/forestry. Students will learn how to safely use and operate shop and farm equipment as well as complete oral and written assignments. Students must maintain a minimum of a “C-” average to be admitted to Agriculture Engineering/Forestry 3 and have a satisfactory SAE program. Participation in FFA career development events and other FFA activities is required.

AQUACULTURE/NATURAL RESOURCES 2

Course Number: 1875
Open To: Students who have successfully completed Ag 1
Prerequisites: Successful completion of Ag 1 (“C-” or higher)
Weight: College Prep
Duration/Credit: Full Year/2 Credit
PGR: #3 Persuasive Argument, #6 Oral Communication

Students must have an interest in aquaculture and natural resources. Students will be expected to participate in hands on work in the aquacultural/land labs as well as complete oral and written assignments. Participation in FFA career development events and other FFA activities is required. Students must maintain a minimum of a “C-” average and have a satisfactory SAE program to earn credit to be admitted to Aquaculture/Natural Resources 3.

ANIMAL SCIENCE 3

Course Number: 1877
Open To: Students who have successfully completed Animal Science 2
Prerequisites: Successful completion of Animal Science 2 (“C-” or higher)
Weight: College Prep
Duration/Credit: Full Year/2 Credits
PGR: #3 Persuasive Argument, #6 Oral Communication

This course is designed for students who have completed Animal Science 2 and have an interest in a career in Animal Science. Animal Science students will be expected to demonstrate knowledge in selection and judging of animals, food products, nutrition and genetics, and participate in managing the animal lab. Participation in FFA career development events and other FFA activities is required. Students must maintain a minimum of a “C-” average and have an SAE program that demonstrates skill building to earn credit and to be admitted into Animal Science 4.

HORTICULTURE 3

Course Number: 1878
Open To: Students who have successfully completed Horticulture 2
Prerequisites: Successful completion of Horticulture 2 (“C-” or higher)
Weight: ECE
Duration/Credit: Full Year/2 Credits
PGR: #3 Persuasive Argument, #6 Oral Communication

This course is designed for students who have completed Horticulture 2 and have a satisfactory SAE. Horticulture 3 students will be expected to be involved in planning and scheduling greenhouse crops and planning landscape designs, as well as complete oral and written assignments. Participation in FFA career development events and other FFA activities is required. Student’s must maintain a minimum of a “C-” average and have a satisfactory SAE program to earn credit and to be admitted into Horticulture 4. Students will be able to earn 3 UCONN credits after completing this course.

AGRICULTURAL ENGINEERING/FORESTRY 3

Course Number: 1879
Open To: Students who have successfully completed Agricultural Engineering/ Forestry 2
Prerequisites: Successful completion of Agricultural Engineering/Forestry 2 (“C-” or higher)
Weight: College Prep
Duration/Credit: Full Year/2 Credits
PGR: #3 Persuasive Argument, #6 Oral Communication

This course is designed for students who have completed Agriculture Engineering/Forestry 2 and have a satisfactory SAE. Students will be expected to successfully operate all shop and farm equipment, and do routine maintenance, as well as complete oral and written assignments. Students must maintain a minimum of a “C-” average and have a satisfactory SAE program to earn credit and to be admitted into Agricultural Engineering/Forestry 4. Participation in FFA career development events and other FFA activities is required.

AQUACULTURE/NATURAL RESOURCES 3

Course Number: 1880
Open To: Students who have successfully completed Aquaculture/Natural Resources 2
Prerequisites: Successful completion of Aquaculture/Natural Resources 2 (“C-” or higher)
Weight: College Prep
Duration/Credits: Full Year/2 Credit
PGR: #3 Persuasive Argument, #6 Oral Communication

This course is designed for students who have completed Aquaculture/Natural Resources 2 and have a satisfactory SAE. Natural Resource 3 students will be expected to participate more and assist in planning the work in the labs as

well as complete oral and written assignments. Participation in FFA Natural Resources career development events and other FFA activities is required. Students must maintain a minimum of a “C-” average and have a satisfactory SAE program to earn credit and to be admitted into Aquaculture/Natural Resources 4.

ANIMAL SCIENCE 4

Course Number: 1882
Open To: Students who have successfully completed Animal Science 3
Prerequisites: Successful completion of Animal Science 3 (“C-” or higher)
Weight: College Prep
Duration/Credits: Full Year/2 Credits
PGR: #3 Persuasive Argument, #6 Oral Communication

This course is designed for students who have completed Animal Science 3 and have an SAE program that develops skills and shows growth. Animal Science 4 students will be expected to demonstrate advanced knowledge in selecting and judging animals, food products, apply for advanced FFA degrees, complete an efficiency award form, and participate in managing the animal lab. Participation in FFA career development events and other FFA activities is required.

HORTICULTURE 4

Course Number: 1883
Open To: Students who have successfully completed Horticulture 3
Prerequisites: Successful completion of Horticulture 3 (“C-” or higher)
Weight: ECE
Duration/Credit: Full Year/2 Credits
PGR: #3 Persuasive Argument, #6 Oral Communication

This course is designed for students who have completed Horticulture 3 and have a satisfactory SAE. Horticulture 4 students will be expected to schedule greenhouse crops, design and install landscapes, and create wedding arrangements as well as complete oral and written assignments. Participation in FFA career development events and other FFA activities is required. Students will be able to earn 3 UCONN credits after completing this course.

AGRICULTURAL ENGINEERING/FORESTRY 4

Course Number: 1884
Open To: Students who have successfully completed Agricultural Engineering/Forestry 3
Prerequisites: Successful completion of Agricultural Engineering/Forestry 3 (“C-” or higher)
Weight: College Prep
Duration/Credit: Full Year/2 Credits
PGR: #3 Persuasive Argument, #6 Oral Communication

This course is designed for students who have completed Agricultural Engineering/Forestry 3 and have a satisfactory SAE. Students will be expected to operate, maintain, and repair all shop and farm equipment, as well as complete oral and written assignments. Participation in FFA career development events and other FFA activities is required.

AQUACULTURE/NATURAL RESOURCES 4

Course Number: 1885
Open To: Students who have successfully completed Aquaculture/Natural Resources 3
Prerequisites: Successful completion of Aquaculture/Natural Resources 3 (“C-” or higher)
Weight: College Prep
Duration/Credit: Full Year/2 Credits
PGR: #3 Persuasive Argument, #6 Oral Communication

This course is designed for students who have completed Aquaculture/Natural Resources 3 and have a satisfactory SAE. Students will be expected to plan and manage all aspects of an aquaculture facility and assume responsibility for care of aquaculture/land labs as well as complete oral and written assignments.

Participation in FFA career development events and other FFA activities is required.

ALTERNATIVE LEARNING PROGRAM (ALPS)

The Alternative Learning Program for Students (ALPS) offers a unique opportunity for students having difficulties with their current educational program. ALPS helps students facilitate new ways of dealing with those difficulties and enables them to pursue the goal of graduation.

The program is a small, personalized environment located off campus. Its staff consists of two teachers and an instructional assistant. A part-time counselor provides services on a weekly basis. Enrollment is limited to twenty-five students from grades nine through twelve. The curriculum covers the major academic areas and two electives using a fixed block schedule now compatible with KHS.

The defining factor regarding ALPS is that the program is a program of choice. All students **MUST** elect to attend ALPS. This is done with the understanding that ALPS is a program of choice with a focus on attendance, academics, and attitude. Don't drop out, consider the Alternative!

NOTE: Students can meet all PGR requirements through enrollment in ALPS.

ART DEPARTMENT

<i>Course #</i>	<i>Title</i>	<i>Level</i>	<i>Credit</i>	<i>Duration</i>	<i>Grade</i>
1700	Original Arts Production	General	.5	Semester	9-12
1702	Art 1	College Prep	.5	Semester	9-12
1704	Fundamentals of Drawing	College Prep	.5	Semester	9-12
1706	Fundamentals of Painting	College Prep	.5	Semester	10-12
1708	Fundamentals of Sculpture	College Prep	.5	Semester	9-12
1709	Digital Photography 1	College Prep	.5	Semester	9-12
1712	Graphic Design 1	College Prep	.5	Semester	9-12
1714	Printmaking 1	College Prep	.5	Semester	9-12
1718	Art 2	College Prep	.5	Semester	9-12
1720	Advanced Drawing	College Prep	.5	Semester	10-12
1722	Advanced Painting	College Prep	.5	Semester	10-12
1725	Digital Photography 2	College Prep	.5	Semester	9-12
1727	Digital Photography 3	College Prep	.5	Semester	10-12
1728	Graphic Design 2	College Prep	.5	Semester	9-12
1730	Printmaking 2	College Prep	.5	Semester	10-12
1732	Digital Imaging	College Prep	.5	Semester	10-12
1734	Art & Culture in the 21 st Century	College Prep	.5	Semester	10-12
1738	Photography Leadership	College Prep	.5	Semester	12

ORIGINAL ARTS PRODUCTION

Course Number: 1700
Open To: Grades 9-12
Prerequisites: None
Weight: General
Duration/Credits: Semester/.5 Credit

Students will learn to make artistic 2 and 3 dimensional objects that serve a practical purpose. Students will explore color and design concepts through the use of varied materials and processes. Students will design and construct functional works of art, example: tile mosaics. Some projects may require students to purchase material.

ART 1

Course Number: 1702
Open To: Grades 9-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit

In this foundation course, students are taught to create impressive compositions as they use elements and principles of design with a variety of materials. Students are challenged to find personal expressive solutions to developmental projects while learning linear perspective and observation drawing. This course is a prerequisite for other Art classes except Digital Photography 1, Graphic Design 1 and Original Arts Production

FUNDAMENTALS OF DRAWING

Course Number: 1704
Open To: Grades 9-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit

Students will explore drawing from observation. Emphasis will be placed on contour line, perspective, proportion and value. Projects will allow students to experience a variety of media while focusing on different styles and techniques. Students will be exposed to both historical and contemporary works of art. Students will work toward portfolio development.

FUNDAMENTALS OF PAINTING

Course Number: 1706
Open To: Grades 10-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit

This course begins with color theory, mixing colors, and application of paint. Students will learn how to paint from observation as well as imagination. Emphasis will be placed on composition, perspective, proportion, contour line, value and use of color. Students will explore a variety of media and techniques through a series of developmental projects. Historic and contemporary works of art will be introduced and discussed. Students will work toward portfolio development. Students will evaluate themselves and others through written and oral critiques.

FUNDAMENTALS OF SCULPTURE

Course Number: 1708
Open To: Grades 9-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit

Students use materials such as plaster, clay, wire, and found objects as they explore sculpture processes including carving, modeling, and assembling. Students will apply basic principles of art learned in Art 1 as they sculpt a range of realistic and nonobjective forms. Students gather reference images, design and construct 3-4 sculptures, photograph their work, and compile a sculpture journal.

DIGITAL PHOTOGRAPHY 1

Course Number: 1709
Open To: Grades 9-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit

Digital photography will cover image capture and production. Students will learn about shutter speed, aperture, depth of field, lenses, and they will take light readings through the digital camera shooting in the manual mode. Memory cards will capture images, and the MAC computer and the use of various photography software will be used to adjust exposures. Photographs will be produced on an industrial Epson photo printer. Students investigate the photograph as a means of visual communications. Professional digital cameras will be provided to students when shooting their assignments on location during mandatory field trips. Students will be introduced to the history of photography, participate in class critique, produce a professional portfolio of their work, and will be introduced to the lighting studio. The content of this course will emphasize: (1) The development of vocational skills; (2) Design of photographic images to effectively communicate selected information; (3) Production of a photographic portfolio.

GRAPHIC DESIGN 1

Course Number: 1712
Open To: Grades 9-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit

Graphic Design students will explore the fundamentals of artistic design through technology. Students progress toward understanding and utilizing design concepts within Photoshop and Illustrator. Emphasis is placed on the elements and principles of design and their creative application to illustration, package design and advertisement. Students will learn how to develop layouts, manipulate type, and express themselves creatively. Focus will be placed on portfolio development. Students will evaluate themselves and others through written and oral critiques.

PRINTMAKING 1

Course Number: 1714
Open To: Grades 9-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit

This course introduces students to various forms of printmaking including methods such as monoprinting and relief printing and intaglio. Students will be exposed to the history of printmaking. Students will develop a portfolio of work and will participate in class critiques.

ART 2

Course Number: 1718
Open To: Grades 9-12
Prerequisites: Grade of "C" or better in Art 1
Weight: College Prep
Duration/Credit: Semester/.5 Credit

This course is a continuation of Art 1. Students will use additional mediums and have the opportunity to explore three dimensional projects. Students will learn about historical and contemporary works of Art as well as the four steps involved in Art criticism. Students will evaluate themselves and others through written and oral critiques.

ADVANCED DRAWING

Course Number: 1720
Open To: Grades 10-12
Prerequisites: Grade of "C" or better in Fundamentals of Drawing
Weight: College Prep
Duration/Credit: Semester/.5 Credit

This course concentrates on a more detailed study of drawing techniques and composition as compared to Fundamentals of Drawing. Students are encouraged to work toward developing their own personal style. Course content may include but is not limited to studies of the human figure, landscape, still life, self-portraits and collage. Students will be exposed to both historical and contemporary works of art. Students will work towards completing a well organized portfolio. Students will evaluate themselves and others through written and oral critiques.

ADVANCED PAINTING

Course Number: 1722
Open To: Grades 10-12
Prerequisites: Grade of "C" or better in Fundamentals of Painting
Weight: College Prep
Duration/Credit: Semester/.5 Credit

This course concentrates on a more detailed study of painting techniques and composition as compared to Fundamentals of Painting. Students are encouraged to explore personal subjects and style of expression. Students will conduct individual research of historical and contemporary painting. Students will continue to work toward completing a well-organized portfolio. Students will evaluate their progress through writer reflection and critique.

DIGITAL PHOTOGRAPHY 2

Course Number : 1725
Open To: Grades 9-12
Prerequisites: Grade "C" or better in Digital Photography 1
Weight: College Prep
Duration/Credit: Semester/.5 Credit

This course covers advanced image making. Students explore career-related approaches to photography including photo journalism, fine arts, and portraiture/fashion. Students will work in a professional lighting studio. Photographic assignments will take place in the studio and some on location during field trips. Students will study the history of photography, participate in class critiques and produce a professional portfolio of their work.

DIGITAL PHOTOGRAPHY 3

Course Number : 1727
Open To: Grades 10-12
Prerequisites: Grade "C" or better in Digital Photography 2
Weight: College Prep
Duration/Credit: Semester /.5 Credit

This course is a continuation of Digital Photography 2 and advanced image making. Students will explore career related approaches, photograph their assignments on location during field trips, and work in the lighting studio exploring product photography. Students will study the history of photography, participate in class critiques and produce a professional portfolio of their work.

GRAPHIC DESIGN 2

Course Number: 1728
Open to: Grades 9-12
Prerequisites: Grade of "C" or better in Graphic Design 1
Weight: College Prep
Duration/Credit: Semester/.5 Credit

Students will learn to apply the skills and techniques learned in Graphic Design 1 to a variety of projects. Electronic Design 2 offers students exciting opportunities to explore the elements and principles of design as they apply to illustration, package design, photo manipulation, and advertisement. Students will continue to work toward completing a well-organized portfolio.

PRINTMAKING 2

Course Number: 1730
Open To: Grades 10-12
Prerequisites: Grade of "C" or better in Printmaking 1
Weight: College Prep
Duration/Credit: Semester/.5 Credit

This level of printmaking is designed to involve the student in the various techniques and skills developed in Printmaking 1. There will be an emphasis on composition and advanced printmaking techniques. The focus for subject matter will be tied in directly to the development of the student's ideas and concepts. Students will develop a portfolio of work and will participate in class critiques.

DIGITAL IMAGING

Course Number: 1732
Open to: Grades 10-12
Prerequisites: Grade of "C" or better in Graphic Design 1
Weight: College Prep
Duration/Credit: Semester/.5 Credit

This course is a Fine Arts approach in computer imaging. Students will learn the process of producing images with a digital camera. Students will explore image manipulation, enhancement and the integration of text, digital photography, scanning and drawing. Students will create an interactive portfolio in Power Point of their work.

ART & CULTURE IN THE 21ST CENTURY

Course Number: 1734
Open To: Grades 10-12
Prerequisites: None
Weight: College Prep
Duration/Credits: Semester/.5 Credit

The study of art and culture is an adventure through time. Students will explore art movements, styles and cultures and their relationships to the 21st century through the study of painting, pottery, glass, folk art and architecture. Students will play an active role in learning about the various ways in which art and culture have been intertwined throughout history. Slide shows, lectures, films, class discussions, comparative essays, observational writing, interviews (folklore) and field trips will be part of the teaching process.

PHOTOGRAPHY LEADERSHIP

Course Number: 1738
Open To: Grade 12
Prerequisites: Successful completion of Photo 1, 2, 3, Independent Study
Weight: College Prep
Duration/Credit: Semester/.5 Credit

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.

INDEPENDENT STUDY IN DRAWING, PAINTING, ELECTRONIC DESIGN, PHOTOGRAPHY & PRINTMAKING

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

1. Only those students who have completed all sequential classes within the desired area (i.e. Art, Electronic Design, Drawing, Photography, 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

<i>Course #</i>	<i>Title</i>	<i>Level</i>	<i>Credit</i>	<i>Duration</i>	<i>Grade</i>
1610	Success 101	College Prep	.5	Semester	9
1614	Computer Literacy	College Prep	.5	Semester	10-12
1615	Microsoft Word	General	1	Year	10-12
1618	Introduction to Business	College Prep	.5	Semester	9-12
1622	Entrepreneurship and Marketing	College Prep	1	Year	10-12
1624	Business Management	College Prep	1	Year	10-12
1629	Sport Management	College Prep	.5	Semester	10-12
1631	Business Communication	College Prep	.5	Semester	11-12
1634	Personal Finance	College Prep	.5	Semester	11-12
1636	International Business	College Prep	.5	Semester	10-12
1639	Business Law	College Prep	.5	Semester	10-12
1640	Accounting 1	College Prep	1	Year	10-12
1645	Accounting 2	Honors	1	Year	11-12
1650	Introduction to Programming	College Prep	1	Year	9-12
1653	Visual Basic	Honors	1	Year	10-12
1655	Digital Marketing 1	College Prep	1	Year	10-12
1656	Digital Marketing 2	College Prep	1	Year	10-12
1658	Web Development	College Prep	1	Year	10-12

SUCCESS 101

Course Number: 1610
 Open to: Grade 9
 Prerequisites: None
 Weight: College Prep
 Duration/Credit: Semester/.5 Credit
 PGR: #1 Education/Career Portfolio

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-inclusive, 10-year educational plan. This will help students develop goals and have a clear sense of direction for their high school years and beyond. Students can then take courses at KHS in their area of interest, so they may work toward their career goals. Some topics covered include career research, decision-making, budgeting, and goal setting.

COMPUTER LITERACY

Course Number: 1614
 Open to: Grades 10-12
 Prerequisites: Typing Speed of 25 wpm using the touch-typing technique
 Weight: College Prep
 Duration/Credit: Semester/.5 Credit
 PGR: #1 Education/Career Portfolio; #2 Use of Computer Technology

This fast-paced 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, and manage print jobs. You will practice creating various presentations that are targeted to specific audiences or situations

using Word, Excel, PowerPoint and E-mail. Internet research skills will be expanded. Successful completion of this course fulfills your computer literacy requirement.

MICROSOFT WORD

Course Number: 1615
Open to: Grades 10-12
Prerequisites: None
Weight: General
Duration/Credit: Year/1 Credit
PGR: #1 Education/Career Portfolio; #2 Use of Computer Technology

You will learn correct keyboarding techniques and develop keyboarding speed – life skills essential for success in today’s technological world, no matter what career choice you might make. Through an in-depth study of Microsoft Word, you will learn to format professional-looking documents such as letters, memos, reports and much more. In addition, basic PowerPoint concepts will be introduced. This course fulfills the computer literacy requirement.

INTRODUCTION TO BUSINESS

Course Number: 1618
Open to: Grades 9-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit

Do you like to be challenged? Are you willing to take a risk? Open your eyes to the world around you through an exploration of business. This fun, interactive course will give you the opportunity to experience many aspects of business. Learn how to invest in stocks, develop team building skills, create advertising campaigns, use a checkbook, create stimulating presentations, and much more. Explore business using a hands-on approach to learning . . . no textbooks here . . . just exciting activities to showcase how to survive in our ever-changing business world.

ENTREPRENEURSHIP AND MARKETING

Course Number: 1622
Open to: Grades 10-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Year/1 Credit

Topics such as market research, understanding the customer, advertising, costs and pricing of products and services, and sales promotion will be explored. An entrepreneur is a person who organizes, operates, and assumes the risk for a new business. You will learn these topics by actually planning and running a small business within the classroom. By the end of the course, you will have created a working business plan. You will learn how to make choices such as how to organize and manage your business, how to get funding and keep track of expenses and income, and how to manage employees. If time allows, students will participate in a Virtual Retailing simulation in which they run and market their own convenience store.

BUSINESS MANAGEMENT

Course Number: 1624
Open to: Grades 10-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Year/1 Credit

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-work business situations. You will learn how a business functions and use that technology to enhance decision making within an organization. You will apply your new skills through managing the school store.

SPORT MANAGEMENT

Course Number: 1629
Open to: Grades 10-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit

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: 1631
Open to: Grades 11-12
Prerequisites: Enrollment in QVCC College Career Pathway Program recommended
Weight: College Prep
Duration/Credit: Semester/.5 Credit
PGR: #5 Oral Communication

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. Extensive use of computer technology will be utilized. Students may earn college credit by successfully completing this course and enrolling in the College Career Pathways Program through Quinebaug Valley Community College.

PERSONAL FINANCE

Course Number: 1634
Open To: Grades 11-12
Prerequisites: Algebra 1 recommended
Weight: College Prep
Duration/Credit: Semester/.5 Credit

*Anyone can become a millionaire! **David Bach.** No matter who you are, making informed decisions about what you do with your money will help build a more stable financial future for you and your family. **Alan Greenspan.** This course will help you become a knowledgeable money manager, to make informed decisions and to reach personal financial goals. You will explore money management topics such as savings and checking accounts,*

investing with emphasis on the stock market, buying a car, loans, risk management, managing income and debt, and banking. Students will compete in an Internet stock market simulation.

INTERNATIONAL BUSINESS

Course Number: 1636
Open to: Grades 10-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit

The international business area commands center stage in today's global economy. Did you know in Thailand, it is customary to exchange gifts during your second business meeting? In China, however, gift giving is considered a form of bribery and is actually illegal. This course will raise your awareness of the cultural as well as the political and business customs and practices of many countries. You will explore basic concepts essential to understanding international finance, management, marketing, and trade relations. An international business opportunity may be identified in which you will use the Internet to connect to business students from another country. International travel is a possibility depending on student interest.

BUSINESS LAW

Course Number: 1639
Open To: Grades 10-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit
PGR: #3 Persuasive Argument

This is a course for students who enjoy researching and arguing law issues in a respectful atmosphere. The following basic topics will be covered: types of law, court systems and procedures, criminal law, lawsuits and contracts. After studying the basics, students may choose to explore one or more of the following topics: property law, commercial paper, secured transactions, insurance, bankruptcy, computer law, wills, trusts, and international law.

ACCOUNTING 1

Course Number: 1640
Open To: Grades 10-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Year/1 Credit
PGR: #4 Numeric Problem Solving

This course focuses on double-entry 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. For juniors and seniors only, a final grade of "C" or higher will meet the PGR #4 requirement.

ACCOUNTING 2

Course Number: 1645
Open To: Grades 11-12
Prerequisites: Successful completion of Accounting 1; Enrollment in QVCC College Career Pathway Program recommended
Weight: Honors
Duration/Credit: Year/1 Credit
PGR: #4 Numeric Problem Solving

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

Current accounting software will be used to explore the automated accounting cycle. Advanced accounting concepts centered around a merchandising corporation will be discussed. Emphasis will be placed on interpreting and analyzing financial statements to evaluate the performance of an organization. Students will explore topics in various accounting disciplines including cost accounting, managerial accounting, and forensic accounting. 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. A final grade of "C" or higher will meet the PGR #4 requirement.

INTRODUCTION TO PROGRAMMING

Course Number: 1650
Open to: Grades 9-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Year/1 Credit
PGR: #2 Use of Computer Technology

You are part of a computerized society and the intellectual challenge of controlling the operations of a computer is not only rewarding but also an invaluable skill. This course is concerned with the programming of one of our tools, the computer. Perhaps you wish to explore the possibility of a career in computer science and programming. This course is an excellent starting point and will give you the foundation you will need for such programming languages as Visual Basic, Visual C, Java, PHP, Internet Programming and almost any other programming language used to develop customized software. Topics include decision making structures, repetition and accumulation, single and double arrays, subroutines and functions, graphics, music and special sounds. You will be able to write business, education, entertainment and many other types of programs. When you complete this course, you will be ready to study other computer languages. This course is a prerequisite for the more advanced programming courses offered. Students who have successfully completed this course may earn college credit through Quinebaug Valley Community College – College Career Pathway Program or through New England Institute of Technology.

VISUAL BASIC

Course Number: 1653
Open To: Grades 10-12
Prerequisites: Introduction to Programming and permission of instructor
Weight: Honors
Duration/Credit: Year/1 Credit
PGR: #2 Use of Computer Technology

Due to its extraordinary combination of power and ease of use, Visual Basic has become the tool of choice for developing user-friendly Windows applications in the business world. This course builds upon the programming

fundamentals learned in Introduction to Programming to create a window-based interface that is event driven. The core of a Visual Basic program is the independent instructions that are activated by the events that they have been told to recognize. You will learn to write programs that give the user control with command buttons, text boxes, graphics and other objects that will automatically recognize user actions and react appropriately. Visual Basic is an excellent programming language for solving a variety of problems, and it is fun to work with.

DIGITAL MARKETING 1

Course Number: 1655
Open To: Grades 10-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Year/1 Credit
PGR: #2 Use of Computer Technology

This course is designed to introduce students to new ways of creating digital marketing tools, and the procedures necessary to prepare graphics for programming, Web development, and business publications with the industry-standard applications available in the first half of the Adobe Creative Suite 4 as well as partnership hardware. A hands-on skill and technique approach to learning is used throughout the course. We will explore such topics as masking compositions, image mapping, three-dimensional graphics as well as rollover object preparation, transparent digital images, motion graphics, weighted optimization and color tables for digital exploration along with many other techniques that are used today to produce effective visual marketing tools. Students who have successfully completed this course may earn college credit through Quinebaug Valley Community College – College Career Pathways Program or through New England Institute of Technology.

DIGITAL MARKETING 2

Course Number: 1656
Open To: Grades 10-12
Prerequisites: Digital Marketing 1 or permission of instructor
Weight: College Prep
Duration/Credit: Year/1 Credit
PGR: #2 Use of Computer Technology

In this course we will concentrate on the second half of the Adobe Creative Suite 4, InDesign and Acrobat Professional. InDesign is a comprehensive program that allows you to create output-ready layouts from a simple corporate newsletter to a full-color magazine, working seamlessly with the software packages studied in Digital Marketing 1. We will study text flow, formatting attributes, lists and tables, drawing tools, graphic importation and manipulation, publication enhancements, visual effects, and long-document functions. Acrobat's Portable Document Format easily repurposes content into a digital form that is readable by the masses. We will use Acrobat to convert and create interactive PDF documents, exploring bookmarks, hyperlinks, state palettes, forms, embedded sounds and movies, and distribution. Students who have successfully completed this course many earn college credit through Quinebaug Valley Community College – College Career Pathways Program or through New England Institute of Technology.

WEB DEVELOPMENT

Course Number: 1658
Open To: Grades 10-12
Prerequisites: Introduction to Programming or permission of instructor
Duration/Credit: Year/1 Credit
PGR: #2 Use of Computer Technology

Web development compels us to rise to a new level of problem solving that requires both practical and innovative thinking. This is a hands-on course that concentrates on the development of good coding skills to create well-structured pages. We will explore the fundamentals of Web programming including working with text and images, setting up links and navigation systems, formatting tables and frames, adding head content and creating cascading

style sheets. More advanced topics required for site behaviors and interactivity are studied in the second half of the course when we explore such Web development tools as Dreamweaver CS4 and Flash CS4. Students who have successfully completed this course many earn college credit through Quinebaug Valley Community College – College Career Pathways Program or through New England Institute of Technology.

ENGLISH DEPARTMENT

<i>Course #</i>	<i>Title</i>	<i>Level</i>	<i>Credit</i>	<i>Duration</i>	<i>Grade</i>
1009*	English 1 Prep	General	1	Year	9
1010	English 1	College Prep	1	Year	9
1020	Honors English 2	Honors	1	Year	10
1021	CP English 2	College Prep	1	Year	10
1022	General English 2	General	1	Year	10
1030	Honors English 3	Honors	1	Year	11
1033	CP American Literature 3	College Prep	1	Year	11
1035	General American Literature 3	General	1	Year	11
1069	AP English 4	AP	1.5	Year	12
1041	CP English 4	College Prep	1	Year	12
1042	General English 4	General	1	Year	12
1043	Theatre Arts	College Prep	.5	Semester	9-12
1045	Theatre Arts 2	College Prep	.5	Semester	9-12
1044	Literature of New England	College Prep	.5	Semester	11-12
1074	Writer's Workshop	General	.5	Semester	9-10
1050	Communications and Speech	College Prep	.5	Semester	11-12
1051	Film	College Prep	.5	Semester	11-12
1052	Modern American Culture	College Prep	.5	Semester	11-12
1053	Fantasy Literature	College Prep	.5	Semester	10-12
1054	Shakespeare	College Prep	.5	Semester	10-12
1055	Best Sellers	General	.5	Semester	11-12
1070	Different Worlds Through Literature	General	.5	Semester	9-10
1060*	Read 180-1	General	1	Year	9-10
1061*	Read 180 Elective	General	1	Year	9-10
1056*	Read 180-2	General	1	Year	10-12
1057*	Read 180-2 Elective	General	1	Year	10-12
1062	Journalism 1	College Prep	1	Year	10-12
1064	Journalism 2	Honors	1	Year	11-12
1071	General Creative Writing	General	.5	Semester	10-12
1072	CP Creative Writing	College Prep	.5	Semester	10-12
1073	Honors Creative Writing	Honors	.5	Semester	10-12
1736	Yearbook	College Prep	1	Year	11-12

*Enrollment in Read 180, Read 180-2 and English 1 Prep is by counselor placement only.

ENGLISH 1

Course Number: 1010
 Open To: Grade 9
 Prerequisites: None
 Weight: College Prep
 Duration/Credit: Year/1 Credit

This course helps develop the student's proficiency in a wide spectrum of language arts, grammar and reading skills for students. In literature, emphasis is placed upon expansion of knowledge of short story, poetry, drama, adventure, mystery and comedy. 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 write a thesis research paper. Students center their writing skills on the five paragraph essay.

HONORS ENGLISH 2

Course Number: 1020
 Open To: Grade 10
 Prerequisites: Top 20% rank in class; minimum grade of "B" in College Prep English 1.
 Recommendation by Grade 9 instructor and/or writing sample approved by instructor and/or department chair. Summer Reading.
 Weight: Honors
 Duration/Credit: Year/1 Credit
 PGR: #1 Education/Career Portfolio
 #6 Oral Communication
 #8 Response to Literature

This course is an accelerated and competitive program which is designed to refine analytical thinking and writing skills for students who have already exhibited precision, imagination, and competency in interpretation and response to literature. It offers a study of western literature, represented through classic examples of poetry, drama, 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 must submit revised drafts throughout the writing process of each major analytical essay and must write a major literary research paper.

CP ENGLISH 2

Course Number: 1021
 Open To: Grade 10
 Prerequisites: Completion of College Prep English 1, A/B average in General English 1 Recommendation of grade 9 instructor.
 Weight: College Prep
 Duration/Credit: Year/1 Credit
 PGR: #1 Education/Career Portfolio – 1.3 Occupation Information Summary Report
 #6 Oral Communication
 #8 Response to Literature

This course develops the student's ability to understand, discuss, and write critically about literature according to the study of the conventions of short story, novel, drama, and poetry. Composition stresses proper grammar and mechanics, refinement of structure and organization of critical essay writing. In addition to writing critical essays about each novel, each student will write a thesis research paper and write creatively. Students will be given opportunity to develop their skills in responding to literature and developing their skills both critically and analytically. Students will take part in class discussions as well as researching and presenting an oral speech.

GENERAL ENGLISH 2

Course Number: 1022
Open To: Grade 10
Prerequisites: Successful completion of English 1 and recommendation by Grade 9 instructor.
Weight: General
Duration/Credit: Year/1 Credit
PGR: #1 Education/Career Portfolio - 1.3 Occupation Information Summary Report
#6 Oral Communication
#8 Response to Literature

This course focuses on world literature, grammar, composition, and vocabulary. The conventions of the genres of essay, short story, novel, and drama are applied to the understanding of theme. In grammar, all aspects of clauses are studied. In composition, emphasis is placed on increased use of specific details and transitional devices in frequent written assignments which involve both the expression of personal viewpoints and the presentation of research information. Students will do an oral presentation for an audience of their peers.

HONORS ENGLISH 3

Course Number: 1030
Open To: Grade 11
Prerequisites: Recommendation of grade ten instructor, writing sample approved by instructor or department chair. Summer Reading.
Weight: Honors
Duration/Credit: Year/1 Credit
PGR: #1 Education/Career Portfolio – 1.4 College/School Summary Report
#6 Oral Communication
#8 Response to Literature

THE DEVELOPMENT AND ANALYSIS OF AMERICAN LITERATURE

Honors 3 is an accelerated and competitive program open to students who have exhibited superior ability in reading, sophistication in the use of language and are able to discern levels of meaning in language and literature. Students should be independent learners. The course is the study of selections of American literature ranging from the study of Native American Songs, Puritan writers, Transcendentalism, Romanticism and the contributions of twentieth century authors. The historical development of American literature, with a survey of selected poetry, drama, short story, essay and novel, serves as a basis for intensive class discussion, bi-weekly formal thesis essays, and a thesis research paper. Creative writing is stressed as a means by which students show 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 daily classroom discussions. Summer reading is a requirement.

CP AMERICAN LITERATURE 3

Course Number: 1033
Open To: Grade 11
Prerequisites: Recommendation by Grade 10 instructor
Weight: College Prep
Duration/Credit: Year/1 credit
PGR: #1 Education/Career Portfolio – 1.4 College/School Summary Report
#6 Oral Communication
#8 Response to Literature

THE DEVELOPMENT OF AMERICAN LITERATURE

This course is designed to enhance the student's ability to analyze, interpret, and respond to literature. The course focuses on students developing their own voice in both oral presentations and written expression. This course is typically 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, a thesis research paper, and develop creative writing skills. Students will research, write and deliver speeches as well as work in groups. They will develop higher level thinking skills in the process

GENERAL AMERICAN LITERATURE 3

Course Number: 1035
Open To: Grade 11
Prerequisites: Recommendation by Grade 10 instructor.
Weight: General
Duration/Credit: Year/1 Credit
PGR: #1 Education/Career Portfolio – 1.4 College/School Summary Report
#6 Oral Communication
#8 Response to Literature

THE AMERICAN EXPERIENCE

Students learn about American literature from Native Americans, Puritan/Colonial and 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 before the class. They will develop higher level thinking skills in the process.

AP / UCONN ENGLISH 4

Course Number: 1069
Open To: Grade 12
Prerequisites: Top 20% rank in class; grade of “C- or higher in Honors English 3 or grade of “B” or higher in College Prep English 3; writing sample; approval by Honors English instructor or English Department Chair.
Weight: Advanced Placement
Duration/Credit: Year /1.5 Credits (only 1 during the day, .5 during intervention; **4 credits English 111 at UCONN**)
PGR: #6 Oral Communication
#8 Response to Literature

According to the guidelines of the Early College Experience of the University of Connecticut and the College Board Advanced Placement English Program, Honors English has two emphases: first, a study of English composition through a review of the structure of language, reading, discussion, submission of bi-weekly essays, a research paper, and creative writing imitating theme and style of works read; and second, a study of selections of poetry, essay, drama, short story, novel, and literary criticism with an emphasis on classical tragedy and works of British origin. Literature is studied historically and comparatively with regard to theme, structure, character, narration, style and symbol where the student is given ample opportunity to demonstrate an individual critical approach and thematic understanding both in class discussion and composition. Students may earn four college credits in literature at the University of Connecticut. Students may take the AP examination in literature and composition for possible credit at schools other than the University of Connecticut. All Students who choose to go on to AP English must have completed UCONN English.

CP ENGLISH 4

Course Number: 1041
Open To: Grade 12
Prerequisites: Recommendation by Grade 11 instructor.
Weight: College Prep
Duration/Credit: Year/ 1 Credit
PGR: #1 Education/Career Portfolio – 1.7 Resume, Reference Sheet
#6 Oral Communication
#8 Response to Literature

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, essay, drama, short story, and 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: 1042
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
#6 Oral Communication
#8 Response to Literature

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 their interaction with a variety of genres through multi-media.

ENGLISH ELECTIVES

These classes are meant to enhance a student's learning experience beyond the standard English courses.

THEATRE ARTS & THEATRE ARTS 2

Course Number: 1043 (1045, Theatre Arts 2)
Open To: Grades 9-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/ .5 Credit each
PGR: #6 Oral Communication

This course is for the student interested in developing skills in the area of 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.

LITERATURE OF NEW ENGLAND

Course Number: 1044
Open To: Grades 11-12
Prerequisites: Successful completion of English 1030, 1033 or 1035
Weight: College Prep
Duration/Credit: Semester/.5 Credit
PGR: #6 Oral Communications
8 Response to Literature

In this course, students will make a closer examination of the works of Emerson, Thoreau, Hawthorne, Dickenson, Stowe, Frost and Jewett. The intent of the course will be to delve deeply into the transcendental philosophies and learn the correlation between the philosophers and their writings.

THE WRITER'S WORKSHOP

Course Number: 1074
Open To: Grades 9-10
Prerequisites: None
Weight: General
Duration/Credit: Semester/.5 Credit
PGR: #3 Persuasive Writing
#8 Response to Literature

In this course students will learn the principle parts of good writing. They will learn to develop a clear focus for their papers. They will delve into the development and organization of papers and go through the revision process to create a finished paper. In the writing workshop students will peer edit, conference with their teacher and learn to create different settings for their writings. Emphasis will be placed on the effective use of writing strategies. If you enjoy writing or want to learn better ways to improve writing, this is the course for you.

COMMUNICATIONS AND SPEECH

Course Number: 1050
Open To: Grades 11-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit
PGR: #6 Oral Communication

Students will come to understand the role of effective communication in a variety of contexts from real-life situations which include group interactions, interpersonal relationships, interviewing, conflict resolution, and formal speaking and debating. In order to be successful in this class, students must organize ideas and materials for both written and oral presentations and take an active part in the regular delivery of oral presentations in front of their peers. When appropriate, or as circumstances arise, students may be required to speak before the general public. The class is participatory in nature and students must be willing to become involved in the communications process.

FILM: HOW IT AFFECTS A CHANGING CULTURE

Course Number: 1051
Open To: Grades 11-12
Prerequisites: Completion of English 1020, 1021 or 1022
Weight: College Prep
Duration/Credit: Semester/.5 Credit
PGR: #6 Oral Communications
#7 Reading for Information

Students will come to understand the role of film through a variety of genres which will show how film affects and reflects a changing culture. An historical approach will be taken in looking at various genres of film which will include film noir, The Silent Era, Busby Berkley musicals, Post-World War II Idealism, the rise of the anti-hero, revolutionary 60's, reactionary 70's and the self-indulgence of the 80's transitioning into the re-immersion of the big budget musical, and the morality and conflicts of the New Millennium. Students will be required to view, assess and critique all genres, and be able to apply parallels, comparisons and contrast to the culture in which they live.

MODERN AMERICAN CULTURE

Course Number: 1052
Open To: Grade 11-12
Prerequisites: Successful completion of English 1030, or 1033 and 1034 or completion of 1035 and 1036
Weight: College Prep
Duration/Credit: Semester/.5 Credit
PGR: #8 Response to Literature

This course is designed to enhance students' understanding of American literature written after 1945. The course focuses on the themes and controversies in the writings of culturally diverse writers of the 20th and 21st centuries. Students will experience the cultural growth and contemporary issues of America as seen through the eyes of men and women of these times. This course is centered on analyzing the literature of modern authors as well as the contextual and social implications of the pieces. Writings will question the roles society expects students to assume. Students will analyze behaviors and values of the present time. Can young people live freely, according to their own values and desires rather than those values placed upon them by other people? Authors may include the following: Amy Tan, Maya Angelou, Myla Goldberg, Lanford Wilson Ann Tyler, Bernard Malamud, Alice Walker and Ralph Ellison.

FANTASY LITERATURE

Course Number: 1053
Open To: Grades 10-12
Prerequisites: Completion of English 1011
Weight: College Prep
Duration/Credit: Semester/ .5 Credit
PGR: #6 Oral Communication

In this course, students will study modern fantasy from its British beginning to its contemporary representations through the reading and analysis of significant works in the genre of fantasy literature. Students will also develop an understanding of the conventions of fantasy genre. Readings may include The Hobbit, The Lion, The Witch and the Wardrobe, A Spell for Chameleon, A Wizard of Earthsea, The Golden Compass and The Gunslinger.

SHAKESPEARE, THE BARD

Course Number: 1054
Open To: Grades 10-12
Prerequisites: Completion of English 1011
Weight: College Prep
Duration/Credit: Semester/ .5 Credit
PGR: #3 Response to Literature

Students will study the works of William Shakespeare through the reading and analysis of text from major bodies of works including some, or all, of the following areas: comedy, history, tragedy and poetry. Students will also learn about the writing conventions of Shakespeare's language and relate Elizabethan times with Modern times.

BEST SELLERS

Course Number 1055
Open To: Grades 11-12
Prerequisites: Completion of English 1030, 1033, or 1035
Weight: General
Duration/Credit Semester/.5 Credit
PGR: #6 Oral Communications
#7 Reading for Information
8 Response to Literature

Students will be introduced to the modern novels that are popular currently as is evidenced from the books appearing on the New York Times Best Seller List. The course is created to instill an appreciation for modern literature and to have students develop a critical eye as they learn about current and relative issues as presented in the modern novel. Students will learn what critics see as relevant topics in today's society. Modern themes will be emphasized which will inspire students to read independently as they find their own place in the world today.

DIFFERENT WORLDS THROUGH LITERATURE

Course Number: 1070
Open to: Grades 9-10
Prerequisites: None
Weight: General
Duration/Credit: Semester/.5 Credit

Have you ever wondered what it would be like to be forced to live in a land that gives you little freedom? How would you like to devote yourself to making a better world? If you only had a few months to live, what would you do? These questions and many more will be discussed in this course as students delve into cultures of people living in different worlds. The books read in the class lend themselves to personal connections and help students understand the differences and similarities of people living in varied cultures.

READ 180-Part 1

Course Number: 1060 & 1061, Must sign up for both
Open to: Grade 9-10
Prerequisites: Placement by School Counselor or English Department Chair
Weight: General
Duration/Credit: All Year- Every Day/2 credits
PGR: #7 Reading for Information
#8 Response to Literature

Performance on specific reading assessments will determine placement in this course. The course provides an intensive reading intervention program designed to meet the needs of students whose reading achievement is below the proficient level. The program directly addresses individual needs through adaptive and instructional software, high-interest literature, and direct instruction in reading and writing skills. This course will be taken along with English 1 or English 2 depending upon the year of the student. The course provides intense instruction and practice with the final goal of taking and mastering up to four of the literacy-based PGRs. Students are introduced to selections of world literature as well as nonfiction reading. 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, their interaction with a variety of genres through multi-media.

READ 180- Part 2

Course Number: 1056 & 1057, Must sign up for both
Open to: Grade 10-11
Prerequisites: Placement by School Counselor or English Department Chair. Successful completion of Read 180-part 1
Weight: General
Duration/Credit: All Year- Every Day/2 credits
PGR: #7 Reading for Information
#8 Response to Literature

This course is a continuation of the Scholastic Read 180 Program. The course is created to provide continued support to students who need intervention in reading, writing and speaking. The course is designed to continue the development of skills in students whose achievement in reading falls below the proficient level. The program is individualized to meet each student's specific needs. Performance on specific reading assessments will determine placement in this course. The course provides an intensive reading intervention program designed to meet the

needs of students whose reading achievement is below the proficient level. The program directly addresses individual needs through adaptive and instructional software, high-interest literature, and direct instruction in reading and writing skills. This course will be taken along with English 2,3,4 depending upon the year of the student.

JOURNALISM 1

Course Number: 1062
Open To: Grades 10-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Year/ 1 Credit
PGR: #3 Persuasive Argument

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

JOURNALISM 2

Course Number: 1064
Open To: Grades 11-12
Prerequisites: Successful Completion of Journalism 1
Weight: Honors
Duration/Credit: Year/1 Credit

This course is an extension of Journalism (1062). 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.

CREATIVE WRITING

Course Number: 1073 - Honors Independent Study
1072 – College Prep
1071 – General
Open to: Grades 10-12
Prerequisites: None
Weight: Honors, College Prep, General
Duration/Credit: Semester/.5 Credit

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 has a five part structure: an introduction and creative process, showing ways of harnessing the unconscious and building a daily discipline. This is followed by demonstration and practice of the three most popular forms, writing fiction, writing poetry and life writing.

YEARBOOK

Course Number: 1736
Open To: Grades 11-12
Prerequisite: None
Weight: College Prep
Duration/Credit: Year/1 Credit

Yearbook is a course open to seniors and juniors who are interested in leadership positions during their senior year. As part of the Yearbook team, you will learn and practice journalism, photography, computer page layout,

budgeting, marketing, teamwork, and leadership. The team of students who will represent KHS may meet for extended hours after school if necessary during eight weeks of the year to meet publishing deadlines. Students must fill out an application and receive approval from the advisor. Yearbook does not count as an English credit.

FAMILY & CONSUMER SCIENCE DEPARTMENT

<i>Course #</i>	<i>Title</i>	<i>Level</i>	<i>Credit</i>	<i>Duration</i>	<i>Grade</i>
1502	Child Development 1	College Prep	.5	Semester	10-12
1503	Child Development 2	College Prep	.5	Semester	10-12
1506	Early Childhood Education	College Prep	1	Year	10-12
1510	Foods 1 Foods and Nutrition	General	.5	Semester	9-12
1512	Foods 2: National and International Foods	General	.5	Semester	9-12
1515	UCONN HDFS 1070: Introduction to Individual and Family Development	ECE	1	Year	11-12

CHILD DEVELOPMENT 1

Course Number: 1502
 Open To: Grades 10-12
 Prerequisite: None
 Weight: College Prep
 Duration/Credit: Semester/.5 Credit
 PGR: #6 Oral Communication

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 childhood, parenthood, pregnancy, prenatal care, labor and delivery. Students participate in a variety of learning experiences, class discussions, projects, homework, tests, Baby Think It Over/Real Care Baby Experience, field trips and guest speakers, infant and toddler observations. A field trip to Day Kimball Hospital's Birthing Center may be part of the course.

CHILD DEVELOPMENT 2

Course Number: 1503
 Open to: Grades 10-12
 Pre-requisite: "B" or better in Child Development 1
 Weight: College Prep
 Duration: Semester/.5 credit
 PGR: #6 Oral Communication

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 infancy (toddler hood) and four to six (preschoolers.) Students participate in a variety of learning experiences, class discussions, projects, homework, tests, field trips and guest speakers. Students will conduct observations on toddlers and preschoolers in relation to developmental milestones. Students may plan chapter lessons and "team teach" throughout the course.

EARLY CHILDHOOD EDUCATION

Course Number: 1506
 Open To: Grades 11-12
 Prerequisite: Grade of “B” or better in Child Development 1 and 2
 Weight: College Prep
 Duration/Credit: Year/1 Credit
 PGR: #6 Oral Communication

Quinebaug Valley Community College – College Career Pathway Program college credit is available for this course. The focus of the course is on 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). Students are responsible for observing, planning, directing and evaluating age appropriate activities for the children enrolled in the Goodyear Center classrooms, Head Start, Care Lot Children’s Center, Killingly Memorial School, and Killingly Central School. Learning experiences also include class discussions, projects, field trips, homework, tests, and guest speakers.

FOODS 1: FOODS AND NUTRITION

Course Number: 1510
 Open To: Grades 9-12
 Prerequisites: None
 Weight: General
 Duration/Credit: Semester/.5 Credit
 PGR: #7 Reading for Information

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 the mypyramid.gov website.

FOODS 2: NATIONAL AND INTERNATIONAL FOODS

Course Number: 1512
 Open To: Grades 9-12
 Prerequisites: Grade of “C” or better in Foods
 Weight: General
 Duration/Credit: Semester/.5 Credit
 PGR: #7 Reading for Information

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. A field trip to Johnson & Wales University will be part of this course. The course includes class discussion, homework, demonstrations, tasting labs and cooking labs.

**UCONN HDFS 1070: INTRO TO INDIVIDUAL AND FAMILY DEVELOPMENT
NOT BEING OFFERED IN THE 2011/2012 SCHOOL YEAR**

Course Number: 1515
 Open To: Grades: 11 -12
 Prerequisite: Grade of “B” or better in Child Development 2 OR Teacher Approval
 Weight: ECE
 Duration/Credit: Year/1 Credit

This course is for students who are interested in nursing, social work or the education field. The University of Connecticut Cooperative Program provides an opportunity for academically talented high school students to take a first year university course in the high school setting. UConn credit is earned if students complete all course expectations and earn a grade of “C” or better. The course is an Introduction to the field of Human Development and

Family Science. This course will provide students with an understanding of individual and family development over the life span. The course includes 40 hours of field experience with young children, middle childhood and older adults. Site visits include Westview Health Center, The Village at Killingly, Killingly Intermediate and Memorial Schools.

MATHEMATICS DEPARTMENT

<i>Course #</i>	<i>Title</i>	<i>Level</i>	<i>Credit</i>	<i>Duration</i>	<i>Grade</i>
1115	Algebra 1A - F	General	1	Year	9
1121	Foundations of Math 1	General	1	Year	10-12
1122	Foundations of Math 2	General	1	Year	10-12
1123	Essentials of Geometry	General	1	Year	10-12
1127	Math for Daily Living 1	General	.5	Semester	11-12
1128	Math for Daily Living 2	General	.5	Semester	11-12
1125	Essentials of Algebra 2	General	1	Year	11-12
1126	Consumer Math	General	1	Year	11-12
1140	College Prep Algebra 1 - F	College Prep	1	Year	9
1141	College Prep Algebra 1	College Prep	1	Year	10-12
1143	College Prep Algebra 2	College Prep	1	Year	10-12
1142	College Prep Geometry	College Prep	1	Year	10-12
1145	College Prep Geometry - F	College Prep	1	Year	9
1151	Discrete Mathematics	College Prep	1	Year	11-12
1152	Trigonometry	College Prep	1	Year	11-12
1154	College Calculus	Honors	1	Year	11-12
1161	Honors Algebra 2	Honors	1	Year	9-12
1166 & 1167	Honors Geometry/Pre-Calculus	Honors	1.5	Year	10-12
1171 & 1172	AP Calculus AB	AP	1.5	Year	11-12
1173 & 1174	AP Calculus BC	AP	1.5	Year	11-12
1640	Accounting 1	College Prep	1	Year	10-12
1157	Math Leadership	College Prep	1	Year	12

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. A score of 3 or higher on the mathematics portion of the CAPT will meet the PGR #4 requirement: Numeric Problem Solving.

ALGEBRA 1A

Course Number: 1115
 Open To: Grade 9
 Prerequisite: None
 Weight: General
 Duration/Credit: Year/1 Credit

This course is designed for the students who have struggled and need a more moderate pace in an Algebra 1 course. The content covered is equivalent to the first half of College Prep Algebra 1. Topics include operations on signed numbers and algebraic expressions, solving equations in one variable and graphing linear functions. An introduction to the use of the TI-family calculator will also be incorporated into this course.

FOUNDATIONS OF MATH 1

Course Number: 1121
 Open To: Grades 10-12
 Prerequisites: None
 Weight: General
 Duration/Credit: Year/1Credit

This course reviews fundamental math skills and introduces basic algebra and geometry skills. These skills are applied to problem solving throughout the course. *This course is offered only to students who did not meet success in grade 9.*

FOUNDATIONS OF MATHEMATICS 2

Course Number: 1122
 Open To: Grades 10-12
 Prerequisites: Math course no higher than Foundations of Mathematics 1
 Weight: General
 Duration/Credit: Year/1 Credit

This course is an extension of the Foundations of Mathematics 1 course, with emphasis on higher level algebra and geometry skills. These skills are applied through problem solving throughout the course. It is imperative that the prerequisite for this course be met prior to placement.

ESSENTIALS OF GEOMETRY

Course Number: 1123
 Open To: Grades 10-12 (Closed to students who have passed CP Geometry)
 Prerequisites: Foundations of Math 2 or College Prep Algebra 1
 Weight: General
 Duration/Credit: Year/1 Credit

Students learn the principles of geometry without emphasis on proofs. Students must have a good basic math background. This course is not a substitute for the requirement for College Prep Algebra 2.

ESSENTIAL OF DAILY LIVING 1 & 2

Course Number: 1127 Fall / 1128 Spring (Must register for both sections)
 Open To: Grades 11-12
 Prerequisites: Two previous credits in math
 Weight: General
 Duration/Credit: Semester per section/.5 Credit
 PGR: #4 Numeric Problem Solving

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 every day life. A final grade of "C" or higher will meet the PGR #4 (Numeric Problem solving) requirement.

ESSENTIALS OF ALGEBRA 2

Course Number: 1125
 Open To: Grades 11-12
 Prerequisites: Geometry (CP or Essentials)
 Weight: General
 Duration/Credit: Year/1 Credit

This course is designed for students who have experienced difficulty with College Prep Algebra 1 and Geometry.

Topics are similar to those covered in College Prep Algebra 2 but will not be equivalent to the College Prep Algebra 2 experience.

CONSUMER MATH

Course Number: 1126
Open To: Grades 11-12
Prerequisites: 2 previous credits in Math AND Department Chair approval
Weight: General
Duration/Credit: Year/1 Credit

This course will cover basic life skills such as consumer economics, banking and checkbook accounting, car loans, family budgeting and housing expenses. Mathematical computation and problem solving skills are improved through the use of real-world math situations found in everyday life. A final grade of “C” or higher will meet PGR #4 (Numeric Problem Solving) requirements.

COLLEGE PREP ALGEBRA 1

Course Number: 1140-F Grade 9, 1141 – Grades 10 - 12
Open To: Grades 9-12
Prerequisite: None
Weight: College Prep
Duration/Credit: Year/1 Credit

This course is designed as a formal study of the set of real numbers, their field properties, operations and applications. Topics include graphing, sets, formulas, functions, equations, inequalities, operations on polynomials, factoring and radicals. An introduction to the use of the TI-family calculator will also be incorporated into this course.

COLLEGE PREP GEOMETRY

Course Number: 1145 Grade 9, 1142 – Grades 10 - 12
Open To: Grades 9-12
Prerequisites: College Prep Algebra 1
Weight: College Prep
Duration/Credit: Year/1 Credit

This course is designed to provide students the opportunity to work with and further develop their ability to comprehend the language of mathematics. Emphasis is placed on coordinate and transformational approaches, the developing of short sequences of theorems, and expressing deductive arguments both orally and written. Students are introduced to the study of the properties of various geometric figures such as triangles, circles, rectangles, 3-D Geometry and modeling.

COLLEGE PREP ALGEBRA 2

Course Number: 1143
Open To: Grades 10-12
Prerequisites: College Prep Geometry
Weight: College Prep
Duration/Credit: Year/1 Credit

This course is designed as a continuation of the study of the set of real numbers and their operations begun during College Prep Algebra 1. Emphasis is placed upon linear, quadratic, and polynomial equations.

DISCRETE MATHEMATICS

Course Number: 1151
Open To: Grades 11-12
Prerequisites: College Prep Geometry and College Prep Algebra 2
Weight: College Prep
Duration/Credit: Year/1 Credit

This course is designed for students whose college program does not require Trigonometry and Calculus. This is an elective math course for students who have passed College Prep Algebra 2 and College Prep Geometry. Since most students are required to take at least one math course in college, it is important for students to take a course after Algebra 2 and Geometry and investigate their college's math requirements prior to enrolling in this course. Topics covered may include logic, algebra of sets, functions, vectors, matrices, probability, inequalities, points, lines, mathematical finance, linear programming, and game theory.

TRIGONOMETRY

Course Number: 1152
Open To: Grades 10-12
Prerequisites: College Prep Geometry and College Prep Algebra 2
Weight: College Prep
Duration/Credit: Year/1 Credit

This course is a prerequisite for Calculus. It begins with a brief review of essential algebra and geometry skills. The main concepts covered are circular functions and their applications, inverses of circular functions, trigonometric functions and equations, and proof of identities for both circular and trigonometric functions.

COLLEGE CALCULUS

Course Number: 1154
Open To: Grades 11-12
Prerequisites: Trigonometry or Honors Pre-Calculus
Weight: Honors
Duration/Credit: Year/1 Credit

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 main focus of the course will be on differentiation and integration. See topics covered in AP Calculus AB description.

HONORS ALGEBRA 2

Course Number: 1161
Open To: Grades 9-12
Prerequisites: CP Algebra 1
Weight: Honors
Duration/Credit: Year/1 Credit

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. In addition to covering the College Prep Algebra 2 content in detail, this course also focuses on exponential and logarithmic functions. Students will use graphing calculators to solve problems throughout the entire course. Appropriate problem solving utilizing the TI-84+ Graphing Calculator will be integrated.

HONORS GEOMETRY / PRE-CALCULUS

Course Number: 1166
 Open To: Grades 10-12
 Prerequisites: Honors Algebra 2
 Weight: Honors
 Duration/Credit: Year/1.5 Credits

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 Honors Algebra 2. Throughout both of these 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 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: 1171 & 1172 (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)

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. Some topics covered are 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 covered 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: 1173 & 1174 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)

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.

ACCOUNTING 1

Course Number: 1640
 Open To: Grades 10-12
 Prerequisites: 2 previous credits in Math or concurrent with a 2nd math course.
 Weight: College Prep
 Duration/Credit: Year/1 Credit
 PGR: #4 Numeric Problem Solving

This course may be taken for one math credit. A final grade of "C" or higher will meet the PGR #4 (Numeric Problem Solving) requirements. For a complete course description, see the write-up in the Business and Computer Science section of this booklet.

MATHEMATICS LEADERSHIP

Course Number: 1157
 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

<i>Course #</i>	<i>Title</i>	<i>Level</i>	<i>Credit</i>	<i>Duration</i>	<i>Grade</i>
1757	History of Popular Music	College Prep	.5	Semester	9-12
1766	CP Symphonic Winds	College Prep	1	Year	9-12
1771	Honors Symphonic Winds	Honors	1	Year	9-12
1768	CP Percussion Ensemble	College Prep	1	Year	9-12
1770	Honors Percussion Ensemble	Honors	1	Year	9-12
1767	CP Marching Band	College Prep	.5	Semester	9-12
1765	Honors Marching Band	Honors	.5	Semester	9-12
1792	CP Music History	College Prep	.5	Semester	11-12
1796	CP Music Theory	College Prep	.5	Semester	10-12
1782	CP Concert Chorale	College Prep	1	Year	9-12
1784	Honors Concert Chorale	Honors	1	Year	9-12
1786	CP Women's Choir	College Prep	1	Year	9-12
1788	Honors Women's Choir	Honors	1	Year	9-12
1789	AP Music Theory	AP	1.5	Year	11-12
1772	Introduction to Guitar	General	.5	Semester	9-12
1774	Guitar 2	General	.5	Semester	9-12
1780	Vocal Fundamentals	General	.5	Semester	9-12
1785	Vocal Fundamentals 2	General	.5	Semester	9-12
1798	Music Technology	College Prep	.5	Semester	9-12
1759	Music Technology 2	College Prep	.5	Semester	9-12

Music Department Educational Travel Statement

The Killingly High School Music Department will travel to a destination in either New England or the Mid-Atlantic region during some or all 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 excursions that support the academic, social and civic mission of our high school. Students who enroll in CP Symphonic Winds/Honors Symphonic Winds, CP Percussion Ensemble/Honors Percussion Ensemble, CP Concert Chorale/Honors Concert Chorale, CP

Women's Choir/Honors Women's Choir, CP Marching Band, and/or Jazz Band/JIVE Chamber Choir (non-credit, auditioned ensembles) will be strongly encouraged to participate in any spring semester performance excursion.

With the assistance of the *Big Red Music Boosters, Inc.*, 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 the severity of the economic downturn, the music department will keep the cost of the excursion between \$200 (Berklee Jazz Year) and \$1200 (Disney year) per child. A trip commitment form and fee schedule is issued to each student/family in September. Fees are generally collected in October, December/January and late February in order to meet travel company deadlines. KHS Music Department has traditionally used Perkins Travel Corps, New Britain, CT, for all its travel needs. Questions may be directed to Pam Rodgers by sending correspondence to proddgers@killinglyschools.org.

HISTORY OF POPULAR MUSIC

Course Number: 1757
Open To: Grades 9-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit

This course will explore the history of popular music from its African roots to the present day. Students will learn about periods of jazz, music of the rock and roll era, and other styles through the mid 1990's. Various recordings, videos, and media resources will enhance class lectures to bring this style of music to life. No previous musical experience is required.

CP CONCERT CHORAL/HONORS CONCERT CHORAL

Course Number: 1782 CP/1784 Honors
Open To: Grades 9-12
Prerequisites: Placement by Instructor
Weight: CP/Honors
Duration/Credit: Year/1 Credit

Large mixed ensemble develops vocal skills while learning and performing SATB music from any of the following categories: Contemporary, Classical, Renaissance, Baroque, Romantic, Popular, Religious, and American Spirituals. There are two to four required and memorized evening and/or daytime concerts per year. Fundamentals of vocal production and music reading are taught and stressed. Music vocabulary is taught and tested. Students are required to learn and improve upon their sight-singing skills. Music literacy is heavily encouraged to develop vocal independence. Enrolled students must demonstrate a positive attendance record.

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 instructor approved by the choral director (worth 2 of 4 requirements)
2. Active participation in JIVE (full year)
3. Audition for Regional and NEMFA music festivals (1st semester)
4. Admission/participation in Eastern Region Chorus (1st semester)
5. Admission/participation in All-State Chorus and/or New England Chorus (2nd semester)

6. Participate/perform in community, church, choral ensembles (1st, 2nd, or both semesters)
7. Organize/administer 1st year vocabulary quizzes (full year)
8. Write a paper and provide oral program notes in concert (1st, 2nd, or both semesters)

CP SYMPHONIC WINDS/HONORS SYMPHONIC WINDS

Course Number: 1766 CP, 1771 Honors
 Open To: Grades 9-12
 Prerequisites: Placement by Instructor
 Weight: CP/Honors
 Duration/Credit: Year/1 Credit

Symphonic Winds will perform, on band instruments, a varied repertoire of music from the band traditions of 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)
2. Play in a small ensemble (1st and/or 2nd semester)
3. Section leader (1st semester only)
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 KIS students every week at KIS (1st and 2nd semester)

CP PERCUSSION ENSEMBLE/HONORS PERCUSSION ENSEMBLE

Course Number: 1768 CP, 1770 Honors
 Open To: Grades 9-12
 Prerequisites: Placement by Instructor
 Weight: CP/Honors
 Duration/Credit: Year/1 Credit

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. 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 will be obtained through Gerry's Music; the school provides a limited number of large instruments for students' use.

- Drum Pad with stand - SUGGESTED
- Vic Firth SD1 or SD2 concert snare sticks - REQUIRED
- Vic Firth general timpani, xylophone, and yarn marimba mallets - OPTIONALS
- Vic Firth stick bag - SUGGESTED

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)
2. Playing in a small ensemble (1st and/or 2nd semester)
3. Section leader (1st semester only)
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 KIS students every week at KIS (1st and 2nd semester)

MARCHING BAND

Course Number: CP 1767 / Honors 1765
 Open To: Grades 9-12
 Prerequisites: None
 Weight: CP/Honors
 Duration/Credit: Semester/.5 Credit

August – November 2011, 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 (arts credit)*

Large instrumental ensemble with auxiliary groups prepares field show 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) once per week. Schedule woodwinds, brass 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 5:45-8:00 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 4:45 and ending at 5:30 pm.
- All parades.
- All band competitions and/or special performances on four or five Saturdays in September and October. All performances are preceded by full band rehearsal. Students' time commitment on competition days varies. Most rehearsals begin after 12:30 pm in order to accommodate for driving classes and SATs.

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 meal times are not included in instructional/class time. In addition to attendance, playing tests, drill tests, routine/choreography tests, and maintenance of course materials (equipment, flip folders, drill folders, notebooks, dot books, etc.) will be graded.

There is an annual Marching Band fee for all members. The fee covers incidental supplies, show shirt, and medal show adjudicators. Students who do not have band gloves or shoes are responsible for the purchase of these goods. Shoes and gloves are no more than \$30 for students who need them. Generally, upper classmen have shoes and gloves from previous years. Other fees may be incurred depending on the competitions and events for the season (incidental supplies, show shirt, medal show adjudicators, 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.

CP MUSIC THEORY

Course Number: 1796
Open To: Grades 10-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit

This course is designed for students who are interested in composing/writing music of any style. Additionally, students who study private voice, private piano, private guitar, or class guitar are encouraged to take this course as a means to further their musical knowledge and or possibly prepare for a college minor or major in music. The curriculum will include reading and notating music in its most basic forms. CP Music Theory includes ear training (intervals, scales, chords, rhythmic, melodic and harmonic dictation, sight-reading), writing and analysis of major/minor keys and key signatures, intervals, chordal theory, 2-part music writing (organum and counterpoint), and basic listening techniques are covered. The curriculum will be covered traditionally as well as through the use of our new music technology lab. CP Music Theory may serve as the pre-requisite course for AP Music Theory.

AP MUSIC THEORY

Course Number: 1789
Open To: Grades 11-12
Prerequisites: Placement by Instructor
Weight: AP
Duration/Credit: Year/1.5 Credits (1 credit during the day, .5 during intervention)

This course is designed to help prepare the student for a possible college major in music. Music Theory, inclusive of ear training (intervals, scales, chords, rhythmic, melodic and harmonic dictation, sight-seeing), writing and analysis of major/minor keys and key signatures, intervals, chordal theory, 4-part music writing, and sophisticated listening techniques are covered. Students with a background in instrumental or vocal music who are contemplating pursuing further musical study at the college level are urged to enroll in this course. This prepares students to take the (required) Advanced Placement test in the spring.

CP MUSIC HISTORY

Course Number: 1792
Open To: Grades 11-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit

This course is designed to help prepare the student for a possible college major in music. Music history from ancient Greece to the present will be surveyed. This will include studying the cultural significance, major composers and compositions, form/structure, and musical nuances of all various musical genres. Students with a background in instrumental or vocal music who are contemplating pursuing further musical study at the college level are urged to enroll in this course.

INTRODUCTION TO GUITAR

Course Number: 1772
Open To: Grades 9-12
Prerequisites: Ownership of a non-electric guitar and guitar case
Weight: General
Duration/Credit: Semester/.5 Credit

This class is offered for students wishing to learn the basics of guitar maintenance and playing, inclusive of chords (various strums), melody playing (a precursor to playing leads), and music literacy (reading and writing music notation). Students will be expected to own and be able to safely transport their instruments in a guitar case to and from KHS daily for the duration of the course. Home practice is required. As an introductory class to this instrument, music literature is traditional rather than contemporary. However, students should be able to use their experience from this class by applying it to other music styles of their choice.

GUITAR 2

Course Number: 1774
Open To: Grades 9-12
Prerequisites: Ownership of a non-electric guitar and guitar case, Guitar 1
Weight: General
Duration/Credit: Semester/.5 Credit

This course follows Introduction to Guitar. Students will be expected to own and be able to safely transport their instruments in a guitar case to and from KHS daily for the duration of the course. Home practice is required. Students will be exposed to a greater variety of musical styles including finger picking an advanced strums, as well as bass string reading and playing.

VOCAL FUNDAMENTALS & VOCAL FUNDAMENTALS 2

Course Number: 1780 (1785, Vocal Fundamentals 2)
Open To: Grades 9-12
Prerequisites: None
Weight: General
Duration/Credit: Semester/.5 Credit each

This singing course is open to inexperienced/experienced singers wishing to develop and enhance their vocal skills. Students will learn basic vocal production beginning with proper breathing techniques and vowel placement. Students will sing solo material both of their own choosing and the instructor's

choosing, to improve on the individual student's singing abilities. Performance technique is addressed and video taping is used for assessment. Vocal Fundamentals will focus on basic singing technique over public performance. Singing alone (and with others) is the main focus in this class. This class may be repeated for credit.

MUSIC TECHNOLOGY

Course Number: 1798
Open To: Grades 9-12
Prerequisites: None
Weight: CP
Duration/Credit: Semester/.5 Credit

The purpose of this course is to create musical compositions using computer hardware (MIDI Keyboards, Interfaces, Sound Modules, Mixers, CPU) and software (MIDI/Audio Digital Sequencing program). Students' will analyze and evaluate their compositions, learning compositional techniques, and gaining understanding of a Digital Audio Workstation. 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.

MUSIC TECHNOLOGY 2

Course Number: 1759
Open To: Grades 9-12
Prerequisites: None
Weight: CP
Duration/Credit: Semester/.5 Credit

This course will explore more advanced topics in music technology and will concentrate on "Real World" applications. Students will be presented with a number of creative assignments utilizing software programs like Garage Band, Band in a Box, Aurelia, 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. 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/theatre/multimedia presentations). The course works well as an elective for a Career Pathway in Music.

PHYSICAL EDUCATION AND HEALTH DEPARTMENT

<i>Course #</i>	<i>Title</i>	<i>Level</i>	<i>Credit</i>	<i>Duration</i>	<i>Grade</i>
1910	PE 1 Male	General	.5	Semester	9-10
1911	PE 1 Female	General	.5	Semester	9-10
1920	PE 2 Male	General	.5	Semester	9-10
1921	PE 2 Female	General	.5	Semester	9-10
1930	PE 3 Male	General	.5	Semester	11-12
1931	PE 3 Female	General	.5	Semester	11-12
1940	Adaptive Physical Education	General	.5	Semester	9-12
1943	Body Management Male	General	.5	Semester	9-12
1944	Body Management Female	General	.5	Semester	9-12
1945	Health	General	.5	Semester	9-12
1950	Physical Education Leadership	College Prep	.5	Semester	11-12
1952	Physical Education Leadership 2	College Prep	.5	Semester	11-12
1955	Careers in Health	Honors	1	Year	11-12
1957	Athletic Strength and Conditioning	General	.5	Semester	10-12

PHYSICAL EDUCATION (PE 1)

Course Number: 1910 Male, 1911 Female
 Open To: Grade 9-10
 Prerequisites: None
 Weight: General
 Duration/Credit: Semester/.5 Credit

This course emphasizes cooperative game activities and increasing overall fitness. This course covers the following activities: Running, Strength and Flexibility, Project Adventure, Fitness Testing, Soccer, Field Hockey, Softball, Track and Field, Flag Football, Tennis, Basketball, Volleyball, Dancing, Wrestling, Self-Defense, and Power Walking.

PHYSICAL EDUCATION (PE 2)

Course Number: 1920 Male, 1921 Female
 Open To: Grade 9-10
 Prerequisites: None
 Weight: General
 Duration/Credit: Semester/.5 Credit

This course emphasizes team sports, introduction to lifetime activities and increasing overall fitness. This course covers the following activities: Running, Strength and Flexibility, Project Adventure, Fitness Testing, Archery, Ultimate Frisbee, Ultimate Football, Lacrosse, Flag Rugby, Pickleball, Badminton, Cardio Kick Boxing, Step Aerobics, Circuit Training, Weight Training, Yoga, Relaxation, Floor Hockey, Indoor Team Handball, Orienteering and Volleyball.

PHYSICAL EDUCATION (PE 3)

Course Number: 1930 Male, 1931 Female
 Open To: Grade 11-12
 Prerequisites: PE 1 & PE 2
 Weight: General
 Duration/Credit: Semester/.5 Credit

This course emphasizes engagement in activities at a higher level, a further introduction to lifetime activities and increasing overall fitness. Students select eight activities over the course of the semester in team games, cooperative

games and individual games. This course also includes a mandatory health issues block that allows students to continue their studies in substance abuse through the legal court process.

ADAPTIVE PHYSICAL EDUCATION

Course Number: 1940
Open To: Grades 9-12
Prerequisites: Placement by PPT and/or Administration
Weight: General
Duration/Credit: Semester/.5 Credit

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

BODY MANAGEMENT

Course Number: 1943 Male / 1944 Female
Open To: Grades 9-12
Prerequisites: None
Weight: General
Duration/Credit: Semester/.5 Credit

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 each class. This course is geared towards students with an interest in weight management and proper nutrition.

HEALTH

Course Number: 1945
Open To: Grade 9-12
Prerequisites: None
Weight: General
Duration/Credit: Semester/.5 Credit

The course is designed to introduce students to a variety of health topics. This course covers the following topics: Personal Health, Mental Health, Family Issues, Sex Education, Safe Dates, Medical Conditions, Nutrition and Substance Abuse.

PHYSICAL EDUCATION LEADERSHIP & PHYSICAL EDUCATION LEADERSHIP 2

Course Number: 1950 (1952, PE Leader 2)
Open To: Grade 11-12
Prerequisites: PE 1, PE 2, PE 3 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 apply 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 and a leadership research paper.

CAREERS IN HEALTH

Course Number: 1955
 Open To: Grades 11-12
 Prerequisites: None
 Weight: Honors
 Duration/Credit: Year/1 Credit

This course is associated with the Career Pathway Program. This course is designed to introduce students to occupations associated with Allied Health such as nursing, exercise physiology, physical therapy, pediatrics, pulmonary specialists, dietician, anesthesiologist, and more. Students interested in taking this class should have a profound interest in health careers.

ATHLETIC STRENGTH AND CONDITIONING

Course Number: 1957
 Open To: Grades 10-12
 Prerequisites: PE1, PE 2 and Must be Approved by Department Coordinator
 Weight: General
 Duration/Credit: Semester/.5

This is an elective course that does not replace PE 1 and PE 2. 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 class has an intense focus on weight training and running. The course will also introduce students to proper nutrition, 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.

SCIENCE DEPARTMENT

<i>Course #</i>	<i>Title</i>	<i>Level</i>	<i>Credit</i>	<i>Duration</i>	<i>Grade</i>
1310	Science	College Prep	1	Year	9
1366 & 1367	AP Biology	AP	1.5	Year	11-12
1321	Honors Biology w/ Lab	Honors	1	Year	10
1322	CP Biology w/ Lab	College Prep	1	Year	10
1324	General Biology	General	1	Year	10
1326	Human Biology	General	1	Year	11-12
1368 & 1369	AP Chemistry	AP	1.5	Year	11-12
1331	Honors Chemistry	Honors	1	Year	11-12
1332	CP Chemistry w/ Lab	College Prep	1	Year	11-12
1333	Chemistry in the Community	General	1	Year	11-12
1335	Laboratory Chemistry	General	.5	Semester	11-12
1340	Forensics	General	1	Year	11-12
1350	Honors Physics 1	Honors	1	Year	11-12
1351	CP Physics w/ Lab	College Prep	1	Year	10-12
1352	AP Physics	AP	1.5	Year	11-12
1372	Environmental Science	General	1	Year	10-12
1377	Anatomy and Physiology	College Prep	1	Year	11-12
1380	Comparative Anatomy	General	.5	Semester	11-12
1301, 1302	Science Leadership	College Prep	.5/1	Sem./Year	12

SCIENCE

Course Number: 1310
Open To: Grade 9
Prerequisites: None
Weight: College Prep
Duration/Credit: Year/1 Credit

This course is designed to develop skills necessary for continued courses in science. The scientific method, structures, properties of matter, conservation of energy, forces and motion, and human effects on ecosystems are studied through experiments and projects.

ADVANCED PLACEMENT (AP) BIOLOGY

Course Number: 1368 & 1369 (must register for both)
Open To: Grades 11-12
Prerequisites: Honors Biology is strongly suggested
Weight: AP
Duration/Credit: Year/1.5 Credit (Every day in the fall, every other day in the spring)
PGR: #7 Reading for Information

AP/Biology is a college level course. Topics follow the Advanced Placement course outline and will focus on the eight major themes of biology. The topics will include: Biochemistry, Cell Biology, Genetics, Evolution, Ecology, Botany, Zoology and classification. There is an extensive lab curriculum. All students are expected to complete both semesters and take the AP exam.

HONORS BIOLOGY

Course Number: 1321
Open To: Grade 10
Prerequisites: None
Weight: Honors
Duration/Credit: Year/1 Credit
PGR: #7 Reading for Information

This is an accelerated course exploring Biology concepts in depth. Cell Biology, Genetics, Evolution, Ecology, Botany and Zoology are included. This course is strongly recommended as a prerequisite for students who are planning to take AP Biology.

COLLEGE PREP BIOLOGY

Course Number: 1322
Open To: Grade 10
Prerequisites: None
Weight: College Prep
Duration/Credit: Year/1 Credit
PGR: #7 Reading for Information

This course offers an in depth study of life processes. Emphasis will be on the cell, genetics, evolution, and the interdependence of organisms. Learning activities include experiments with written reports and projects. Independent learning will be expected.

GENERAL BIOLOGY

Course Number: 1324
Open To: Grade 10
Prerequisites: None
Weight: General
Duration/Credit: Year/1 Credit
PGR: #7 Reading for Information

This course offers a general overview of life processes. Emphasis will be on the cell, genetics, evolution, and the interdependence of organisms. Learning activities include experiments and projects.

HUMAN BIOLOGY

Course Number: 1326
Open To: Grades 11-12
Prerequisites: Biology
Weight: General
Duration/Credit: Year/1 Credit
PGR: #7 Reading for Information

In this general level course we will discuss the 11 human systems with a focus on practical knowledge of how the human body functions. Students will become better prepared to understand future health issues for themselves and their families. Diseases and disorders associated with each system will be explored. Students should be aware that some dissection will be required.

ADVANCED PLACEMENT (AP) CHEMISTRY

Course Number: 1330
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 (Every day for the first semester, every other day in semester 2)
PGR: #7 Reading for Information

This is a college-level Chemistry course designed for students who are planning a career in Chemistry or a related science. Topics will follow the suggested course outline for the Advanced Placement Program. Students who take this course are expected to take the Advanced Placement test or for those students planning a non-science career to earn college credit.

HONORS CHEMISTRY

Course Number: 1331
Open To: Grades 11-12
Prerequisites: CP Algebra 1
Weight: Honors
Duration/Credit: Year/1 Credit

This rigorous course offers a quantitative approach to Chemistry topics covered in CP Chemistry with more in depth study and independent learning. A semester project on a Chemistry-related topic is required.

COLLEGE PREP CHEMISTRY

Course Number: 1332
Open To: Grades 11-12
Prerequisites: Algebra 1 recommended
Weight: College Prep
Duration/Credit: Year/1 Credit
PGR: #7 Reading for Information

This course is about the study of matter and its changes. Topics include proper ties of elements, compounds and mixtures; trends and patterns of the Periodic Table of Elements; covalent and ionic bonding, molecular structure; solids, liquids, and gases; and mathematical solutions to chemical problems. Students perform a variety of experiments.

CHEMISTRY IN THE COMMUNITY

Course Number: 1333
Open To: Grades 11-12
Prerequisites: None – Biology may be concurrent
Weight: General
Duration/Credit: Year/1 Credit
PGR: #7 Reading for Information

This course uses ChemCom, a program developed by the American Chemical Society. It explores environmental problems and the chemistry involved with investigating or solving them. Practical chemical assessment techniques are learned including: titration, qualitative analysis and use of the spectrophotometer. “Project Search” a state water quality testing program is incorporated in the curriculum.

LABORATORY CHEMISTRY

Course Number: 1335
Open To: Grades 11-12
Prerequisites: None – Biology may be concurrent
Weight: General
Duration/Credit: Semester/.5 Credit
PGR: #7 Reading for Information

This course will place students into the role of laboratory technician. Students will hone their problem solving skills by learning techniques for identifying and measuring unknown substances. New Chemistry concepts will be introduced with each new unknown substance. The course will simulate a work site and students will be assessed on their technique as well as their understanding of concepts.

FORENSICS

Course Number: 1340
Open To: Grades 11-12
Prerequisites: Biology
Weight: General
Duration/Credit: Year/1 Credit
PGR: #7 Reading for Information

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, soil, glass, drug identification and toxicology, blood and blood spatter, DNA fingerprinting, forensic anthropology (human remains), handwriting analysis and counterfeiting. When possible, guest speakers will present real life cases and discuss career opportunities within the field of Forensic Science.

HONORS PHYSICS 1

Course Number: 1350
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: #7 Reading for Information

This advanced first year physics course is designed for students who plan to go to college for science, engineering, mathematics, and related areas. Topics studied are statics, dynamics, momentum, energy. These topics are presented using a laboratory approach where measurement and analysis are stressed. A high degree of mathematical and reasoning ability is necessary and not simply the ability to memorize facts. This course will focus on problem solving and study skills required to be successful in college science courses.

COLLEGE PREP PHYSICS w/LAB

Course Number: 1351
Open To: Grades 10-12
Prerequisites: Successful completion of Algebra 1
Weight: College Prep
Duration/Credit: Year/1 Credit
PGR: #7 Reading for Information

This physics course is designed for students who plan to go to college for study in the liberal arts. It is a lab science that explores the concepts of motion, forces, momentum, energy and matter. The approach to the topics will be a conceptual one, where demonstrations and hands-on activities are used to help students see the physics in real world situations. While mathematics is frequently used, skills beyond Algebra 1 are not required. Thinking, reasoning, and understanding, rather than memorization, are the skills that this course will encourage.

ADVANCED PLACEMENT (AP) PHYSICS

Course Number: 1352
Open To: Grades 11-12
Prerequisites: Successful completion of Honors Physics 1 or successful completion of CP Physics with instructors approval
Weight: AP
Duration/Credit: Year/1.5 Credit (every day in the fall, every other day in the spring)
PGR: #7 Reading for Information

This college level physics course is a continuation of Honors Physics 1 and is strongly recommended for students who plan to go to college for science engineering, mathematics and related areas. The course has a strong lab component and is designed to prepare students to be successful on the Advanced Placement Physics test. .

ENVIRONMENTAL SCIENCE

Course Number: 1372
Open To: Grades 10-12
Prerequisites: None – Biology may be concurrent
Weight: General
Duration/Credit: Year/1 Credit
PGR: #7 Reading for Information

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.

ANATOMY AND PHYSIOLOGY

Course Number: 1377
Open To: Grades 11-12
Prerequisites: CP Biology and CP Chemistry or CP Physics recommended
Weight: College Prep
Duration/Credit: Year/1 Credit
PGR: #7 Reading for Information

This course investigates the tissues, organs, and systems of the human body. Through the use of lecture, multimedia, computer programs, and most importantly lab investigation (including dissection) the systems of the body are explored. This rigorous course should be considered by students who may be thinking of entering health care, animal care, or related medical fields.

COMPARATIVE ANATOMY

Course Number: 1380
Open To: Grades 11-12
Prerequisites: Biology
Weight: General
Duration/Credit: Semester/.5 Credit
PGR: #7 Reading for Information

This is a General level elective with a College Prep option. The course compares the anatomy of invertebrates and vertebrates. Students will explore the evolution of systems. College prep students will be responsible for more in depth explorations and are required to develop a more extensive portfolio. Dissections of representative organisms will be required.

SCIENCE LEADERSHIP

Course Number: 1301 Semester, 1302 Year
Open To: Grade 12
Prerequisites: Science and Biology 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

<i>Course #</i>	<i>Title</i>	<i>Level</i>	<i>Credit</i>	<i>Duration</i>	<i>Grade</i>
1205	World Cultures	College Prep	1	Year	9
1214	CP American Citizenship	College Prep	1	Year	10
1216	General American Citizenship	General	1	Year	10
1219	AP U.S. History	AP	1.5	Year	11
1224	CP U.S. History	College Prep	1	Year	11
1226	General U.S. History	General	1	Year	11
1231	CP Psychology	College Prep	.5	Semester	11-12
1242	General Psychology Topics	General	.5	Semester	11-12
1233	CP Sociology	College Prep	.5	Semester	11-12
1244	General Sociology Topics	General	.5	Semester	11-12
1236	CP Contemporary Issues	College Prep	.5	Semester	11-12
1237	CP Contemporary Issues 2	College Prep	.5	Semester	11-12
1241	Economics	College Prep	.5	Semester	11-12
1248	American Studies	Honors	2	Year	11-12

For grade 9 courses, students have opportunities to write persuasive essays on topics in Social Studies for graded assignments and as practice for the CAPT test (sophomore year) and 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.

WORLD CULTURES

Course Number: 1205
 Open To: Grade 9
 Prerequisites: None
 Weight: College Prep
 Duration/Credit: Year/1 Credit

This course is an intense study of the major cultural forces and civilization movements of the world. This course covers Africa, the Middle East, Japan, Oceania, China, Southern Asia, Europe, and Latin America. The course focuses on the history, geography, culture, and economics of each world region. Also the contemporary problems and the unique contributions of each society are studied. The class expectations include discussion sessions, outside reading assignments, individual and group projects, written and oral reports, and essay exams.

CP AMERICAN CITIZENSHIP

Course Number: 1214
 Open To: Grade 10
 Prerequisites: None
 Weight: College Prep
 Duration/Credit: Year/1 Credit
 PGR: #1 Portfolio (1.2; 1.5), #3 Persuasive Argument, #7 Reading for Information

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.

GENERAL AMERICAN CITIZENSHIP

Course Number: 1216
Open To: Grade 10
Prerequisites: None
Weight: General
Duration/Credit: Year/1 Credit
PGR: #1 Portfolio (1.2; 1.5), #3 Persuasive Argument, #7 Reading for Information

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.

AP UNITED STATES HISTORY

Course Number: 1219
Open To: Grade 11
Prerequisites: College Prep Social Studies recommended, teacher recommendation
Weight: AP
Duration/Credit: Year/1.5 Credits (1 during the day, .5 during intervention)
PGR: #3 Persuasive Argument, #7 Reading for Information

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.

CP UNITED STATES HISTORY

Course Number: 1224
Open To: Grade 11
Prerequisites: None
Weight: College Prep
Duration/Credit: Year/1 Credit
PGR: #3 Persuasive Argument, #7 Reading for Information

This course is a comprehensive survey of the American past from the Industrial era to the present. Topics include: the Industrial era, the Great Depression, the rise of totalitarian governments and WWII. Through a topical approach, students learn how key historical events and personalities affected the development of this great nation. The course requirements include reading and analyzing primary and secondary source documents, historical works both fiction and non fiction (minimum 4), formal essays, class discussion, and essay exams.

GENERAL UNITED STATES HISTORY

Course Number: 1226
Open To: Grade 11
Prerequisites: None
Weight: General
Duration/Credit: Year/1 Credit
PGR: #3 Persuasive Argument, #7 Reading for Information

This course is a general survey of the American past from the Industrial era to the present. Topics include: the Industrial era, the Great Depression, the rise of totalitarian governments and WWII. The textbook is the principle source for students, though outside readings may be assigned periodically. Students must read, analyze, think critically, and discuss historical situations of the past 150 years.

PSYCHOLOGY

Course Number: 1231
Open To: Grade 11-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5Credit
PGR: #3 Persuasive Argument, #7 Reading for Information

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.

PSYCHOLOGY TOPICS

Course Number: 1242
Open To: Grade 11-12
Prerequisites: None
Weight: General
Duration/Credit: Semester/.5 Credit

This course will survey important topics in psychology. Students will receive an overview of psychology and examine issues of how psychology applies to today's society. Classroom discussion, internet research, and written assignments are required. Successful students in this class may advance to CP Psychology based on teacher recommendation.

SOCIOLOGY

Course Number: 1233
Open To: Grade 11-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit
PGR: #3 Persuasive Argument, #7 Reading for Information

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.

SOCIOLOGY TOPICS

Course Number: 1244
Open To: Grade 11-12
Prerequisites: None
Weight: General
Duration/Credit: Semester/.5 Credit

This course will survey important topics in sociology. Students will receive an overview of sociology and examine issues of how sociology applies to today's society. Classroom discussion, internet research, and written assignments are required. Successful students in this class may advance to CP Sociology based on teacher recommendation.

CP CONTEMPORARY ISSUES – CP CONTEMPORARY ISSUES 2

Course Number: 1236 & 1237 (Students that want 1 credit must sign up for both sections)
Open To: Grade 11-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester per course/.5 Credit per course
PGR: #3 Persuasive Argument, #7 Reading for Information

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.

ECONOMICS

Course Number: 1241
Open To: Grade 11-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Semester/.5 Credit
PGR: #3 Persuasive Argument, #7 Reading for Information

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.

AMERICAN STUDIES

Course Number: 1248
Open To: Grade 11-12
Prerequisites: American Citizenship
Weight: College Prep
Duration/Credit: Year/2 Credits
PGR: #3 Persuasive Argument, #6 Oral Communication, #7 Reading for Information

American Studies is an in-depth examination of American culture studied from an interdisciplinary, team-taught approach to include American history, American literature and the arts. Students will make active inquiries into the various periods of our nation's history ranging from the Puritan era to the present with a focus on American culture in its attempt to interpret human experience and American identity. This year long course will require a double-block and can be chosen as an elective or used to fulfill the requirements of one year of English. It also meets the U.S. History requirement.

TECHNOLOGY DEPARTMENT

<i>Course #</i>	<i>Title</i>	<i>Level</i>	<i>Credit</i>	<i>Duration</i>	<i>Grade</i>
	Architecture and Construction Technology				
1560	Fundamentals of Technology	General	.5	Semester	9-12
1563	Construction Applications	College Prep	1	Year	10-12
1565	Construction Management	College Prep	.5	Semester	10-12
1568	Architectural Design	College Prep	1	Year	10-12
1567	Architectural Design 2	College Prep	.5	Semester	10-12
1552	Advanced Technology - Construction	Honors	1	Year	11-12

	Industrial Design and Engineering				
1566	Transportation	General	.5	Semester	9-12
1569	Fundamentals of Engineering	College Prep	.5	Semester	9-12
1557	Mechanical Drafting	College Prep	.5	Semester	9-12
1556	Auto CAD	College Prep	.5	Semester	9-12
1558	Solid Works	College Prep	.5	Semester	9-12
1550	Advanced Technology – Robotics	Honors	1	Year	11-12

	Video Production				
1520	Introduction to Studio Production	General	.5	Semester	9-12
1522	Introduction to Field Production	General	.5	Semester	9-12
1530	Broadcast Journalism Part 1	College Prep	1	Year	11-12
1526	Advanced Studio Production	College Prep	.5	Semester	10-12
1529	Film Production	College Prep	.5	Semester	10-12
1534/1536	Sports Broadcasting	College Prep	.5/1	Sem./Yr	10-12

FUNDAMENTALS OF TECHNOLOGY

Course Number: 1560
 Open To: Grades 9-12
 Prerequisites: None
 Weight: General
 Duration/Credit: Semester/.5 Credit

This course will cover the basic technological principles, procedures and terminology used in the fields of communication, construction, manufacturing and transportation. This is a hands on course in which students will use information they gather to design and build their own unique solutions to challenges in each of the four areas. This course will expose students to a wide variety of tools, materials and processes they will use to fabricate their design solutions.

CONSTRUCTION APPLICATIONS

Course Number: 1563
 Open To: Grades 10-12
 Prerequisites: Fundamentals of Technology
 Weight: College Prep
 Duration/Credit: Year/1 Credit

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.

ARCHITECTURAL DESIGN

Course Number: 1568
Open To: Grades 10-12
Prerequisites: None
Weight: College Prep
Duration/Credit: Year/1 Credit

This course will introduce students to the design aspects associated with construction. Students will use a program called Chief Architect to create home designs and then they will build a 3D model of their project. Students will learn to measure proficiently, read plans, and use problem solving techniques to correctly construct their projects.

ARCHITECTURAL DESIGN 2

Course Number: 1567
Open To: Grades 10-12
Prerequisites: Successful completion of Architectural Design
Weight: College Prep
Duration/Credit: Semester/.5 Credit

This course is designed for students that want to perfect their ability to produce accurate and detailed design projects that incorporate researched design constraints.

CONSTRUCTION MANAGEMENT

Course Number: 1565
Open To: Grades 10-12
Prerequisites: Construction Applications
Weight: General
Duration/Credit: Semester/.5 Credit

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.

TRANSPORTATION

Course Number: 1566
Open To: Grades 9-12
Prerequisites: None
Weight: General
Duration/Credit: Semester/.5 Credit

This course will introduce students to various modes of transportation including land, sea, air and space. Concepts such as aerodynamics, drag, lift, buoyancy, propulsion, and acceleration will be applied to projects and activities.

MECHANICAL DRAFTING

Course Number: 1557
Open To: Grades 9-12
Prerequisites: Fund. Of Technology
Weight: College Prep
Duration/Credit: Semester/.5 Credit *QVCC Credit Available

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.

AUTO CAD

Course Number: 1556
Open To: Grades 9-12
Prerequisites: Fund. Of Technology
Weight: College Prep
Duration/Credit: Semester/.5 Credit

This course will introduce the student to the fundamentals of computer aided drawing skills which are essential for engineers, architects, machinists, and most tradesmen. Students will be completing drawing and 2 D and 3D with programs like AutoCAD and Solidworks.

SOLIDWORKS

Course Number: 1558
Open To: Grades 9-12
Prerequisites: Fund. Of Technology
Weight: College Prep
Duration/Credit: Semester/.5 Credit

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

FUNDAMENTALS OF ENGINEERING

Course Number: 1569
Open To: Grades 9-12
Prerequisites: Fundamentals of Technology recommended
Weight: College Prep
Duration/Credit: Semester/.5 Credit

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 TECHNOLOGY - CONSTRUCTION

Course Number: 1552
Open To: Grades 11-12
Prerequisites: Fundamentals of Technology, another construction pathway technology class, and teacher recommendation.
Weight: Honors
Duration/Credit: Year/1 Credit *QVCC credit

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

ADVANCED TECHNOLOGY - ROBOTICS

Course Number: 1550
Open To: Grades 11-12
Prerequisites: Fundamentals of Technology, another industrial pathway technology class, and teacher recommendation.
Weight: Honors
Duration/Credit: Year/1 Credit *QVCC credit

This class is designed for students that have completed many of the courses in the Industrial Design and Engineering Pathway that wish to take their accumulated experiences to a new level. It will require extensive design, development, testing, and motivation.

INTRODUCTION TO STUDIO PRODUCTION

Course Number: 1520
Open To: Grades 9-12
Prerequisites: None
Weight: General
Duration/Credit: Semester/.5 Credit

This course explores the fundamentals of television studio production. The content of the course emphasizes the training of students for the operation of studio equipment. Students receive hands-on experience using professional video equipment in a television studio/classroom setting. Students produce short programs such as news, talk shows, and game shows with technical proficiency.

INTRODUCTION TO FIELD PRODUCTION

Course Number: 1522
Open To: Grades 9-12
Prerequisites: None
Weight: General
Duration/Credit: Semester/.5 Credit

This course explores the fundamentals of television field production. The content of the course emphasizes the training of students for the operation of field cameras and digital editing equipment. Students receive hands-on experience using professional video equipment outside the television studio/ classroom setting. Students produce short programs such as commercials, music videos, and public service announcements with technical proficiency. For more information, read the class syllabus posted under staff websites at www.killinglyschools.org or at: <http://staff.killingly.k12.ct.us/video/>

ADVANCED STUDIO PRODUCTION

Course Number: 1526
Open To: Grades 10-12
Prerequisites: Intro to Studio Production
Weight: College Prep
Duration/Credit: Semester/.5 Credit

An extension of Intro to Studio Production, the content of this course emphasizes “advanced” operation of studio equipment. The class will work together as a production team to produce advanced studio productions for air during activity period and on Metrocast cable.

FILM PRODUCTION

Course Number: 1529
 Open To: Grades 10-12
 Prerequisites: Introduction to Field Production
 Weight: College Prep
 Duration/Credit: Semester/.5 Credit

An extension of Intro to Field production, the content of this course emphasizes “advanced” operation of video equipment. 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 screenwriting, casting, storyboarding, and all the elements necessary to complete an actual film production. This course will stress team work and may require extra time outside of class for filming.

BROADCAST JOURNALISM

Course Number: 1530
 Open To: Grades 11-12
 Prerequisites: Department Head approval
 Weight: College Prep
 Duration/Credit: Semester/1 Credit

Due to the high profile nature of KHS Weekly in the community and the possible field trip to California 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 weekly news program (KHS Weekly) for broadcast.

SPORTS BROADCASTING

Course Number: 1534 semester/1536 Year
 Open To: Grades 10-12
 Prerequisites: Must have passed Intro to Field Productions
 Weight: College Prep
 Duration/Credit: Semester/.5 Credit or Year 1 Credit.

This course will focus on recording and broadcasting KHS sporting events for air on Metrocast cable. Students will learn the basics of sports and color commentary. Students will be paid minimum wage for the time spent shooting events after school and on weekends. Students may also work as a production team to produce a regular sports news show for Metrocast cable.

WORKPLACE READINESS PROGRAM

<i>Course #</i>	<i>Title</i>	<i>Level</i>	<i>Credit</i>	<i>Duration</i>	<i>Grade</i>
1890	Workplace Readiness	General	.5	Semester	12
1896	CO-OP	General	TBD	Semester	12

WORKPLACE READINESS 1, CO-OP 1

Course Number: 1890 Workplace Readiness 1– Class, 1896 CO-OP 1-Work Experience,
 Open To: Grades 12 (must be age 16 or older)
 Prerequisites: Students must complete an application, be interviewed and approved by the Workplace Readiness teacher/coordinator. Students must have the necessary credits to enter Grade 12

and be recommended by their guidance counselor.

Weight: General
Duration/Credit: Class—Semester/.5 Credit, CO-OP-.5 Credit (200 hours), 1 Credit (400 hours)
PGR: Education/Career Portfolio

The Workplace Readiness Program is designed to aid students in making and achieving career goals by combining the classroom with work experiences in the business community. Students accepted into the program must meet all course requirements needed to graduate. Students may be provided release time from school if course schedule permits and paid training site requires this to gain work experience.

The classroom portion of the program includes basic skills, making decisions, solving problems, developing responsibility, and self-esteem, self-management, integrity and honesty, goal setting, self-awareness, communication skills, job acquisition, labor trends, work readiness skills, job shadowing opportunities, health and safety, resource management, and conflict resolution. Locating and allocating community resources for present and future use, working with others through leadership exercises, and utilizing technology as a means of acquiring new skills for the future are introduced. The work experience portion of the program includes accurate record keeping, supervised job training, job interviews, routine work evaluations, and assignments related to specific career goals. Grades are based not only on course content, but on school and work attendance and successful completion of research and assignments related to the work experience.

Learning activities include class discussion, site visitations, mock interviews, role-playing, and special projects. Students accepted into the Workplace Readiness Program must sign a contract that allows for the monitoring of their attendance, grades, and behavior. Violation of the contract can result in removal from the program.

WORLD LANGUAGES DEPARTMENT

<i>Course #</i>	<i>Title</i>	<i>Level</i>	<i>Credit</i>	<i>Duration</i>	<i>Grade</i>
1410	Honors French 1	Honors	1	Year	9-12
1411	CP French 1	College Prep	1	Year	9-12
1414	Honors Spanish 1	Honors	1	Year	9-12
1415	CP Spanish 1	College Prep	1	Year	9-12
1418	Honors Latin 1	Honors	1	Year	9-12
1419	CP Latin 1	College Prep	1	Year	9-12
1420	Honors French 2	Honors	1	Year	10-12
1421	CP French 2	College Prep	1	Year	10-12
1424	Honors Spanish 2	Honors	1	Year	10-12
1425	CP Spanish 2	College Prep	1	Year	10-12
1428	Honors Latin 2	Honors	1	Year	10-12
1430	Honors French 3	Honors	1	Year	11-12
1431	CP French 3	College Prep	1	Year	11-12
1434	Honors Spanish 3	Honors	1	Year	11-12
1435	CP Spanish 3	College Prep	1	Year	11-12
1456	UCONN AP Latin 3	AP	1.5	Year	11-12
1440	Honors French 4	Honors	1	Year	12
1444	Honors Spanish 4	Honors	1	Year	12
1458	UCONN AP Latin 4	AP	1.5	Year	12
1450	Honors French 5	Honors	1	Year	12
1454	Honors Spanish 5	Honors	1	Year	12

HONORS FRENCH 1

Course Number: 1410
Open To: Grades 9-12
Prerequisites: Student should be enrolled in at least one other Honors class
Weight: Honors
Duration/Credit: Year/1 Credit

This course is an accelerated introduction to the French language, its sounds, structures, word order, and vocabulary. Listening, speaking, reading, and writing skills are emphasized, as is French culture and its place in the modern world. This course is recommended for the college-bound student.

CP FRENCH 1

Course Number: 1411
Open To: Grades 9-12
Prerequisites: Must be in CP English OR Department Chair approval
Weight: College Prep
Duration/Credit: Year/1 Credit

This course is an introduction to the French language, its sounds, structures, word order, and vocabulary. Listening, speaking, reading, and writing skills are emphasized, as is French culture and its place in the modern world. This course also allows students to express themselves not only in the present tense but also in the past and the future tense. Students will be able to use more complex grammatical structures and vocabulary. This course is recommended for the college-bound student.

HONORS SPANISH 1

Course Number: 1414
Open To: Grades 9-12
Prerequisites: Student should be enrolled in at least one other Honors class
Weight: Honors
Duration/Credit: Year/1 Credit

This course is an accelerated introduction to the Spanish language, its sounds, structures, word order, and vocabulary. Listening, speaking, reading, and writing skills are emphasized as is Hispanic culture and its place in the modern world. This course also allows students to express themselves not only in the present tense but also in the past and future tense. Students will be able to use more complex grammatical structures and vocabulary. This course is recommended for the college-bound student.

CP SPANISH 1

Course Number: 1415
Open To: Grades 9-12
Prerequisites: Must be in CP English OR Department Chair approval
Weight: College Prep
Duration/Credit: Year/1 Credit

This is an introduction to the Spanish language, its sounds, structures, word order, and vocabulary. Listening comprehension, speaking, reading, and writing skills are emphasized. Behavior patterns typical of the Hispanic culture are explored through the study of greetings, meals, holidays, family life, etc. This course is recommended for the college-bound student.

HONORS LATIN 1

Course Number: 1418
Open To: Grades 9-12
Prerequisites: Student should be enrolled in at least one other Honors class
Weight: Honors
Duration/Credit: Year/1 Credit

This is an accelerated beginning study of Latin language, including grammar, syntax, and vocabulary. Listening, reading, writing, and translating skills are developed. As a great percentage of English words come from Latin, each lesson includes learning English vocabulary and English sentence structures. Roman culture, mythology, and history are read and discussed as a basis for modern culture. This course is recommended for the college-bound student.

CP LATIN 1

Course Number: 1419
Open To: Grades 9-12
Prerequisites: Must be in CP English OR Department Chair approval
Weight: College Prep
Duration/Credit: Year/1 Credit

This course is a beginning study of the Latin language, its grammar, and vocabulary. Listening, reading, writing, and translating skills are developed. As a great percentage of English words come from Latin, each lesson includes learning English vocabulary and English sentence structures. Roman culture, mythology, and history are read and discussed as a basis for modern culture. This course is recommended for the college-bound student.

HONORS FRENCH 2

Course Number: 1420
Open To: Grades 10-12
Prerequisites: "C" or better in Honors French 1
Weight: Honors
Duration/Credit: Year/1 Credit

This is an accelerated level 2 class that increases the student's listening, speaking, reading, and writing skills. Emphasis is also placed on pronunciation and cultural topics. Students will be able to read and understand basic reading selections and discuss them at a novice level.

CP FRENCH 2

Course Number: 1421
Open To: Grades 10-12
Prerequisites: "C" or better in CP French 1
Weight: College Prep
Duration/Credit: Year/1 Credit

College Prep French 2 increases the student's listening comprehension, speaking, reading, and writing skills. Emphasis is also placed on pronunciation and cultural topics.

HONORS SPANISH 2

Course Number: 1424
Open To: Grades 10-12
Prerequisites: "C" or better in Honors Spanish 1
Weight: Honors
Duration/Credit: Year/1 Credit

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

CP SPANISH 2

Course Number: 1425
 Open To: Grades 10-12
 Prerequisites: "C" or better in CP Spanish 1
 Weight: College Prep
 Duration/Credit: Year/1 Credit

College Prep Spanish 2 increases the student's listening comprehension, speaking, reading, and writing skills. Emphasis is on pronunciation and cultural topics.

HONORS LATIN 2

Course Number: 1428
 Open To: Grades 10-12
 Prerequisites: "C" or better in Honors/CP Latin 1
 Weight: Honors
 Duration/Credit: Year/1 Credit

After a completion of grammar study, students read selections of Roman history, mythology, comedy, and satire. Daily reading develops speed, accuracy, comprehension, and independence in the language while learning about Roman civilization as a foundation for American government and western literature. Students will also apply Latin roots, words, and sentence structures in English composition.

HONORS FRENCH 3

Course Number: 1430
 Open to: Grades 11-12
 Prerequisites: "C" or better in Honors French 2
 Weight: Honors
 Duration/Credit: Year/1 Credit

This course offers students the opportunity to apply skills acquired in previous French courses. It builds on what has already been learned while further developing the student's ability to communicate in French.

CP FRENCH 3

Course Number: 1431
 Open To: Grades 11-12
 Prerequisites: "C" or better in CP French 2
 Weight: College Prep
 Duration/Credit: Year/1 Credit

College Prep French 3 begins the liberation phase of language study. The continuation of grammar study is an important part of the course, but emphasis is placed on the active use of the language in various useful situations. Reading selections are chosen to introduce the student to French literature and to gain cultural insight with minimal language difficulty. Students study French civilization and history.

HONORS SPANISH 3

Course Number: 1434
 Open to: Grades 11-12
 Prerequisites: "C" or better in Honors Spanish 2
 Weight: Honors
 Duration/Credit: Year/1 Credit

This course offers students the opportunity to apply skills acquired in previous Spanish courses. It builds on what has already been learned while further developing the student's ability to communicate in Spanish.

CP SPANISH 3

Course Number: 1435
 Open To: Grades 10-12
 Prerequisites: "C" or better in CP Spanish 2
 Weight: College Prep
 Duration/Credit: Year/1 Credit

College Prep Spanish 3 begins the liberation phase of language study. The continuation of grammar study is an important part of the course, but emphasis is placed on the active use of the language in various useful situations. Reading selections are chosen to introduce the student to Hispanic literature and to gain cultural insight with minimal language difficulty.

UCONN/AP LATIN 3

Course Number: 1456
 Open To: Grades 11-12
 Prerequisites: "C" or better in Honors Latin 2
 Weight: AP
 Duration/Credit: Year/1.5 Credits, (1 credit during the day, .5 during intervention) 3 credits from UCONN

This course is for third and fourth level students of Latin. Students read Cicero's Pro Caelio, a defense of Caelius who is accused of attempted murder of Clodia, and Catullus' Carmina, Roman lyric poetry. The course moves between translation and poetic analysis. The course is approved by the University of Connecticut for college credit for any enrolled student who earns a grade of "C" or higher. Students earn college credit by taking the (required) Advanced Placement Examination. Students are also encouraged to take the SAT II.

HONORS FRENCH 4

Course Number: 1440
 Open To: Grades 12
 Prerequisites: "C" or better in CP French 3
 Weight: Honors
 Duration/Credit: Year/1 Credit

This course gives students practice in applying skills from previous French courses as well as expanding their skills. It focuses on conversation, composition, and reading. Emphasis is on developing the student's ability to communicate with French-speaking people and understanding them through their literature.

HONORS SPANISH 4

Course Number: 1444
 Open To: Grades 12
 Prerequisites: "C" or better in CP Spanish 3
 Weight: Honors
 Duration/Credit: Year/1 Credit

This course gives students practice in applying skills from previous Spanish courses as well as expanding their skills. It focuses on conversation, composition, and reading. Emphasis is on the student's ability to communicate with Spanish-speaking people and understanding them through their literature.

UCONN/AP LATIN 4

Course Number: 1458
 Open To: Grade 11-12
 Prerequisites: "C" or better in UConn/AP Honors Latin 3
 Weight: AP
 Duration/Credit: Year/1.5 Credits(1 credit during the day, .5 during intervention), 3 credits from UCONN.

This course is for third and fourth level students of Latin. Students read Vergil's Aeneid and analyze the poet's purpose, poetic techniques, characteristics of epic poetry, the importance of historical context and Roman nationalism for the period after the assassination of Julius Caesar and the civil war. The course moves between translation and analyzing the poetic meter, motifs, and structure both in class discussion and essays. The course is approved by the University of Connecticut for college credit for any enrolled student who earns a grade of "C" or higher. Students earn college credit by taking the (required) Advanced Placement Examination. Students are also encouraged to take the SAT II.

HONORS FRENCH 5

Course Number: 1450
Open To: Grade 12
Prerequisites: "C" or better in CP French 4
Weight: Honors
Duration/Credit: Year/1 Credit

This course allows the students to continue perfecting their French language at a more advanced level. Emphasis is on a variety of literary genres, as well as on history and fine arts. Students taking this course should be preparing to take the SAT II test.

HONORS SPANISH 5

Course Number: 1454
Open To: Grade 12
Prerequisites: "C" or better in CP Spanish 4
Weight: Honors
Duration/Credit: Year/1 Credit

This course allows the students to continue perfecting their Spanish language at a more advanced level. Emphasis is on a variety of literary genres, as well as on history and fine arts. Students taking this course should be preparing to take the SAT II test.

“Employers, educators and policymakers agree that the skills necessary for entering postsecondary education today are virtually the same skills necessary for success in the modern workplace. The results that matter apply to all students.”

(A State Leader’s Action Guide to 21st Century Skills: A New Vision for Education. Partnership for 21st Century Skills, 2006)

On the following pages, the eight Career Clusters are identified with their corresponding Pathways. Also listed for each pathway are samples of occupations that fall within that pathway. Finally, all courses offered at Killingly High School that fulfill the successful completion of the student’s chosen Pathway are listed. The courses are divided even further into **Required** courses and **Additional** or recommended choices.





Career Cluster: Agricultural Education

Pathway: Animal Science

Sample Occupations Relating to Animal Science

Veterinary Technician	Kennel Operator	Animal Genetics
Ag Sales and Service	Animal Health Research	Ag Educator
Dog Groomer	Stable Manager	Poultry Management
Farm Credit	Ag Extension	Animal Nutritionist
Milk Tester	Pet Store Manager	Food Processing

Pathway Courses & Enrichment Suggestions

Required Pathway Courses:

- Agriculture Education 1 (1)
- Animal Science 2 (2)
- Animal Science 3 (2)
- Animal Science 4 (2)

Additional Pathway Choices:

- Biology (1)
- Chemistry (1)
- Anatomy & Physiology (1)
- Entrepreneurship and Marketing (1)



Career Cluster: Agriculture Education

Pathway: Agricultural Engineering

Sample Occupations Relating to Agricultural Engineering

Welder	Equipment Operator	Mechanic
Parts Salesman	Landscaper	Small Gas Engine Repairman
Builder	Plumber	Electrician
Surveyor	Equipment Salesman	Farmer
Harvester	Truck Driver	Tool Salesman

Pathway Courses & Enrichment Suggestions

Required Pathway Courses:

- Agricultural Engineering 2 (2)
- Agricultural Engineering/Forestry 3 (2)
- Agricultural Engineering/Forestry 4 (2)

Additional Pathway Choices:

- Fundamentals of Technology (.5)
- Economics (.5)
- Algebra (1)



Career Cluster: Agricultural Education

Pathway: Aquaculture & Natural Resources

Sample Occupations Relating to Aquaculture & Natural Resources

Forester	Hydrologist	GIS Mapping Specialist
Marine Biologist	Soil Scientist	Environmental Journalist
Outdoor Recreation	Wildlife Biologist	Park Ranger
Aquarist	Fish Farmer	Fisheries Scientist
Conservation Law Officer	Conservation Educator	Aquarium/Zoo Worker
Tropical Fish Breeder	Lab Technician	Extension Service Specialist

Pathway Courses & Enrichment Suggestions

Required Pathway Courses:

- Agriculture Education 1 (1)
- Aquaculture/Natural Resources 2 (2)
- Aquaculture/Natural Resources 3 (2)
- Aquaculture/Natural Resources 4 (2)

Additional Pathway Choices:

- Chemistry (1)
- Physics (1)
- Environmental Science (1)
- Biology (1)
- Anatomy & Physiology (1)
- Business Management (1)
- Entrepreneurship and Marketing (1)
- Algebra (1)



Career Cluster: Agricultural Education

Pathway: Horticulture

Sample Occupations Relating to Horticulture

Floral Designer	Florist	Christmas Tree Farmer
Landscape Designer	Botanist	Greenhouse Manager
Turf Grass Manager	Entomologist	Vegetable Gardener
Landscape Architect	Geneticist	Soil Scientist
Agricultural Education Teacher		

Pathway Courses & Enrichment Suggestions

Required Pathway Courses:

- Agriculture Education 1 (1)
- Horticulture 2 (2)
- Horticulture 3 (2)
- Horticulture 4 (2)

Additional Pathway Choices:

- Biology (1)
- Earth Science (1)
- Chemistry (1)
- Business Management (1)
- Algebra 1 (1)



Career Cluster: Construction & Industrial Design

Pathway: Architecture & Construction

Sample Occupations Relating to Architecture & Construction

Architect	Plumber	Inspector
Framer/Builder	Land Developer	Construction Foreman
Contractor	Surveyor	Kitchen and Bath Designer
Civil Engineer	Interior Designer	Electrician
Structural Engineer	Estimator	HVAC Technician/Specialist
Masonry/Concrete Trades Person	Heavy Equipment Operator	Drywall/Sheetrock Specialist Installer

Pathway Courses & Enrichment Suggestions

Required Pathway Courses:

- Fundamentals of Technology (.5)
- Construction Applications (1) *
- Architectural Design (1) *
- Advanced Technology (1) or Construction Management (.5)

Additional Pathway Choices:

- CP Algebra 2 (1)
- CP Physics or CP Chemistry (1)
- Business Communication (.5)
- Principles of Engineering (.5)
- Entrepreneurship and Marketing (1)
- Business Law (.5)
- Geometry (1)

*** Students who pass these courses plus Algebra 1 and Algebra 2, Chemistry and/or Physics, and Communications/Speech and/or Business Communications may qualify for college credit at QVCC.**



Career Cluster: Construction & Industrial Design

Pathway: Industrial Design & Engineering

Sample Occupations Relating to Industrial Design

Civil Engineer	Machinist	Production Foreman
Structural Engineer	Production Specialist	Architectural Engineer
CAD Designer/Specialist	Robotics Specialist	CNC Operator
Mechanical Engineer	Automation Programmer	Industrial Designer
Architect	Logic Control Programmer	

Pathway Courses & Enrichment Suggestions

Required Pathway Courses:

- Mechanical Drafting (1) *
- AutoCAD (1) *
- Fundamentals of Engineering (.5)
- Fundamentals of Technology (.5)

Additional Pathway Choices:

- CP Algebra 2 (1)
- CP Physics or CP Chemistry (1)
- Business Communication (.5)
- Transportation (.5)
- Entrepreneurship and Marketing (1)
- Graphic Design (.5)
- Geometry (1)
- Business Management (1)

*** Students who pass these courses plus Algebra 1 and Algebra 2, Chemistry and/or Physics, and Communications/Speech and/or Business Communications may qualify for college credit at QVCC.**



Career Cluster: Arts and Communication

Pathway: Graphic Design

Sample Occupations Relating to Graphic Design

Advertising Designer/Dir.	Medical Illustration	Web Designer
Layout Artist	Toy Designer	Multimedia/Interactive Designer
Brand Identity Design	Special Effects	Photo Editing/Repairing
Logo Designer	Video Game Design	Animation / 3D Design
Package Designer	Interior/Exterior Designer	Illustrator
Fashion Designer	Furniture Design	Creative Art Director
Graphic Designer	Promotional Designer	Industrial Designer
Merchandiser	Freelance Designer	Corporate/In-house Designer
Marketing Consultant	Exhibit Designer	Graphic Designer for Film/TV

Pathway Courses & Enrichment Suggestions

Required Pathway Courses:

- Graphic Design 1 (.5) *
- Graphic Design 2 (.5) *
- Art 1 (.5)
- Digital Imaging (.5)

Additional Pathway Choices:

- Digital Marketing 1 (1)
- Digital Photography (.5)
- Drawing 1 (.5)
- Web Development (1)
- Introduction to Programming (1)
- Intro. to Studio Production (.5)

*** Students who pass these courses plus Algebra 1 and Algebra 2, Chemistry and/or Physics, and Communications/Speech and/or Business Communications may qualify for college credit at QVCC.**



Career Cluster: Arts & Communication

Pathway: Fine Arts

Sample Occupations Relating to Fine Arts

Art Educator	Exhibiting Artist	Poster Artist
Art Historian	Gallery Curator	Printmaker
Art Therapist	Muralist	Scenic Artist
Art & Culture Program Dir.	Museum Curator	Sculptor
Billboard Artist	Photographic Curator	Set Designer
Digital Imager	Portrait Artist	Textile Artist

Pathway Courses & Enrichment Suggestions

Required Pathway Courses:

- Art 1 (.5)
- Art 2 (.5)
- Drawing 1 (.5)
- Advanced Drawing (.5)

Additional Pathway Choices:

- Painting 1 (.5)
- Graphic Design 1 and 2 (.5 each)
- Digital Photography 1 (.5)
- Printmaking 1 (.5)
- Sculpture (.5)
- Digital Imaging (.5)
- Original Arts (.5)



Career Cluster: Arts & Communications

Pathway: Journalism

Sample Occupations Relating to Journalism

Business Writing	News Producer	Editor
Technical Writing	News Reporter	Free Lance Reporter
Production Assistant	Newspaper Publishing	Publicity & Promotions
Electronic Media Specialist	Publisher	Reporter
Journalist	Researcher	Script Writer
News Anchor	Teacher	

Pathway Courses & Enrichment Suggestions

Required Pathway Courses:

- Journalism 1 (1)
- Journalism 2 (1)
- Digital Photography 1 (.5)
- Digital Marketing 1 (1)

Additional Pathway Choices:

- Art 1 (.5)
- Graphic Design 1 and 2 (.5 each)
- Communications and Speech (.5)
- Contemporary Issues (.5)
- Digital Imaging 1 (.5)
- Digital Photography 2 (.5)
- Intro. to Studio Production (.5)



Career Cluster: Arts and Communication

Pathway: Performing Arts
Music Vocal/Instrumental

Sample Occupations Relating to Performing Arts

Professional Vocalist	Music Journalist/Writer	Music Business
Professional Instrumentalist	Lobbyist	Song Writer
Nk-8 Music Educator	Music Historian/Theorist	Recording Engineer
9-12 Music Educator	Composer/Arranger	Conductor
Collegiate Music Educator	Copyist/Score Preparer	Private Music Instructor
Music Therapist	Music/Arts Management	Music Librarian

Pathway Courses & Enrichment Suggestions

Required Pathway Courses:

- *Symphonic Winds and/or Percussion Ensemble (1)
- *Concert Chorale and/or Women's Choir (1)
- AP Music Theory (1)

Additional Pathway Choices:

- Music History (.5)
- Introduction to Guitar (.5)
- Guitar 2 (.5)
- Vocal Fundamentals (.5)
- History of Popular Music (.5)
- Music Technology 1 and/or 2 (.5)
- CP Music Theory (.5)
- Business Management (1)
- Entrepreneurship and Marketing (1)
- Marching Band (CP or Honors) (.5)

*(4 years; 2 years must be at Honors level)



Career Cluster: Arts & Communication

Pathway: Theater Arts

Sample Occupations Relating to Theater Arts

Actor	Mime	Storyteller
Artistic Director	Performance Artist	Theater Therapist
Casting Director	Puppeteer	Instructor
Director	Dramaturge	

Pathway Courses & Enrichment Suggestions

Required Pathway Courses:

- Theatre Arts (.5)
- Communications and Speech (.5)
- Drama Production (2 years)

Additional Pathway Choices:

- Creative Writing (.5)
- Journalism (1)
- Film Production (.5)
- Best Sellers (.5)
- Shakespeare (.5)
- Construction Applications (1)
- Art 1 or Drawing 1 (.5 each)
- Concert Chorale or Women's Choir (1)
- Symphonic Winds or Percussion Ensemble (1)



Career Cluster: Arts & Communication

Pathway: Photography

Sample Occupations Relating to Photography

Action Photographer	Catalog	Greeting Card
Advertising Product	Corporate Events	Interior
Aerial Photographer	Cruise Ship	Magazine
Archival / Documentation	Environmental	Portrait
Automotive Photographer	Fashion	Travel
Baby / Children	Food Photographer	Wedding

Pathway Courses & Enrichment Suggestions

Required Pathway Courses:

- Digital Photography 1 (.5) *
- Digital Photography 2 (.5) *
- Digital Photography 3 (.5) *
- Independent Study Photo 1

Additional Pathway Choices:

- Independent Study Photo 2
- Independent Study Photo 3
- Graphic Design 1 and 2 (.5 each)
- Digital Imaging (.5)
- Journalism 1 (1)
- Digital Marketing 1 (1)
- Intro. to Studio Production (.5)

*** Students who pass these courses plus Algebra 1 and Algebra 2, Chemistry and/or Physics, and Communications/Speech and/or Business Communications may qualify for college credit at QVCC.**



Career Cluster: Arts & Communication

Pathway: Video Technology

Sample Occupations Relating to Video Technology

Assistant Director	Editor	News Producer
Associate Producer	Engineer	Production Assistant
Audio Engineer	Floor Director	Publicity & Promotions
Camera Operator	Lighting Director	Researcher
Computer Graphics Operator	News Anchor	Script Writer
Director	News Reporter	Technical Director

Pathway Courses & Enrichment Suggestions

Required Pathway Courses:

- Introduction to Studio Production (.5)
- Introduction to Field Production (.5)
- Broadcast Journalism (1)

Additional Pathway Choices:

- Film Production (1)
- Advanced Studio Production (1)
- Journalism (1)
- Digital Photography 1 (.5)
- Graphic Design 1 (.5)
- Digital Imaging (.5)
- Creative Writing (.5)
- Communications and Speech (.5)



Career Cluster: Education & Human Development

Pathway: Early Childhood Education

Sample Occupations Relating to Early Childhood Education

Child Family Advocate	Kindergarten Teacher	Labor & Delivery Nurse
Child Life Specialist	Elementary School Teacher	Adoption Consultant
Child Psychologist	Infant & Toddler Teacher	Parent
Pediatric Nurse	Nanny	Genetic Counselor
Pediatrician	Head Start Director	Nutrition Educator
Social Worker	Preschool Teacher	Elementary School Principal

Pathway Courses & Enrichment Suggestions

Required Pathway Courses:

- Child Development 1 (.5)
- Child Development 2 (.5)
- Early Childhood Education (1) *

- OR
- UCONN Individual & Family Development (1)

Additional Pathway Choices:

- Psychology (.5)
- Sociology (.5)
- Biology (1)
- World Language (1)
- Careers in Health (1)
- Physics (1)
- Chemistry (1)
- Contemporary Issues (.5)
- Comm. and Speech (.5)

*** Students who pass these courses plus Algebra 1 and Algebra 2, Chemistry and/or Physics, and Communications/Speech and/or Business Communications may qualify for college credit at QVCC.**



Career Cluster: Business & Finance

Pathway: Accounting

Sample Occupations Relating to Accounting

Certified Public Accountant	Actuary	Auditor
Bookkeeper	Budget Analyst	Chief Financial Officer
Collections Executive	Controller	Finance Director
Investment Executive	Merger/Acquisitions Manager	Payroll Clerk
Tax Preparer	Billing Supervisor	Accounts Receivable Clerk
Accounts Payable Clerk	Forensic Accountant	Loan Officer

Pathway Courses & Enrichment Suggestions

Required Pathway Courses:

- Accounting 1 (1) *
- Accounting 2 (1) *
- Business Communication (.5)

Additional Pathway Choices:

- Entrepreneurship and Marketing (1)
- Business Management (1)
- International Business (.5)
- Personal Finance (.5)
- Sport Management (.5)
- Economics (.5)
- Contemporary Issues (.5)
- Discrete Mathematics (1)

*** Students who pass these courses plus Algebra 1 and Algebra 2, Chemistry and/or Physics, and Communications/Speech and/or Business Communications may qualify for college credit at QVCC.**



Career Cluster: Business & Finance

Pathway: Business Management

Sample Occupations Relating to Business Management

Operations Manager	Development Manager	Chief Executive Officer
Entrepreneur	Facilities Manager	General Manager
Government Management	Hospital Management	Human Resources Manager
Management Analyst	Manufacturing Management	Promotions Manager
Purchasing Manager	Public Relations Manager	Hotel Management
Administrative Services Mgr.	Meeting & Convention Planner	Sports & Entertainment

Pathway Courses & Enrichment Suggestions

Required Pathway Courses:

- Business Management (1)
- Business Communication (.5)

Additional Pathway Choices:

- Entrepreneurship and Marketing (1)
- Accounting 1 (1)
- International Business (.5)
- Business Law (.5)
- Sport Management (.5)
- Economics (.5)
- Construction Management (.5)
- World Language (1)
- Personal Finance (.5)



Career Cluster: Business & Finance

Pathway: Marketing

Sample Occupations Relating to Marketing

E-Commerce Manager	Marketing Manager	Research & Development
Entrepreneur	Media Coordinator	Sales Engineer
Customer Service Clerk	Merchandising	Sales Representative
Event Manager	Project Manager	Store Manager
International Merchandising	Public Relations Specialist	Wholesale & Retail Buyer
Market Researcher	Public Relations Writer	Salesperson

Pathway Courses & Enrichment Suggestions

Required Pathway Courses:

- Entrepreneurship and Marketing (1)
- Business Communication (.5)

Additional Pathway Choices:

- Digital Marketing 1 (1)
- Graphic Design 1 (.5)
- Web Development (1)
- Intro. to Studio Production (.5)
- International Business (.5)
- Psychology/Sociology (.5 each)
- Business Management (1)
- Sport Management (.5)



Career Cluster: Business & Finance

Pathway: Personal Finance

Sample Occupations Relating to Personal Finance

Real Estate Broker	Actuary	Auditor
Bookkeeper	Budget Analyst	Insurance Underwriter
Collections Executive	Financial Analyst	Finance Director
Investment Executive	Sales Agent	Loan Officer
Tax Preparer	Securities/Commodities Agent	

Pathway Courses & Enrichment Suggestions

Required Pathway Courses:

- Personal Finance (.5)
- Algebra 1 (1)

Additional Pathway Choices:

- Entrepreneurship and Marketing (1)
- Business Management (1)
- Economics (.5)
- Contemporary Issues (.5)
- Introduction to Business (.5)
- Accounting 1 (1)
- Accounting 2 (1)
- Essentials of Daily Living (1)



Career Cluster: Government & Public Administration

Pathway: Legal Services

Sample Occupations Relating to Legal Services

Administrative Law	Attorney	Case Management Specialist
Court Reporter	File/Document Manager	Information Officer
Investigator	Judge	Law Clerk
Legal Assistant	Legal Secretary	Magistrate
Mediator/Arbitrator	Negotiator	Paralegal
Elected Official	Lobbyist	

Pathway Courses & Enrichment Suggestions

Required Pathway Courses:

- Business Law (.5)
- AP/Honors U.S. History (1)

Additional Pathway Choices:

- Contemporary Issues (.5)
- Economics (.5)
- International Business (.5)
- World Language (1)
- Business Communication (.5)
- Environmental Science (1)
- Psychology (.5)
- Sociology (.5)



Career Cluster: Government & Public Administration

Pathway: Global Studies

Sample Occupations Relating to Global Studies

Air Passenger Company	Government Agency	International Banking
International Consulting Firm	Law Firm	Multinational Corporation
Non-Profit Organization	Shipping Company	Interpreter
Tourism & Hospitality	Import/Export Agent	Foreign Exchange Trader
Stock Broker	Economist	International Media Planner
Political Science	International Relations Officer	

Pathway Courses & Enrichment Suggestions

Required Pathway Courses:

- International Business (.5)
- World Language (2 years)

Additional Pathway Choices:

- Entrepreneurship and Marketing (1)
- Accounting 1 (1)
- Business Communication (.5)
- Business Law (.5)
- Sport Management (.5)
- Economics (.5)
- Contemporary Issues (.5)
- Psychology (.5)
- Sociology (.5)
- World Cultures (1)



Career Cluster: Health Sciences

Pathway: Allied Health

Sample Occupations Relating to Allied Health

Nurse	Exercise Physiologist	Physical Therapist
Pediatrician	Pulmonary Specialist	X-Ray Technician
Psychologist	Medical Assistant	Cardiac Rehabilitation
Phlebotomist	Massage Therapist	Physicians Assistant
Occupational Therapist	Dietician	Anesthesiologist
Speech Therapist	Athletic Trainer	Audiologist
Optometrist	Surgical Technologist	General Practitioner

Pathway Courses & Enrichment Suggestions

Required Pathway Courses:

- Careers in Health (1) *

Additional Pathway Choices:

- Foods and Nutrition 1 (.5)
- Essentials of Algebra 2 (1)
- Human Biology (1)
- Anatomy and Physiology (1)
- CP Physics w/ Lab (1)
- Psychology (.5)
- Honors Latin I (1)

*** Students who pass these courses plus Algebra 1 and Algebra 2, Chemistry and/or Physics, and Communications/Speech and/or Business Communications may qualify for college credit at QVCC.**



Career Cluster: Information Technology

Pathway: Programming & Software Development

Sample Occupations Relating to Programming & Software Development

Software Engineer	Applications Analyst	Business Analyst
Computer Engineer	Data Modeler	Operating System Designer
Program Manager	Programmer	Programmer Analyst
Programming Engineer	Project Lead	Simulation Developer
Software Applications Specialist	Systems Analyst	Technical Writer
Test Engineer	Game Developer	Database Administrator

Pathway Courses & Enrichment Suggestions

Required Pathway Courses:

- Introduction to Programming (1) *
- Visual Basic – Honors (1)

Additional Pathway Choices:

- Web Development (1)
- C Programming (QVCC # 210)
- Digital Marketing 1 and 2 (1 each)
- Database Management (QVCC #145)
- Operating Systems (QVCC #105)
- Technical Writing (QVCC #202)
- Trigonometry, Pre-Calc., College Calc. or AP Calc (1 each)

*** Students who pass these courses plus Algebra 1 and Algebra 2, Chemistry and/or Physics, and Communications/Speech and/or Business Communications may qualify for college credit at QVCC.**



Career Cluster: Information Technology

Pathway: Interactive Media/ Web Development

Sample Occupations Relating to Interactive Media/Web Development

3D/2D Developer	Programmer	Technical Writer
Motion Graphics Specialist	Virtual Reality Specialist	Simulation Developer
Web Developer	Game Developer	Production Assistant
Media Developer	Webmaster	Media Specialist
Instructional Designer	Site Developer	Advertising Specialist
Web Administrator		

Pathway Courses & Enrichment Suggestions

Required Pathway Courses:

- Introduction to Programming (1)
- Web Development (1) *
- Digital Marketing 1 (1) *

Additional Pathway Choices:

- Intro. to Studio Production (.5)
- Technical Writing (QVCC #202)
- Two Dimensional Design (QVCC #121)
- Digital Marketing 2 * (1)
- Computer Animation (QVCC #271)
- Digital Photography 1 (.5)
- Entrepreneurship and Marketing (1)

*** Students who pass these courses plus Algebra 1 and Algebra 2, Chemistry and/or Physics, and Communications/Speech and/or Business Communications may qualify for college credit at QVCC.**

Can Students Earn College Credit while in High School?

YES, STUDENTS CAN GET A "JUMP START"

1. Quinebaug Valley Community College Career Pathway Articulation

Many of the Pathways are associated with the free college credit program at Quinebaug Valley Community College - which QVCC refers to as *College Career Pathways*. Students who take Killingly High School courses equivalent to QVCC courses will earn college credit **AT NO COST TO THE STUDENT**.

Students usually take a sequence of courses in a career area of study in addition to applied academic courses. Killingly's Articulation Agreements link with QVCC's post-secondary certificate or degree programs and may lead to a two-year or four-year college degree. Students who take courses in one of twelve (12) career areas of concentration and pass selected math, science, and communication courses *may earn up to 13 college credits*. Upon successful completion of the program, students are accepted at QVCC or can request that an official college transcript be sent to another college.

Below are titles of courses offered at KHS and then the course equivalent offered at QVCC

KHS	QVCC	College/Credits	Example
Anatomy & Physiology or Physics or CP Chemistry	Human Biology CP Physics Chemistry	4 4 4	4
CP Algebra 1 & 2	Intermediate Algebra	3	3
Communications & Speech Business Communication	Fundamentals of Human Comm. Business/Professional Comm.	3 3	3
Accounting 1 & 2	Financial Accounting	3	
Advanced Computer Applications	Intro. to Software Applications	3	
Computer Networking	Networking Essentials	3	
Computer Repair	Intro. to Computer Hardware	3	
Digital Marketing 1 & 2	Desktop Publishing	3	3
Early Childhood Education	Intro. to Early Childhood Ed.	3	
Graphic Design 1 & 2	Computer Graphics	3	
Introduction to Programming	Structured Programming	3	
Office Technology	Integrated Office	3	
Digital Photography 1 & 2	Photography I	3	
Digital Photography 3	Photography II	3	
Web Development	The Internet	3	
Mechanical Drafting	Drafting	3	
Architectural Design	CAD 117	3	
Construction Applications	Exterior Finishes	3	
AutoCAD	Introduction to CAD	3	
Total of 13 College Credits			13

- 2. 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 advance 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). QVCC will waive the tuition, college fee, and application fee for this program. The credits could possibly transfer to the student’s college of choice after graduation. Students must take a Basic Skills Assessment only if a prerequisite in English or Math is required for the college course.
- 3. Quinebaug Community College “Running Start” Program**
By participating in this program seniors spend their entire year at QVCC and are able to earn dual credit to meet high school and college requirements. The program is open to **seniors** who hold a minimum of 2.8 GPA. Students must obtain recommendation by their counselor and permission from parent/guardian. Application deadlines are May 30th for the fall semester and November 30th for the spring semester and **must be done in the student’s junior year**. Students are assigned a college advisor who is familiar with the needs of high school requirements. Students must maintain a full-time semester schedule (4 courses) and must also meet remaining high school graduation requirements. Also, students may take Virtual High School Online Courses to further enrich their career pathway experience after consulting the pathway teacher. All expenses are paid by the student/family. **Financial Aid is not available** to high school students. (**One class per semester will be free**, per criteria of the “High School Partnership Program”). For more details, students are asked to meet with their counselor.
- 4. 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. The student can transfer the course credit to KHS for high school credit (1/2 high school credit for semester college course).
- 5. 5th-Year at QVCC for High School Completion**
A 5th-year student may opt to finish high school by taking classes as QVCC. The student would receive high school and college credit. All expenses are paid by the student/family, however, there may be opportunities for financial assistance available.
- 6. 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 will earn college credit if they take and pass the Advanced Placement Test with a 3 or higher.
- 7. AP/UCONN Honors English**
Students may earn four (4) college credits in literature at the University of Connecticut by taking and passing the Advanced Placement Test in Literature/Composition with a score of three (3) or higher, students can earn college credit for the college of their choice.
The **Early Childhood Education** class is part of the UCONN Early College Experience and students get UCONN credit for nominal fee.
- 8. New England Institute of Technology Advanced Tech Program**
Several computer classes in **Cluster 3 & 8** can be applied toward college credit at the **New England Institute of Technology** in Warwick, Rhode Island.
Students who will be attending New England Institute of Technology have the opportunity of earning up to nine (9) quarter credit hours from NEIT and a tuition reduction based on the cost per credit rate for their computer programming and desktop publishing/digital media classes at Killingly High School. A student must achieve a grade of “B” or better and be recommended by their programming instructor to participate in this Advanced Tech Program.

SCHOOL-TO-CAREER PROGRAM

It is our continued goal to work and assist our student body to craft an individual student education and occupational plan that involves a process of career choice, identification of a career pathway and a variety of opportunities for post-secondary education through extensive career counseling, utilization of the Career Center, the School-to-Career office and meeting Performance Graduation Requirements.

The School-to-Career Program encourages students to choose a broad career pathway, or cluster, that relates to their aptitudes and interest. Each career cluster delivers core academics in a career context and provides similar work-based experiences. As students progress, they and parents learn of career options available to them and the education that is required for each option. The program emphasizes career exploration and guidance to help students discover career options and select courses for a smoother transition and more productive transition from high school.

Career Center

The **Career Center** houses computers with full internet access and a laser printer is also available for student use. Students may utilize these resources for class assignments on an *as available* basis. The Career Center maintains information where students can learn about available jobs, obtain scholarship information and applications and visit career related web sites. Among those valuable opportunities and activities that are offered through the School-to-Career Program and Career Center are:

- Job-Shadow Exploration
- Portfolio Development
- Volunteer Experiences
- Career Counseling
- Job Postings/Opportunities
- Employability Skill Development/Mock Interviews
- Speakers Bureau specifically aimed at connecting activities from community partners
- Apprenticeship Training Placement
- Career Fairs
- Company Tours

School-to-Career Advisory Board

Currently there are 5 specific Career Pathway Advisory Boards that support Killingly High Schools' School-to-Career Program. Membership is quite diversified with representation from education, industry, technical trades, students, alumni, Quinebaug Valley Community College and State Representatives.

Career Pathway Student Representatives

There are approximately 20 student representatives representing the 8 career pathways. Students take an active role in the development of topics to be discussed at scheduled Advisory Board Meetings. In addition, students take an active role in co-chairing scheduled meetings and developing leadership training workshops.

Career Pathway Alumni Association

The Career Pathway Alumni Association was developed in the fall of 2004. Graduates from each of the career pathways are encouraged to participate at a scheduled advisory board meeting. The long-term goal of the association is to provide vital resources to pathways to insure future growth and development.

