PAUL G. BLAZER HIGH SCHOOL

2020-21 COURSE CATALOG

60 Years of Excellence...
Notice of NON-DISCRIMINATION
The Ashland Independent School District does not discriminate on the basis of race, color, national origin, sex, disability, or age in its programs and activities and provides equal access to the Boy Scouts and other designated youth groups. The following person has been designated to handle inquiries regarding the non-discrimination policies:

Lisa Henson, Director of Student Services
1820 Hickman St
Ashland, KY 41101
606-327-2706

For further information on notice of non-discrimination, visit https://wdcrohcbolp01.ed.gov/cfapps/OCR/contactus.cfm for the address and phone number of the office that serves your area, or call 1-800-421-3481.
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Course Selection Procedures

The 2020-21 Course Catalog for Paul Blazer High School describes all courses that are currently being offered at Paul Blazer. The offerings are arranged alphabetically by department. Each course description gives a brief description of the course content, length of course, grades available for enrollment, prerequisites, and any course fees for supplies needed to complete the course.

Students and parents work with school staff throughout the year to explore future courses and students develop a four year graduation plan as they meet with the school counselors to complete the Individual Learning Plan. Working with their parents, teachers, and school counselor they will select courses that are appropriate for their future plans. Once course request forms have been completed and returned, students will have individual conferences with their assigned counselor to evaluate their course selections, review their high school transcript, and discuss their future career and educational plans. These conferences are conducted during the school day and students need to ensure that they make their scheduled appointment. Conferences are conducted by grade and the schedules are posted throughout the school and in each classroom. Parents may attend the conference or they may contact their child’s counselor for more information. Large group parent meetings are conducted prior to students completing the course request form.

Drop/Add Policy

After each student has completed a request form, the school administration team enters each course request into Infinite Campus to begin the development of a master schedule. Master Schedule development is entirely student centered and developed solely by student requests and available staffing. Schedule changes will only be allowed with administrative approval. Drop and add will only be allowed if there has been a scheduling error or there is evidence that a student will not be successful in a course. Schedule changes will not be allowed based on student desire to change period, teacher, lunch period, etc. Schedule changes related to meeting graduation requirements will be allowed.
Paul Blazer High School Graduation Requirements (Class of 2020-21)

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4 Credits (English 1, 2, 3, and 4)</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3 Credits (Algebra 1, Geometry, Algebra 2, and a fourth year of Math)</td>
</tr>
<tr>
<td>Science</td>
<td>3 Credits (Credits must incorporate Physical Science, Life Science, and Earth/Space Science)</td>
</tr>
<tr>
<td>Social Studies</td>
<td>3 Credits (Credits must include World History, United States History, and an elective)</td>
</tr>
<tr>
<td>Arts/Humanities</td>
<td>1 Credit</td>
</tr>
<tr>
<td>Health</td>
<td>½ Credit</td>
</tr>
<tr>
<td>Physical Education</td>
<td>½ Credit (student may complete PE, Advanced Conditioning, or JROTC)</td>
</tr>
<tr>
<td>Electives</td>
<td>9 Credits (Should be based on student career goals as indicated in their Individual Learning Plan (ILP).)</td>
</tr>
<tr>
<td>Total Credits</td>
<td>24 Credits</td>
</tr>
</tbody>
</table>
**Kentucky Department of Education: New Minimum Graduation Requirements**

### Foundational
- **4 English Credits**
  - English I
  - English II
- **4 Math Credits**
  - Algebra I
  - Geometry
- **3 Social Studies Credits**
  - Social Studies
  - Social Studies with an LP
- **3 Science Credits**
  - Lab-based Science
  - Lab-based Science

### Personalized
- **Additional English aligned with ILP**
- **Additional Math aligned with ILP**
- **Additional course options could include, but are not limited to:**
  - Algebra II, Precalculus, College Algebra, AP Calculus, duel credit math, duel credit CTE math, etc.

### Other Credits
- **1/2 Health, 1/2 PE**
- **Visual/Performing Arts**
- **6 credits aligned with ILP**

### Graduation Qualifiers for Students Entering High School in 2019-2020 (Complete One):

- **Precollege curriculum as established by the Council on Postsecondary Education in 13 KAR 2:020**
- **Benchmark score in one section of a college admissions placement examination as established by the Council on Postsecondary Education in 15 KAR 2:020**
- **Three postsecondary credit hours or more of a Kentucky Department of Education-approved dual credit course with a grade of C or higher**
- **One course and corresponding assessment meeting the following criteria:**
  - Advanced placement (AP) with a score of three or higher
  - Cambridge Advanced International (CAI) with a score of 36 above benchmark
  - International Baccalaureate (IB) with a score of a 5 or higher

### Graduation Prerequisites for Students Entering High School in 2020-2021 (Meet One or a Combination of the Following to Demonstrate Basic Competence in Reading and Math):

- **Score proficient or higher for reading or mathematics or both on the state-required assessment**
- **Pass state-mandated civics test**
- **Successfully complete a course of program in financial literacy**
- **Score proficient or higher for reading or mathematics or both on the state-required assessment for 8th grade**
- **Demonstrate competency in technology**
- **Completion of an annual ILP (6th to 12th grade)**

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<table>
<thead>
<tr>
<th>YEAR</th>
<th>MINIMUM NUMBER OF CREDITS</th>
<th>ENGLISH/LANGUAGE ARTS</th>
<th>SOCIAL STUDIES</th>
<th>MATH</th>
<th>SCIENCE</th>
<th>OTHER CREDITS</th>
<th>GRADE 10 EXAMS</th>
<th>OTHER REQUIREMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRADE NINE STUDENTS ENTERING 2018-2019 SCHOOL YEAR</td>
<td>22 credits</td>
<td>Four credits: English I, II, III, and IV</td>
<td>Three credits</td>
<td>Three credits: Algebra I, Geometry, and Algebra II; A math course or equivalent will be taken each year of high school</td>
<td>Three credits</td>
<td>1/2 credit: Health</td>
<td>Courts only toward accountability spring of 2020</td>
<td>Civics test; demonstrated performance based competency in technology; seven elective credits</td>
</tr>
<tr>
<td>GRADE NINE STUDENTS ENTERING 2019-2020 SCHOOL YEAR</td>
<td>22 credits</td>
<td>Four credits: English I, II, and two other personalized credits covering the standards</td>
<td>Three credits</td>
<td>Four credits: Algebra I, Geometry, and two other personalized credits covering the standards</td>
<td>Three credits</td>
<td>1/2 credit: Health</td>
<td>Courts only toward accountability spring of 2021</td>
<td>Civics test; Complete at least one graduation qualifier listed in 704 KAR 3:305; demonstrated performance based competency in technology; six elective credits</td>
</tr>
<tr>
<td>GRADE NINE STUDENTS ENTERING 2020-2021 SCHOOL YEAR</td>
<td>22 credits</td>
<td>Four credits: English I, II, and two other personalized credits covering the standards</td>
<td>Three credits</td>
<td>Four credits: Algebra I, Geometry, and two other personalized credits covering the standards</td>
<td>Three credits</td>
<td>1/2 credit: Health</td>
<td>For graduation and accountability spring of 2022 (This is only one option for demonstrating the prerequisites)</td>
<td>Civics test; Financial literacy standards program or course; Complete at least one graduation qualifier and meet at least one graduation prerequisite listed in 704 KAR 3:305; demonstrated performance based competency in technology; six elective credits</td>
</tr>
</tbody>
</table>

All required courses must be aligned to the Kentucky Academic Standards. These are state minimum standards. Standards may vary by district.
# PAUL BLAZER HIGH SCHOOL SCHEDULING GRID

<table>
<thead>
<tr>
<th>9th GRADE</th>
<th>10th GRADE</th>
<th>11th GRADE</th>
<th>12th GRADE</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>English</td>
<td>English</td>
<td>English</td>
</tr>
<tr>
<td>Math</td>
<td>Math</td>
<td>Math</td>
<td>Math</td>
</tr>
<tr>
<td>Social Studies</td>
<td>Social Studies</td>
<td>Social Studies</td>
<td>Elective</td>
</tr>
<tr>
<td>Science</td>
<td>Science</td>
<td>Science</td>
<td>Elective</td>
</tr>
<tr>
<td>Health/PE</td>
<td>Elective/ Humanities</td>
<td>Elective</td>
<td>Elective</td>
</tr>
<tr>
<td>Elective/ Humanities</td>
<td>Elective</td>
<td>Elective</td>
<td>Elective</td>
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<tr>
<td>Elective</td>
<td>Elective</td>
<td>Elective</td>
<td>Elective</td>
</tr>
</tbody>
</table>

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**Kentucky Council On Postsecondary Education Graduation Requirements**

Students who wish to attend a public four year university upon graduation must complete the minimum graduation requirements established by the Kentucky Council on Postsecondary Education. Those requirements differ from the graduation requirements for a high school diploma and include the following:

**Pre-College Curriculum**

**English/Language Arts**  
4 credits required English I English II English III English IV (or AP English)

**Mathematics**  
3 credits required Algebra I Algebra II Geometry (see note below on substitutions)

**Science**  
3 credits required Credits to include life science, physical science, and earth/space science (at least one lab course)

**Social Studies**  
3 credits required From U.S. History, Economics, Government, World Geography and World Civilization

**Health**  
½ credit required
Physical Education
   ½ credit required

History and Appreciation of Visual, Performing Arts
   1 credit required History and appreciation of visual and performing arts or another arts course that incorporates such content

World Language
   2 credits required or demonstrated competency

Electives
   7 credits required (5 rigorous) Recommended strongly: 1 or more courses that develop computer literacy
   [In 2004, requirement is 5 credits (3 rigorous)]

TOTAL CREDITS:   22   15 required credits; 7 elective credits (2002) [17 required credits; 5 elective credits (2004)]

A student may substitute an integrated, applied, interdisciplinary, or higher level course within a program of study if the substituted course offers the same or greater academic rigor and the course covers or exceeds the minimum required content.

Rigorous electives should have academic content at least as challenging as that in courses required in the minimum high school graduation requirements. These electives also should be in social studies, science, math, English and language arts, arts and humanities, foreign language, and, above the introductory level, in agriculture, industrial technology, business, marketing, family and consumer sciences, health sciences, and technology education and career pathways. Electives in physical education and health are limited to one-half unit each.

More information is available at:
http://education.ky.gov/curriculum/hsgradreq/Pages/default.aspx

Special Note:

Graduation requirements are currently under review by the Kentucky Department of Education. New requirements were not available at the time of this publication; once new requirements are adopted they will be shared all stakeholders. [January 15, 2019]
Paul Blazer High School uses a variety of assessments to make informed decisions about instructional practices, student needs, intervention, and student course selection. Assessments such as ACT, End of Course (EOC) Exams, and K-Prep.

Student participation in transition/enrichment classes is also determined by performance on the ACT exam. The ACT (Grade 11) exam are also part of the state accountability model and students who do not meet established benchmarks on these exams are required to receive transition/remediation. Below are the established benchmarks for each exam:

**The Benchmarks**

The ACT College Readiness Benchmarks are scores that represent the level of achievement required for students to have a 50% chance of obtaining a B or higher or about a 75% chance of obtaining a C or higher in corresponding credit-bearing courses.* Benchmarks have been established for the ACT and ACT Aspire subject-area tests and the supplemental STEM and ELA scores.

The ACT Readiness Benchmarks for ACT Aspire are linked to the ACT College Readiness Benchmarks. Students at or above the benchmark are on target to meet the corresponding ACT College Readiness Benchmark in grade 11.

<table>
<thead>
<tr>
<th>Subject</th>
<th>ACT Aspire Grade 9</th>
<th>ACT Aspire Grade 10</th>
<th>The ACT Test</th>
<th>First Year College Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>426</td>
<td>428</td>
<td>18</td>
<td>English Composition</td>
</tr>
<tr>
<td>Math</td>
<td>428</td>
<td>432</td>
<td>22</td>
<td>College Algebra</td>
</tr>
<tr>
<td>Reading</td>
<td>425</td>
<td>428</td>
<td>22</td>
<td>Social Sciences</td>
</tr>
<tr>
<td>Science</td>
<td>430</td>
<td>432</td>
<td>23</td>
<td>Biology</td>
</tr>
<tr>
<td>ELA</td>
<td>426</td>
<td>428</td>
<td>20</td>
<td>English Composition and Social Sciences</td>
</tr>
<tr>
<td>STEM</td>
<td>434</td>
<td>437</td>
<td>26</td>
<td>Calculus, Chemistry, Biology, Physics, and Engineering</td>
</tr>
</tbody>
</table>

*Based on a sample of 214 institutions and more than 230,000 students from across the United States, the Benchmarks are median course placement values for these institutions and as such represent a typical set of expectations.
Kentucky CPE Benchmarks

The Kentucky Council for Postsecondary Education (CPE) has also established benchmark scores, based on the performance of first year college students. These scores differ slightly from the ACT benchmark scores for the ACT exam. The following ACT scores are required to enter a postsecondary institution within Kentucky:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>18 or higher</td>
</tr>
<tr>
<td>Reading</td>
<td>20 or higher</td>
</tr>
<tr>
<td>Math</td>
<td>19 or higher</td>
</tr>
<tr>
<td>Science</td>
<td>24 or higher</td>
</tr>
</tbody>
</table>

Student Intervention Requirements

Students who do not meet these benchmark scores on the ACT prior to their senior year at Paul Blazer will receive additional preparation and instruction. Upon completion of a transitional program and intervention, seniors are encouraged to register for a national ACT exam.
Early College Program – Dual Enrollment Courses

Early College Program courses are available to eligible juniors and seniors at Paul Blazer High School. The program offers courses in English/Composition, United States History, Public Speaking, and College Algebra. Currently these courses are tuition free and available to students who meet the CPE Benchmarks applicable to the course(s) they wish to take. Students may earn up to 12 college credit hours per academic year. Several Early College Programs are available with ACTC.

Students wishing to take Early College Programs, must have met the required benchmarks on the ACT, complete an Admissions Application to the appropriate college/university, and submit the appropriate test scores. This should be completed during the individual scheduling conference conducted during the spring of each academic year. Course fees are currently assessed at 1/3 the tuition rate per credit hour. Seniors may receive scholarship money for 6 credit hours. Our current agreement with MSU allows students to take additional credit hours at no charge, provided that the university received that student’s scholarship money from the Dual Credit Scholarship program. Any changes made in this agreement will be forwarded to students and parents.

Per current site-base policy these courses will receive a weighted grade. Students are cautioned that enrollment in the Early College Program results in a college transcript that will be maintained at the applicable institution and that transcript must be forwarded to the institution they attend following graduation. Coursework currently offered is awarded college credit either with Morehead State University or Ashland Community and Technical College.

The following courses are currently offered as part of the Early College/Dual Enrollment Program:

**ENGLISH 100 (COLLEGE WRITING I) AND ENGLISH IV (SENIOR ENGLISH) [230116DC]:**
½ credit (Weighted Course) Open to 12

The course is designed to develop students’ skills in reading introductory college-level texts with comprehension and critical awareness; writing effective academic prose; making use of current technologies to locate information relevant to select topics; and making effective and appropriate use of a modest number of sources in expository and persuasive/argumentative essays. This course satisfies the Core Writing I general education requirement. Senior English will explore and analyze British Literature and non-fiction from ancient to classical with written assignments and presentations. This is a dual credit course with permanent college credit on the MSU transcript and high school credit on the Blazer transcript. At least 1 major college text book and possibly other smaller texts must be purchased by each student by the beginning of the semester. **Students completing this course will receive 3 Credit Hours with Morehead State University.**

*Prerequisite: Meet the English (18) and Reading (20) benchmark on ACT and a B average in Junior English or strong recommendation from Junior English teacher.*
ENGLISH 200 (COLLEGE WRITING II) AND ENGLISH IV (SENIOR ENGLISH) [23011161DC]:
½ credit (Weighted Course) Open to 12
An exploration of diverse texts with an emphasis on articulating written responses to these works from interdisciplinary perspectives. Building on information-literacy skills developed in Writing I and other general education courses, students read, analyze, and evaluate diverse cultural texts from different perspectives to find connections across the natural sciences, the social and behavioral sciences, and the humanities. This course satisfies the Core Writing II general education requirement. Senior English will explore and analyze British Literature and non-fiction from classical to contemporary with written assignments and presentations. This is a dual credit course with permanent college credit on the MSU transcript and high school credit on the Blazer transcript. At least 1 major college text book and possibly other smaller texts must be purchased by each student by the beginning of the semester. Students completing this course will receive 3 Credit Hours with Morehead State University.
Prerequisite: successful completion of ENG 100 (College Writing I).

PUBLIC SPEAKING [231011DC]
½ credit (Weighted Course) Open to 12
An overview of the field of communications and its various sub-disciplines, including public relations, leadership, group facilitation, training, gender communication, and conflict treatment, with a focus on history of the field and communication theories that support practical activity in professions and society and an emphasis on face-to-face and device-mediated messaging. The course will include practice and study of speech communication fundamentals, including interpersonal skills, critical listening, small group problem solving, information gathering, and preparation and delivery of a variety of informal presentations. Students completing this course will receive 3 Credit Hours with Morehead State University.
Prerequisite: It is strongly recommended that students meet the English (18) and Reading (20) benchmark on ACT and a B average in Junior English or strong recommendation from Junior English teacher.

½ credit (Weighted Course) Open to 11
This course is a freshman college level course. HIS 108 is a very rigorous course that focuses on developing students’ understanding of American History from 1492 to the Civil War. The course has students investigate the content of U. S. History for significant events, individuals and develop historical thinking skills. Students will analyze primary and secondary sources, make historical comparisons, and write essays. Solid reading and writing skills, along with a willingness to devote considerable time to homework and study are necessary to succeed. In addition, attendance is extremely important in this class.
Students passing HIS 108 will receive 3 credit hours with ACTC.
Prerequisite: ACT Reading Benchmark (20) and students must have maintained an “A” average in ACC World Civilizations or have recorded an “A” in all four quarters of CCR World Civilizations (not an average).

HIS 109 [4508141DC] HISTORY OF THE US SINCE 1865 (SPRING SEMESTER)
½ credit (Weighted Course) Open to 11
This course is a freshman college level course. HIS 109 is a very rigorous course that focuses on developing students’ understanding of American History from Reconstruction to the present day. The course has students investigate the content of U. S. History for significant events, individuals and develop historical thinking skills. Students will analyze primary and secondary sources, make historical comparisons, and write essays. Solid reading and writing skills, along with a willingness to devote considerable time to homework and study are necessary to succeed. In addition, attendance is extremely important in this class.
Students passing HIS 109 will receive 3 credit hours with ACTC.
Prerequisite: ACT Reading Benchmark (20) and students must have maintained an “A” average in ACC World Civilizations or have recorded an “A” in all four quarters of CCR World Civilizations (not an average).
COLLEGE ALGEBRA [270320DC]
½ credit (Weighted Course) Open to 11, 12
Dual Credit Course
This course is designed to be equivalent to a credit-bearing College Algebra course for students intending to enter into post-secondary education. The content goes beyond a traditional Algebra 2 course. **Students completing this course will receive 3 Credit Hours with Morehead State University.**
*Prerequisite:* Pre-Calculus, ACT mathematics subscore of at least 22

BIOLOGY 105 – INTRODUCTION TO BIOLOGICAL SCIENCES [302646DC]
1 credit (Weighted Course) Open 11, 12
This course provides students with an introduction to the major themes of the biological sciences at the college level. This course differs significantly from an initial high school biology course because it has been designed to be reflective of a college general education course for non-biology majors. Students will be using a college-level textbook and will be studying the content with a greater range and depth. This course cannot be applied to a biology major, biology minor, or pre-professional degrees that require advanced science courses (such as pre-med). **Students completing this course will receive 3 Credit Hours with Morehead State University.**

BIOLOGY 137[302631DC]/139[3026311DC] – HUMAN ANATOMY & PHYSIOLOGY I
1 credit (Weighted Course) Open 11, 12
The interrelationship of structure and function of each body system will be presented in two semesters. The first semester will include basic chemistry, cell structure, cell physiology, metabolism, tissues, and integumentary, skeletal, muscular, and nervous systems. Reading and English assessment exam scores above the KCTCS developmental level and a mathematics placement score above the score range for MAT 065 or successful completion of the prescribed developmental course(s) or consent of the instructor. Lecture: 3.0 credits; Lab: 1.0 credit.

Course Requisites: Reading and English assessment exam scores above the KCTCS developmental level and a mathematics placement score above the score range for MAT 65 or successful completion of the prescribed developmental course(s) or consent of the instructor.

Lecture: 3.0 credits; Lab: 1.0 credit

ALLIED HEALTH SCIENCE - 115 MEDICAL TERMINOLOGY [170131DC]:
½ credit (Weighted Course) Open to 11, 12
A course designed to develop a working knowledge of language in all health science major areas. Students acquire word-building skills by learning prefixes, suffixes, roots and abbreviations. Students will learn correct pronunciation, spelling and application rules. By relating terms to body systems, students identify proper use of words in a medical environment. Knowledge of medical terminology enhances the student’s ability to successfully secure employment or pursue advanced education in health care. This course is offered for dual-credit with Ashland Community and Technical College. **Students should expect to pay tuition and any fees associated with this course.**

INTRO TO COMPUTERS/MICROSOFT OFFICE SPECIALIST (MOS/MCAS) [070750DC]:
1 Credit (Weighted Course) Open 11, 12
This course is designed to be equivalent to CIS 101/Computers for Learning. Students will learn effective strategies for learning and applying microcomputer software including word processing, spreadsheet, presentation and database management. The course introduces concepts, terminology, and tools of the microcomputer software operating and application system environment. Introduction to the effective utilization of networking for communication, research, and information downloading is also incorporated in the course. Emphasis is on preparing the student to use computer technology effectively in education and work environments. Advanced functions and integration of Microsoft Excel, Word, and PowerPoint will be taught. Students will work toward MOS Certification in each of these Microsoft areas. **Students completing this course will receive 3 Credit Hours with Morehead State University. Prepare for possible software fee.** **Prerequisite:** 3.0 Unweighted GPA and 18 or higher composite on ACT
KHEAA-Administered Programs - Dual Credit Scholarship Program

The Dual Credit Scholarship provides assistance for Kentucky high school and home school students who are taking dual credit classes at a participating Kentucky college or university. Eligible students may receive scholarships for up to two classes.

- Student must:
  - Be a Kentucky resident; and
  - Be enrolled in a Kentucky public or private high school, or Kentucky home school, in grades 11 or 12; and
  - Be enrolled, or approved for enrollment, in an approved dual credit class at a participating Kentucky college or university; and
  - Complete a 30-minute college success counseling session each year a scholarship is awarded.

- Award:
  - Equal to dual credit class amount charged by the participating college or university.
  - Limited to two dual credit classes.
  - May not be used for developmental, remedial or repeated classes.

- Participating colleges and universities have agreed to:
  - Charge no more than the dual credit tuition ceiling rate, which is 1/3 of the KCTCS hourly tuition rate ($58 per credit hour for the 2019-2020 year), for all dual credit classes taken by Kentucky high school and home school students regardless of scholarship eligibility.
  - Charge no additional fees to dual credit students including, but not limited to, lab fees, special equipment and admission/application fees.

- Application:
  - Kentucky public and private high school students:
    - The student’s high school will send information to KHEAA identifying the students taking dual credit. KHEAA will, in turn, contact students to obtain college and semester preferences for scholarship use.
  - Kentucky home school students:
    - Complete and submit the Dual Credit Scholarship Application.
    - The deadline for submitting a 2019-2020 year application is October 1, 2019 for the fall semester and March 1, 2020 for the spring semester.

- Other:
  - KHEAA will notify all applicants of their award or denial status.
  - Scholarship funds will be disbursed by KHEAA to the student’s participating college or university upon receipt of enrollment verification.
Accelerated, Advanced Placement, & Dual Credit

**English – Language Arts**
- Accelerated English 1
- Accelerated English 2
- AP Language and Composition
- AP Literature and Composition
- English 100 – Writing I
- English 200 – Writing II

**Social Studies**
- Accelerated Integrated Social Studies
- Accelerated World Civilizations
- AP United States History
- AP US Government and Politics

**Mathematics**
- Accelerated Geometry
- Accelerated Algebra 2
- Accelerated Pre-Calculus
- AP Calculus AB
- AP Statistics
- MATH 152 – College Algebra

**Science**
- Accelerated Biology
- Accelerated Chemistry
- AP Biology
- AP Chemistry
- AP Physics
- AP Environmental Science
- Biology 105 – Introduction to Biological Sciences
- Biology 137 – Human Anatomy and Physiology I
- Biology 139 – Human Anatomy and Physiology II

**Arts/Humanities**
- AP Music Theory
- AP Studio Art
- AP Art History

**World Languages**
- Accelerated Spanish 2 and 3
- Accelerated French 2 and 3
- AP Spanish Language
- AP Spanish Literature
- AP French Language

**Program Note**

1. Advanced Placement courses and Early College courses taught by Blazer Faculty, will receive a weighted grade as follows: A=5, B=4, C=2.5, D=1, F=0.

2. Students may qualify for college credit in Advanced Placement courses by taking the exam at the end of the course. Students should discuss qualifying scores at the institution they plan to attend.

3. Advanced Placement Exams will be administered according to the AP Exam schedule – exams are typically scheduled during the first two weeks of May, students are required to pay the required fee for each exam taken. Students on free or reduced lunch may apply for a fee reduction.

**AP Exam Fees**

The fee for each exam is $93, with schools retaining a $9 rebate per exam. Students who qualify for Federal Free/Reduced Lunch program may apply for a fee reduction and/or assistance. Students should see their school counselor prior to exam registration. (Fee subject to change by College Board prior to test dates.)

To learn more visit: [AP Students](#)
ART DEPARTMENT: Jennifer Spade, Chair

ARTS & HUMANITIES APPRECIATION [500111]:
1 credit Open 9, 10, 11, 12
This course is a survey of those ideas and concepts that have most shaped the course of humanity’s artistic forms, from prehistoric roots to the present. Trends and movements in music, dance, the visual and performing arts are emphasized; but students will also study aspects of literature, philosophy, and technology as they have developed in Western Culture. This course may be used as a graduation requirement for Arts and Humanities.

VISUAL ART 1 [500710]:
1 credit Open to 9, 10, 11, 12
This general course is the beginning art class for high school students. This course utilizes the elements and principles of art and artistic awareness under studio conditions. All art experiences are based on the elements and principles of design or time periods in art history. Students become acquainted with a number of different media and are encouraged to experience, invent, and translate learning from one medium to another. The specific program content includes: drawing, color, perspective, composition, art vocabulary, art history, painting, design, and three-dimensional experiences. A $5.00 fee for consumable supplies is required. This course also will include the core curriculum for history and appreciation of visual and performing arts and may be used as the Kentucky High School Graduation Requirement for Arts and Humanities.

VISUAL ART 2 [500711]:
1 credit Open to 9, 10, 11, 12
This course offers the student an opportunity to advance to a higher level of understanding of all the facets of art introduced in Visual Art 1. An in-depth study of the elements of composition will be required in drawing and painting. New drawing and painting tools and techniques will be introduced. Introductory color theory will be advanced to include acrylic, tempera, and watercolor painting. The student will gain more experience in perspective, composition and design, and three-dimensional projects. Graphic design will be explored. Sufficient knowledge of art history and theory will allow the student perspective for making or assessing judgments about works of art. Original ideas and designs will be stressed. A $10.00 fee for consumable supplies is required. 
Prerequisite: Visual Art 1
Note: Incoming 9th grade students may enroll in Visual Art 2 based on ability and teacher recommendation. Students would be required to complete the Visual Arts Specialization to complete the Art/Humanities graduation requirement.

DRAWING/PAINTING [500712]:
1 credit Open to 10, 11, 12
The first semester of this course will focus on a wide variety of drawing experiences both in and out of the classroom. Drawing media will include: graphite, charcoal, pen and ink, colored pencils, pastels, etc. The second semester will focus on painting techniques where students will learn color theory. Painting media will include: water color and acrylic. A $20.00 fee for consumable supplies is required.
Prerequisite: Visual Art 1 & 2.

ADVANCED ART [500714]:
1 credit Open to 11, 12
Emphasis is placed upon individual style and skill. Students will master and apply color theory and perspective. Originality and using all the elements of composition and design will be stressed. A $20.00 fee for consumable supplies is required.
Prerequisite: Visual Art 1 & 2, Drawing/Painting
DIGITAL PHOTOGRAPHY & DESIGN [500720]:
1 credit Open to 11, 12
Emphasis is on photography. Class will center on photography techniques and applications. Photo manipulation and graphic design will be explored. A $20.00 fee for consumable supplies is required.
Prerequisite: Visual Art 1 & Art 2 and Teacher Recommendation.

ADVANCED PLACEMENT STUDIO ART [500716]:
1 credit (Weighted Course) Open to 12
Advanced Placement Art is designed for students who have exhibited exceptional ability and intend to major in art in college. Intense work in a variety of media will be employed to prepare the student for A.P. Portfolio credit. Students must exhibit their work and summer course work is required. Performance-based skills are taught and evaluated. Cost per student for portfolio preparation will be $80.00 to $125.00. Production and submission of AP Portfolio is required with portfolio reviews in April of junior year.
Prerequisite: Visual Art 1 and 2, Advanced Art, and teacher recommendation
Note: Failure to complete summer work will not result in schedule change.

ADVANCED PLACEMENT ART HISTORY [500721]:
1 credit (Weighted Course) Open to 11, 12
The AP Art History course should engage students at the same level as an introductory college art history survey. Such a course involves critical thinking and should develop an understanding and knowledge of diverse historical and cultural contexts of architecture, sculpture, painting and other media. It also provides an opportunity for schools to strengthen an area neglected in most curricula. In this course, students examine and critically analyze major forms of artistic expression from the past and the present from a variety of cultures. While visual analysis is a fundamental tool of the art historian, art history emphasizes understanding how and why works of art function in context, considering such issues as patronage, gender, and the functions and effects of works of art. Many colleges and universities offer advanced placement and/or credit to students who perform successfully on the AP Art History Exam. (This course does not fulfill the Arts and Humanities graduation requirement.)
© 2014 The College Board
Prerequisite: Students must meet two of the following: ACT benchmark for Reading (21 or higher), or an "A" or "B" in any Accelerated or AP Social Studies class taken as a Sophomore or Junior OR an "A" in US History.

ARTS AND HUMANITIES SPECIALIZATION – VISUAL ARTS
3 or 4 credits Open to 9, 10, 11, 12
Students wishing to pursue a specialized arts graduation credit may, through indication on his/her Individual Learning Plan AND with teacher recommendation may enroll for a minimum of three (3) years of a standards-based Visual Arts course. Successful completion of a three-year course of study may be used as the Kentucky High School Graduation Requirement for Arts and Humanities.
DIGITAL LITERACY [060112]:
1 credit  Open to 9, 10, 11, 12
Digital Literacy is a full-year course, which enables students to use computer and application software including word processing, database, spreadsheets, Internet, and email to prepare elementary documents and reports. The impact of computers on society and ethical issues are presented.
Prerequisite: Basic keyboarding skills

MICROSOFT OFFICE SPECIALIST (MOS/MCAS) [070750]:
1 Credit  Open 11, 12
Students will have the opportunity to increase their computer skills. Advanced functions and integration of Microsoft Word, Excel, and PowerPoint will be taught. Students will work toward MOS Certification in one or more of these Microsoft areas. In addition students will utilize Internet access to complete various projects and GMetrix practice software.

ACCOUNTING AND FINANCE FOUNDATIONS [060122]:
1 credit  Open to 9, 10, 11, 12
This course will provide an introduction to both areas of accounting and finance. Topics will include banking, credit, financial literacy, career exploration, spreadsheet usage, and technical writing. The accounting principles taught in this course are based on double-entry system and include preparing bank reconciliations, payroll taxes, and financial statements. NOTE: This course will be offered on a rotation basis – Next offered 2021-2022 Academic Year.

FINANCIAL MANAGEMENT [070122]:
1 credit  Open to 11, 12
The accounting principles taught in this course include an in-depth study of accounting principles, procedures, and techniques used in keeping financial records for sole proprietorships, partnerships, and corporations. There is an emphasis on automated accounting. NOTE: This course will be offered on a rotation basis – Next offered 2021-2022 Academic Year. Suggested Prerequisite: Accounting and Finance Foundation

ADVANCED ACCOUNTING [070125]:
1 credit  Open 11, 12
College Accounting uses an integrated approach to teach accounting. Students first learn how businesses plan for and evaluate their operating, financing, and investing decisions and then how account systems gather and provide data to internal and external decisions makers. This year-long course covers all the learning objectives of a traditional college level financial accounting course, plus those from a managerial accounting course. Topics include an introduction to accounting, accounting information systems, time value of money, and accounting for merchandising firms, sales, and receivables, fixed assets, debt and equity. Other topics include statement of cash flows, financial ratios, cost-volume profit analysis and variance analysis.

BUSINESS MANAGEMENT (Introduction to Management) [060411]:
1 credit  Open to 11, 12
Business Management emphasizes the skills needed for managing a business that involves the selection and supervision of employees including efficient use of time, personnel, facilities, and financial resources. Students will explore forms of business ownership; typical business organizational structure; product or service promotion in business; effective communications; human relations skills required in dealing with employees; and effective management strategies used in personnel, finance, production, marketing, and information processing.
BUSINESS AND MARKETING ESSENTIALS (Business Principals and Applications) [060111]:
1 credit Open to 9, 10
Business Principles and Applications establish a basic foundation for further study in business courses and provide essential information for making financial and economic decisions. Students learn about the fundamentals of the American free enterprise system and world economics; application of sound money management for personal and family finances, credit management; consumer rights and responsibilities; forms of business ownership; risk and insurance; and the importance of international trade.

PERSONAL FINANCE (Financial Literacy) [060170]:
1 credit Open to 9, 10, 11, 12
This course is designed to provide students with the knowledge and skills to manage one’s financial resources effectively for lifetime financial security. Topics include economics, money in the economy, budgeting, credit, consumer rights, investments and retirement planning.

Information Technology

INTRODUCTION TO PROGRAMMING/JAVA SCRIPT [110809]:
1 Credit Open to 9, 10, 11, 12
This course focuses on the general writing and implementation of generic and atomized programs to drive operating systems. Instruction includes software design, languages, and program writing, and trouble-shooting. Students are introduced to fundamental programming concepts using an industry-specific or emerging programming language. Includes data types, control structures, simple data structures, error-handling, modular programming, information and file processing, and uniqueness of the language used in the course.

COMPUTATIONAL THINKING [110251]:
1 Credit Open to 10, 11, 12
Computational Thinking promotes understanding of computer programming and logic by teaching students to think like a computer. It covers skills needed to develop and design language-independent solutions to solve computer-related problems. Instruction covers development and design basics including use of variables, control and data structures, and principles of command-line and object-oriented languages.

Pre Law Studies
Students will obtain skills in preparation for legal careers in law firms, courtrooms, government, and businesses. Instruction will cover legal vocabulary and ethics, the philosophy and history of criminal justice, effective and persuasive communications (oral and written), and the state and federal court system.

INTRODUCTION TO CRIMINAL JUSTICE [461044]:
1 Credit Open to 9, 10, 11, 12
This course studies the history and philosophy of criminal justice, ethical considerations, the definition of crime, the nature and impact of crime, an overview of the criminal justice system including law enforcement, corrections, and the court systems. Offered again during the 2021-22 school year.

CRIMINAL INVESTIGATION [461043]:
1 Credit Open to 10, 11, 12
This course includes investigative theory, collection and preservation of evidence, sources of information, procedures for conducting interviews and interrogations, using forensic sciences, and preparing for cases and trials. Scheduling preference is given to students who have completed Introduction to Criminal Justice.
BUSINESS LAW [060121]:
1 Credit    Open to 9, 10, 11, 12
This course develops an understanding of legal rights and responsibilities in personal law and business law with applications applied to everyday roles as consumers, citizens, and workers. The student will have an understanding of the American legal system, courts/court procedures, criminal justice system, torts, the civil justice system, oral and written contracts, sales contracts and warranties, and consumer protection.

INTRO TO COMPUTERS/MICROSOFT OFFICE SPECIALIST (MOS/MCAS) [070750DC]:
1 Credit (Weighted Course)    Open 11, 12
This course is designed to be equivalent to CIS 101/Computers for Learning. Students will learn effective strategies for learning and applying microcomputer software including word processing, spreadsheet, presentation and database management. The course introduces concepts, terminology, and tools of the microcomputer software operating and application system environment. Introduction to the effective utilization of networking for communication, research, and information downloading is also incorporated in the course. Emphasis is on preparing the student to use computer technology effectively in education and work environments. Advanced functions and integration of Microsoft Excel, Word, and PowerPoint will be taught. Students will work toward MOS Certification in each of these Microsoft areas. Students completing this course will receive 3 Credit Hours with Morehead State University. Prepare for possible software fee. **Prerequisite: 3.0 Unweighted GPA and 18 or higher composite on ACT**
## Paul G. Blazer Career Pathway

**Program Area:** Business Education  
**Pathway:** Administrative Support CIP 52.0401.00

<table>
<thead>
<tr>
<th>GRADE</th>
<th>ENGLISH</th>
<th>MATH</th>
<th>SCIENCE</th>
<th>SOCIAL STUDIES</th>
<th>REQUIRED COURSES AND RECOMMENDED COURSES FOR PATHWAY</th>
<th>CAREER/TRANSITION-READY MEASURE</th>
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<tbody>
<tr>
<td>9TH</td>
<td>English 9</td>
<td>Algebra I</td>
<td>Integrated Science</td>
<td>Integrated Social Studies</td>
<td>Digital Literacy or Business Marketing Essentials*</td>
<td>Personal Finance or Accounting &amp; Finance Foundations **</td>
</tr>
<tr>
<td>10TH</td>
<td>English 10</td>
<td>Geometry</td>
<td>Biology</td>
<td>World Civilizations</td>
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</tr>
<tr>
<td>11TH</td>
<td>English 11</td>
<td>Algebra II</td>
<td>Chemistry</td>
<td>U.S. History</td>
<td>Microsoft Office Specialist (MOS)/Intro to Computers DE (Required)*</td>
<td>Personal Finance or Accounting &amp; Finance Foundations or Advanced Accounting**</td>
</tr>
<tr>
<td>12TH</td>
<td>English 12</td>
<td>Fourth Year of Math</td>
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<td>Microsoft Office Specialist (MOS)/Intro to Computers DE (Required)*</td>
<td>Personal Finance or Accounting &amp; Finance Foundations or Advanced Accounting**</td>
</tr>
</tbody>
</table>

*High Demand*

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*Complete 3 Credits in Required Courses – Digital Literacy, MOS/Intro to Computers, Accounting & Finance Foundations, Business and Marketing Essentials.*

**Choose 1 Credit in Required/Recommended Courses – Personal Finance or Advanced Accounting or Financial Management**

NOTE: Graduation requirements also include one Arts/Humanities credit, ½ credits in Health, and ½ credits in Physical Education.
# Paul G. Blazer Career Pathway

**Program Area:** Business Education  
**Pathway:** Accounting CIP 52.0301

<table>
<thead>
<tr>
<th>GRADE</th>
<th>ENGLISH</th>
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<td>Algebra II</td>
<td>Chemistry</td>
<td>U.S. History</td>
<td>Financial Management* Or Microsoft Office Specialist (Intro to Computers DE)</td>
<td>Introduction to Management**</td>
</tr>
<tr>
<td>12TH</td>
<td>English 12</td>
<td>Fourth Year of Math</td>
<td>Advanced Accounting* Or Microsoft Office Specialist (Intro to Computers DE)</td>
<td></td>
<td>Introduction to Management or Business Education Internship**</td>
<td>Personal Finance**</td>
</tr>
</tbody>
</table>

**High Demand**

**Industry Certification and/or EOP Exam:**
Assessment of Skills and Knowledge for Business (ASK) - Concepts of Finance (#ME23) AND Microsoft Office Specialist (MOS) - Excel, PowerPoint, Word

*Choose 2 – 3 Credits in Required Courses.  **Choose 1 – 2 Credits in Recommended Courses.
 Courses in bold are required for the pathway. Courses italicized are recommended for the pathway.

NOTE: Graduation requirements also include one Arts/Humanities credit, ½ credits in Health, and ½ credits in Physical Education.

Paul Blazer High School | Course Catalog 2020 – 21
Paul G. Blazer Career Pathway

**Program Area:** Business Education  
**Pathway:** Management & Entrepreneurship CIP 52.0701.00

<table>
<thead>
<tr>
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<td>10TH</td>
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<td>Geometry</td>
<td>Biology</td>
<td>World Civilizations</td>
<td>Business &amp; Marketing Essentials*</td>
<td>Accounting &amp; Finance Foundations or Personal Finance*</td>
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<td>11TH</td>
<td>English 11</td>
<td>Algebra II</td>
<td>Chemistry</td>
<td>U.S. History</td>
<td>Introduction to Management*</td>
<td>Personal Finance or Advanced Accounting*</td>
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<tr>
<td>12TH</td>
<td>English 12</td>
<td>Fourth Year of Math</td>
<td>Introduction to Management*</td>
<td>Personal Finance or Advanced Accounting*</td>
<td>Microsoft Office Specialist (MOS)/Intro to Computers DE or Business Education Internship**</td>
<td>Industry Certification and/or EOP Exam: Assessment of Skills and Knowledge for Business (ASK) - Fundamental Business Concepts (#ME05)</td>
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</table>

*Complete 3 Credits in Required Courses – Business & Marketing Essentials, Intro to Business and Accounting & Finance Foundations or Personal Finance or Advanced Accounting.  
**Choose 1 Credit in Recommended Courses.

Courses in **bold** are required for the pathway. Courses *italicized* are recommended for the pathway.

NOTE: Graduation requirements also include one Arts/Humanities credit, ½ credits in Health, and ½ credits in Physical Education.

Paul Blazer High School | Course Catalog 2020 – 21
Paul G. Blazer Career Pathway

**Program Area:** Business Education/Computer Science

**Pathway:** Computer Science CIP 11.0701.01

<table>
<thead>
<tr>
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<td>Integrated Social Studies</td>
<td>Digital Literacy</td>
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<td>10TH</td>
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<td>Geometry</td>
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<td>World Civilizations</td>
<td>Intro/Java Script</td>
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<tr>
<td>11TH</td>
<td>English 11</td>
<td>Algebra II</td>
<td>Chemistry</td>
<td>U.S. History</td>
<td>Computational Thinking</td>
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| 12TH  | English 12| Fourth Year of Math |                |                  | AP Computer Science A | Industry Certification Exam:  
2 Exams Required  
Certiport Digital Literacy IC3  
Microsoft Technology Associate: HTML5 App Development Fundamentals  
Microsoft Technology Associate: Introduction to Programming Using Block-Based Languages (Touch Develop)  
Microsoft Technology Associate: Introduction to Programming Using JavaScript  
Microsoft Technology Associate: Software Development Fundamentals  
Oracle Junior Associate: Java Foundations or  
Oracle Certified Associate: Java SE 7 Programmer |

*Complete 4 Credits in Required Courses

Courses in **bold** are required for the pathway. Courses *italicized* are recommended for the pathway.

**NOTE:** Graduation requirements also include one Arts/Humanities credit, ½ credits in Health, and ½ credits in Physical Education.
**Paul G. Blazer Career Pathway**

**Program Area:** Business Education/Law, Public Safety & Security  
**Pathway:** Pre-Law Studies CIP 22.0001.00

<table>
<thead>
<tr>
<th>GRADE</th>
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<td>Integrated Science</td>
<td>Integrated Social Studies</td>
<td>Introduction to Criminal Justice or Business Law</td>
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<td></td>
<td>Criminal Investigation or Business Law or Financial Management</td>
<td>Industry Certification Exam: TBD</td>
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</table>

*Complete 4 Credits in Required Courses – Introduction to Criminal Justice, Criminal Investigation, Business Law and Financial Management.*

Courses in **bold** are required for the pathway. Courses *italicized* are recommended for the pathway.

**NOTE:** Graduation requirements also include one Arts/Humanities credit, ½ credits in Health, and ½ credits in Physical Education.
FAMILY & CONSUMER SCIENCE DEPARTMENT: Heather Coleman, Chair

FACS ESSENTIALS/HEALTH [200161]:
1 credit  Open to 9, 10
This course provides an opportunity for students to gain an understanding of the knowledge, attitudes, skills, and behaviors impacting healthy lifestyles. Emphasis will be placed on individual and family well-being including wellness, nutrition, non-communicable diseases, goal setting, decision-making, and consumer choices. A variety of wellness strategies will be addressed including behavioral choices, conflict resolution, first aid, emergencies, and preventing communicable diseases. Career exploration will be part of this class. Leadership development will be provided through Family, Career, and Community Leaders of America.  
Class fee of $5.00 is required.

NOTE: Interdisciplinary course for Health credit

FOODS AND NUTRITION [200441]:
1 credit  Open to 10, 11
This course is designed to assist students in making critical decisions about food, which contributes to health and well-being. Laboratory instruction will make up 25% of the class. Demonstrations, lectures, study guides, and textbook assignments will make up the other 75% in this class. Practical problems addressed relate to attitudes toward food, nutrition facts, special health concerns and diets, management of food resources, preparation skills, food safety, sanitation and careers in nutrition and food service. Leadership development will be provided through the Family, Career and Community Leaders of America. A $20.00 fee is required to help cover food costs.

CULINARY ARTS I [200411]:
1 credit  Open to 11, 12
This course is designed to assist students in principles related to food preparation. Specific content addressed will include planning, serving, food presentation, special diets, and nutrition for the lifespan, serving, and food planning for entertainment services. An emphasis on careers related to food service and nutrition (i.e. catering, dietician, and other culinary careers). Lab instruction emphasizes the application process. Leadership development will be provided through the Family, Career and Community Leaders of America. A $20.00 fee is required to help cover food costs.

Prerequisite: Foods and Nutrition with a grade of C or higher and permission of the instructor

CULINARY ARTS II [200412]:
2 credits  Open to 11, 12
This advanced course allows students to increase competencies in a variety of food preparation techniques, as well as competencies in food production and services. Emphasis will be placed on food presentation, garnishing, menu planning and the skills necessary to prepare for a career in the culinary arts. Orientation to the food service industry and development of food preparation skills are reinforced. Food service management functions are introduced. More in-depth information is provided and higher levels of skills are taught. Time is provided for work based learning opportunities, and development of work based skills through participation in Cat’s Catering activities. Students will take a state assessment test for certification in Culinary Arts. Leadership development will be provided through the Family, Career and Community Leaders of America. A $20.00 fee is required to help cover food costs.

KOSSA and Industry Certificates will be available to qualifying students. These Career Readiness measures include Culinary and Food Service KOSSA Assessment and AAFCS Pre-PAC Culinary Arts, AAFCS Pre-PAC Nutrition Food and Wellness, and/or ServSafe.

Prerequisite: Foods and Nutrition and permission of the instructor
EARLY LIFESPAN DEVELOPMENT [200223]
1 credit  Open to 10, 11, 12
This course addresses the concepts related to understanding the areas and stages of human growth and development, recognizing effects of heredity and environment on human growth and development, meeting the needs of exceptional children, promoting optimum growth and development in the prenatal, infancy, toddler, preschool, and school age stages. Careers in early childhood education are explored. Leadership development will be provided through the Family, Career, and Community Leaders of America (FCCLA) student organization.

CHILD DEVELOPMENT SERVICES I [200261]
1 credit  Open to 11, 12
This course provides training for entry level positions in day care centers, nurseries, kindergartens, and private homes. Students study careers in child development, guidance, children’s health and well-being in group care, value of play, teaching strategies and management, and curriculum development. The subject content is reinforced with work experience in a variety of childcare establishments. Leadership development will be provided through the Family, Career, and Community Leaders of America student organization. This course includes a $15.00 class fee for hands on learning experiences.

Prerequisite – successful completion of Early Lifespan Development

CHILD DEVELOPMENT SERVICES II [200262]
2 credits  Open to 12
This course is a continuation of Child Development Services I and is designed for students who wish to train for supervisory level positions or those wishing to further their education at the post-secondary level in the early childcare education. Students gain in depth work experience in child care establishments, preschool centers, and other early childhood settings. Leadership development will be provided through the Family, Career, and Community Leaders of America student organization. Career Readiness measures include KOSSA and Industry Certifications. These will be available for qualifying students. This course includes a $15.00 class fee for hands on learning experiences.

Prerequisite – successful completion of Early Lifespan Development AND Child Development Services I
## Paul G. Blazer Career Pathway

**Program Area:** Family and Consumer Sciences  
**Pathway:** Culinary Arts

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<th>MATH</th>
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<td>English 9</td>
<td>Algebra I</td>
<td>Integrated Science</td>
<td>Integrated Social Studies</td>
<td>FACS Life Skills/Health***</td>
<td></td>
</tr>
<tr>
<td>10TH</td>
<td>English 10</td>
<td>Geometry</td>
<td>Biology</td>
<td>World Civilizations</td>
<td>Foods and Nutrition</td>
<td>Principles of Hospitality</td>
</tr>
<tr>
<td>11TH</td>
<td>English 11</td>
<td>Algebra II</td>
<td>Chemistry</td>
<td>U.S. History</td>
<td>Culinary Arts I*</td>
<td>Advanced Foods and Nutrition</td>
</tr>
<tr>
<td>12TH</td>
<td>English 12</td>
<td>Fourth Year of Math</td>
<td></td>
<td></td>
<td>Culinary Arts II** (Course taught as a 2 hour block over two semesters)</td>
<td>WBL/ Co-op</td>
</tr>
</tbody>
</table>

**Industry Certification and/or KOSSA Exam:**  
KOSSA, Pre-PAC Culinary Arts, ServSafe, ProStart, Articulated Credit with ACTC

*recommendation from teacher and successful completion of Foods and Nutrition

** recommendation from teacher and successful completion of Culinary I

*** Interdisciplinary course for Health credit

Courses in **bold** are required for the pathway. Courses *italicized* are recommended for the pathway. NOTE: Graduation requirements also include one Arts/Humanities credit, ½ credits in Health, and ½ credits in Physical Education.
Paul G. Blazer Career Pathway

Program Area: Family and Consumer Sciences  Pathway: Early Childhood Education

<table>
<thead>
<tr>
<th>GRADE</th>
<th>ENGLISH</th>
<th>MATH</th>
<th>SCIENCE</th>
<th>SOCIAL STUDIES</th>
<th>REQUIRED COURSES AND RECOMMENDED COURSES FOR PATHWAY</th>
<th>CAREER-READY MEASURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>9TH</td>
<td>English 9</td>
<td>Algebra I</td>
<td>Integrated Science</td>
<td>Integrated Social Studies</td>
<td>FACS Life Skills/Health***</td>
<td></td>
</tr>
<tr>
<td>10TH</td>
<td>English 10</td>
<td>Geometry</td>
<td>Biology</td>
<td>World Civilizations</td>
<td>Early Life Span Development</td>
<td></td>
</tr>
<tr>
<td>11TH</td>
<td>English 11</td>
<td>Algebra II</td>
<td>Chemistry</td>
<td>U.S. History</td>
<td>Child Care Services I*</td>
<td></td>
</tr>
<tr>
<td>12TH</td>
<td>English 12</td>
<td>Fourth Year of Math</td>
<td></td>
<td></td>
<td>Child Care Services II**</td>
<td>WBL/Co-op</td>
</tr>
</tbody>
</table>

*recommendation from teacher and successful completion of Early Life Span Development

** recommendation from teacher and successful completion of Child Care Services I

*** interdisciplinary course for Health credit

Courses in **bold** are required for the pathway. Courses **italicized** are recommended for the pathway.

CCCC – Commonwealth Child Care Credential       CDA – Child Development Associates

NOTE: Graduation requirements also include one Arts/Humanities credit, ½ credits in Health, and ½ credits in Physical Education.
**LANGUAGE ARTS DEPARTMENT:**  
Karen Scalf, Chair

**ACCELERATED ENGLISH 1 [230107A]:**

1 credit  
Open to 9

**ACCELERATED ENGLISH 2 [230110A]:**

1 credit  
Open to 10

Accelerated courses in all grades are designed for the student who has shown strong academic ability. In the 9th/10th grade, these classes serve as preparation for AP Language and AP Literature. In the 11th/12th grade, American literature will be studied with emphasis on parallel reading of major American authors to obtain critical understanding. Accelerated students – at every level - are expected to synthesize all aspects of the literature studies: history, literature, music, and art. Composition will focus on academic papers based on literary studies. Correct grammar, usage, and mechanics will be incorporated in the writing process. Vocabulary building and spelling will be emphasized in all areas. The student will be exposed to oral communication skills through various speaking activities.

**Prerequisites** – To be advanced from CCR to Accelerated or Advanced Placements classes, any student shall meet or attain at least 2 of the following 3 requirements and meet the benchmark on a chosen reading test:

- Maintained an A/B average in the previous English Language Arts course (including 8th grade for incoming freshmen).
- Students SHALL have successfully written all major assignments or projects, including research and other papers.
- Teacher Recommendation.

*These same standards must be maintained to REMAIN in accelerated strand courses.

**COLLEGE AND CAREER ENGLISH 1 [230107]:**

1 credit  
Open to 9

This course is designed to present a wide range of reading experiences with print and non-print materials that have literary, informational, persuasive, and practical purposes. This course also requires students to use the writing process and criteria for effective writing to demonstrate their abilities to write in a variety of forms and for multiple audiences and purposes. Students use writing-to-learn and writing-to-demonstrate-learning strategies to make sense of their reading and thinking experiences. Speaking, listening, and observing skills are used to communicate information for a variety of authentic purposes. In addition, students continue to integrate inquiry skills and technology to communicate ideas. Course adheres to Program of Studies requirements.

**COLLEGE AND CAREER ENGLISH 2 [230110]:**

1 credit  
Open to 10

This course is designed to present a wide range of reading experiences with print and non-print materials that have literary, informational, persuasive, and practical purposes. This course also requires students to use the writing process and criteria for effective writing to demonstrate their abilities to write in a variety of forms and for multiple audiences and purposes. Students use writing-to-learn and writing-to-demonstrate-learning strategies to make sense of their reading and thinking experiences. Speaking, listening, and observing skills are used to communicate information for a variety of authentic purposes. In addition, students continue to integrate inquiry skills and technology to communicate ideas. Course adheres to Program of Studies requirements.

**Prerequisite:** College and Career English 1
COLLEGE AND CAREER ENGLISH 3 [230113]:
1 credit Open to 11
This course is designed to present a wide range of reading experiences with print and non-print materials that have literary, informational, persuasive, and practical purposes. This course also requires students to use the writing process and criteria for effective writing to demonstrate their abilities to write in a variety of forms and for multiple audiences and purposes. Students use writing-to-learn and writing-to-demonstrate-learning strategies to make sense of their reading and thinking experiences. Speaking, listening, and observing skills are used to communicate information for a variety of authentic purposes. In addition, students continue to integrate inquiry skills and technology to communicate ideas. Course adheres to Program of Studies requirements.
Prerequisite: College and Career English 2

COLLEGE AND CAREER ENGLISH 4 [230116]:
1 credit Open to 12
This course includes a study of English literature, oral and written composition, vocabulary building, and a sharpening of skills in conventional grammatical usage as evidenced through writing assessment. Students will develop the ability to interpret various literary works while mastering skills of literary discussion, speaking, and listening. Composition involves expository writing and culminates in long themes as well as a required senior portfolio. Parallel reading is a part of the course requirement.
Prerequisite: College and Career English 3

ADVANCED PLACEMENT LANGUAGE AND COMPOSITION [230166]:
1 credit (Weighted Course) Open to 11
This course engages students in careful reading and critical analysis of a variety of non-fiction works. Through close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and purpose for readers. As they read, students consider a work’s structure, style, and themes, as well as important rhetorical elements that contribute to the work’s overall theme, tone, and purpose. Students will also be expected to complete a number of writing assignments including analytical writing, argumentative writing, and synthesized argumentative writing. This course adheres to the College Board standards.
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ADVANCED PLACEMENT LITERATURE AND COMPOSITION [230167]:
1 credit (Weighted Course) Open to 12
This course engages students in becoming skilled readers of prose written in a variety of rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer’s purposes, audience expectations, and subjects, as well as the way genre conventions and the resources of language contribute to effectiveness in writing. Although the composition element provides students with opportunities to write about a variety of subjects from a variety of disciplines and to demonstrate an awareness of audience and purpose, the overarching objective is to enable students to write effectively and confidently across the curriculum. In addition, students will rhetorically analyze a variety of poetry, prose, and lengthy works of literature. This course adheres to the College Board standards. © 2014 The College Board

YEARBOOK PRODUCTION [239141]:
1 credit Open 9, 10, 11, 12
Students will learn the fundamentals of photographic composition, the basics of journalistic writing, and develop strong editing practices. Students will participate as members of production teams that will design, illustrate, write, and edit the yearbook. Sales of ads and yearbooks, both on campus and in the community, is a full-year class project. All grades are performance-based.
*Yearbook Ad sales and yearbook sales drives are a required component and will be part of your overall grade.
THEATRE ARTS 1 [500511]:
1 credit Open to 9, 10, 11, 12
This course emphasizes comprehension of theatre history, acting techniques, and play production. The purpose of the course is to develop the student's understanding of the major movements in art history as well as the theatre as a creative art. Participation in programs before the public is a class requirement. Some after-school practice hours will be required. This course also will include the core curriculum for history and appreciation of visual and performing arts and may be used as the Kentucky High School Graduation Requirement for Arts and Humanities.

THEATRE ARTS 2 [500512]:
1 credit Open to 10, 11, 12
This advanced topics course is open to students who have successfully completed Theatre Arts I. The class will further investigate topics that were introduced in Theatre Arts I. Students will study influential playwrights and their plays as well as play production. Topics for play production will include acting techniques, scenic design, costume design, lighting design, makeup, playwriting, and directing. After-school work hours will be required.

Prerequisite: Theatre Arts 1 and teacher recommendation

THEATRE ARTS 3 [500513]:
1 credit Open to 11, 12
This advanced topics course is open to students who have successfully completed Theatre Arts 1 and 2. The class will focus on advanced play production, including acting techniques, scenic design, lighting design, costume design, makeup, playwriting, and directing. After-school work hours will be required.

Prerequisite: Successful completion of Theatre Arts 2 and teacher recommendation

THEATRE ARTS 4 [500515]:
1 credit Open to 12
This advanced topics course is open to students who have successfully completed Theatre Arts I, II, & III. This class will focus on advanced play production, including scenic design, costume design, lighting design, scriptwriting, and directing. After schoolwork hours will be required.

Prerequisite: Successful completion of Theatre Arts 3 and teacher recommendation

PROGRAM NOTE:

ARTS AND HUMANITIES SPECIALIZATION – THEATRE ARTS
3 or 4 credits Open to 9, 10, 11, 12
Students wishing to pursue a specialized arts graduation credit may, through indication on his/her Individual Learning Plan AND with teacher recommendation may enroll for a minimum of three (3) years of a standards-based Theatre Arts course. Successful completion of a three-year course of study may be used as the Kentucky High School Graduation Requirement for Arts and Humanities.

LANGUAGE ARTS ELECTIVES

BIBLE AS LITERATURE [230125]:
½ credit Open 10, 11, 12
Special Topics: study of the Old Testament; New Testament; Heroes; prophecies; poetry.

WRITING LAB [230402]:
½ credit Open 10, 11, 12
This is for the student working on a sizeable, long-term writing project with the intent to publish it. May only be taken with the permission of the English Chair and English Department.

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CREATIVE WRITING [230511]:
½ credit Open 10, 11, 12
This course may vary but it will provide students an opportunity to analyze and create works such as short stories, one-act plays, poetry and/or personal, expressive pieces. Content:

PUBLIC SPEAKING [231011]:
½ credit Open 10, 11, 12
Possible topics may include research, preparation, delivery, and analysis of extemporaneous, demonstrative, persuasive (including debate and forensic techniques) and informative oral communication.

SOCIAL AND MEDIA IMPACT [239101]
½ credit Open 10, 11, 12
A study of multiple media and social media sources, sites, and apps for the purpose of understanding their uses, and their pros and cons in the real world. Students will analyze these sites to understand how they work and what we still have to learn about our use of them. Students will record, film, document, write, and otherwise create to show their findings and present their studies of media and its impact.

REAL WORLD READING [231295]
½ credit Open 10, 11, 12
For all levels of readers with various interests. This course will focus on student selections in a variety of genres from sci-fi and dystopian literature to super heroes; from modern love stories to horror; from mythology to young adult lit; from memoir and how-to books to poetry. Students will give book talks and other types of presentations in order to share the readings. The goal is to instill the lifelong habit of reading.

PROGRAM NOTE
Students graduating in the Class of 2023 and beyond may take any approved electives to fulfill their English requirement for grade 11 and grade 12. Electives should be approved and aligned with the students ILP (Individual Learning Plan).
MATHEMATICS DEPARTMENT: Laura Hackney, Chair

MATH REQUIREMENTS:
CLASS OF 2021-22: 3 credits Algebra 1, Geometry, Algebra 2); math class required each year.
CLASS OF 2023 and beyond: 4 Credits Algebra 1 and Geometry and two additional math credits aligned with student’s ILP.

MATHEMATICS INTERVENTION [270309]:
1 credit Open to 9, 10, 11, 12
This course is designed for students who need additional time and help with mathematical strategies. This course uses hands-on activities and experiments with graphing calculators to support the study of the concepts addressed in the relevant statements in the High School Mathematics Program of Studies for a high school. This course can be individualized to enhance a student's college or career readiness. This course can serve as a mathematics elective for high school graduation, but not as one of the 3 required mathematics credits for high school graduation: Algebra 1, Geometry or Algebra 2. Student placement in this course will be determined by school administration based on student performance, scores on appropriate tests (K-Prep, formative classroom assessments, or ACT).

HS Pre-Algebra [270301]
1 credit Open to 9, 10
This course should focus on skills necessary to be successful in a High School Algebra 1 course and is not necessarily limited to (1) developing a complete understanding of division of fractions and extending the notion of number to the system of rational numbers and writing, interpreting, and using expressions and equations; (2) connecting the ratio and rate to whole number multiplication and division and using concepts of ratio and rate to solve problems; (3) developing an understanding of and applying proportional relationships and solving problems involving scale drawings; (4) formulating and reasoning about expressions and equations, including modeling an association in bivariate data with a linear equation, and solving linear equations and systems of linear equations; (5) grasping the concept of a function and how to use functions to describe quantitative relationships; (6) understanding and applying the Pythagorean Theorem; (7) working with two- and three-dimensional shapes to solve problems involving area, surface area, and volume; (8) developing an understanding of statistical thinking and drawing inferences about populations based on samples. This course cannot serve as Algebra 1 or Geometry credit for high school graduation. This course is for high school students who are not prepared to successfully complete a high school Algebra 1 course.

COLLEGE AND CAREER ALGEBRA I [270304]:
1 credit Open to 9
This course is designed for students who are proficient in basic mathematics and have mastered pre-algebra skills. Topics will include the real number system, algebraic expressions and sentences, linear equations, relations, set theory, inequalities, graphing, factoring polynomials, and systems of equations.

ACCELERATED GEOMETRY [270401A]:
1 credit Open to 9, 10
This course is for the student who has exhibited exceptional ability in mathematics. Topics covered include those covered in geometry with an emphasis on formal 2-column proofs, and inductive and deductive reasoning. Additional topics covered include the structure of the real number system; coordinate geometry, analytical geometry, trigonometric functions, functions and relations, quadratic functions, and the conic sections.
Prerequisite: Student should meet the following criteria: A or B average in Algebra 1 and teacher recommendation.
COLLEGE AND CAREER GEOMETRY [270401]:
1 credit Open to 9, 10, 11
This course is designed to help the student understand the structure of geometry and to apply geometry to everyday situations. Topics include postulates, theorems, 2-column proofs, congruence of triangles, parallel lines and transversals, polygons, similarity of triangles, right triangles, Pythagorean Theorem, special right triangles, properties of circles, basic construction, areas of polygons, surface area and volume of solids.
Prerequisite: Algebra I

ACCELERATED ALGEBRA 2 [270311A]:
1 credit Open to 9, 10, 11
This course is designed for accelerated students with a high degree of proficiency in abstract mathematical ideas. The course includes skills and concepts in Algebra II. Topics included in greater depth are systems of quadratic equations and inequalities, mathematical induction, permutations, composites, probability, conic sections, trigonometric functions, and circular functions.
Prerequisite: A or B average in Accelerated Geometry and teacher recommendation.
(It is strongly recommended that a TI-84 calculator or equivalent be used for this course. If purchasing a calculator, TI-84CE is recommended.)

COLLEGE AND CAREER ALGEBRA 2 [270311]:
1 credit Open to 10, 11, 12
This course is designed for college-bound students to complete the study of algebra. Topics will include quadratic equations and inequalities, linear programming, logarithmic and exponential functions, the binomial theorem, progressions and series, the complex number systems, matrices, graphs of functions and relations, introductory work in conic sections, probability, and trigonometry.
Prerequisite: Algebra I, Geometry

ACCELERATED PRE-CALCULUS [270501A]:
1 credit Open to 10, 11
This course is designed for students who have completed Accelerated Algebra 2. This class will include all topics offered in Pre-Calculus with emphasis on properties of algebraic, trigonometric, exponential and logarithmic functions, continuity, and extensive graphing.
Prerequisite: Accelerated Algebra 2 and teacher recommendation. (It is required that a TI-84 calculator or equivalent be used for this course. If purchasing a calculator, TI-84CE is recommended.)
*Note – this course is a pre-requisite to AP Calculus

PRE-CALCULUS [270501]:
1 credit Open to 11
This course is designed for students who have completed Algebra 2. This class will include all topics offered in Pre-Calculus with emphasis on properties of algebraic, trigonometric, exponential and logarithmic functions, continuity, and extensive graphing.
Prerequisite: Algebra 2 and teacher recommendation.
(It is required that a TI-84 calculator or equivalent be used for this course. If purchasing a calculator, TI-84CE is recommended.)

ALGEBRA 3/PREPARATION FOR COLLEGE ALGEBRA [270320]
1 credit Open to 11, 12
This course is designed for students who are intending to attend college and are in need of additional preparation in order to be successful in credit-bearing College Algebra, or for students who feel in need of additional preparation to take College Algebra. The content goes beyond a traditional Algebra 2 course.
Prerequisite: 19 ACT or higher.
MATHEMATICS CONCEPTS [270661]
1 credit Open to 12
This course is designed to be taken after completion of Algebra 1, Geometry and Algebra 2. Topics include probability and statistics, extension of algebra and geometry concepts, and discrete mathematics. This course could serve as a mathematics elective for high school graduation, but not as one of the three required credits for high school graduation: Algebra 1, Geometry or Algebra 2 (class of 2012 and beyond). Students who scored a 16 or lower on the ACT must take this as the 4th year of Math.

Prerequisite: Algebra 2

ADVANCED PLACEMENT CALCULUS AB [270513]:
1 Credit (Weighted course) Open to 11, 12
AP Calculus AB is roughly equivalent to a first semester college calculus course devoted to topics in differential and integral calculus. The AP course covers topics in these areas, including concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections among these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions. College credit is earned with a qualifying score on the an AP exam. Taking the AP Calculus Exam is recommended. Summer work is required.

Prerequisite: Accelerated Pre-Calculus and teacher recommendation. (It is required that a TI-84 or equivalent be used for this course. If purchasing a calculator, TI-84CE is recommended.)
Note: Failure to complete summer work will not result in schedule change.

ADVANCED PLACEMENT STATISTICS [270604]
1 credit (Weighted Course) Open to 11, 12
The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data.

Students are exposed to four broad conceptual themes:

1. Exploring Data: Describing patterns and departures from patterns (20%–30% of AP Exam). Exploratory analysis of data makes use of graphical and numerical techniques to study patterns and departures from patterns. Emphasis will be placed on interpreting information from graphical and numerical displays and summaries.
2. Sampling and Experimentation: Planning and conducting a study (10%–15%). Data must be collected according to a well-developed plan if valid information on a conjecture is to be obtained. This plan includes clarifying the question and deciding upon a method of data collection and analysis.
3. Anticipating Patterns: Exploring random phenomena using probability and simulation (20%–30%). Probability is the tool used for anticipating what the distribution of data should look like under a given model.
4. Statistical Inference: Estimating population parameters and testing hypotheses (30%–40%). Statistical inference guides the selection of appropriate models

Students who successfully complete the course and exam may receive credit for a one-semester introductory college statistics course.

Prerequisite: Algebra 2, ACT Math score of 22 or higher, and teacher recommendation. (It is required that TI-84 or equivalent be used for this course. If purchasing a calculator, TI-84CE is recommended.)
*Note: MAY NOT be taken concurrently with AP Calculus in 11th grade.
PROBABILITY AND STATISTICS [270602]
1 credit Open to 10, 11, 12
This course should focus primarily on the conceptual categories: Statistics & Probability and Modeling to address such concepts as theoretical and experimental probability, independent and conditional probability using them to interpret data, rules of probability to compute probabilities of compound events in a uniform probability model, calculations of expected values, analysis of decisions and strategies using probability concepts, binomial distributions, normal distributions, displaying and describing distributions of data, collecting data, measures of central tendency and spread and methods of inferential statistics. Technology should be an integral part of this course to generate plots, regressions functions and correlation coefficients and to simulate possible outcomes relatively quickly based on a given situation.

Prerequisite: Algebra 2
MILITARY SCIENCE DEPARTMENT (JROTC):
LTC (R) Matt Chapman, Chair

U.S. ARMY JUNIOR ROTC PROGRAM:
The U.S. Army JROTC program is a four-year program specifically designed for high school students to develop leadership, citizenship, self-discipline, character, respect for constituted authority, information about the military services, and an understanding of the requirements for national security.

**Students who participate in JROTC have NO OBLIGATION to any branch of the United States Armed Forces following high school graduation.

The JROTC program intends to teach cadets to:

• Appreciate the ethical values and principles that underlie good citizenship
• Develop leadership potential, while living and working cooperatively with others
• Be able to think logically and to communicate effectively with others, both orally and in writing
• Appreciate the importance of physical fitness in maintaining good health
• Understand the importance of high school graduation for a successful future and learn about college and other advanced educations and employment opportunities
• Develop mental management abilities
• Become familiar with military history as it relates to America's culture, and understand the history, purpose, and structure of the military services
• Develop the skills necessary to work effectively as a member of a team

The JROTC program is a cooperative effort on the part of the Army and the host institution to provide secondary school students with opportunities for total development. The flexibility of the program allows it to bear the scrutiny of professional educators and to meet the needs of the community. Satisfactory completion of the program can lead to advanced placement credit in the Senior ROTC program or advanced rank in the Armed Forces. Some of the course has been reviewed and college credit is awarded to cadets upon completion of the specified requirements.

The JROTC program is one of the Army's contributions to assisting America's youth to become better citizens. The program produces successful students and productive adults, while fostering in each school a more constructive and disciplined learning environment. This program makes substantial contributions to many communities and ultimately to the nation's future. It is the centerpiece of the Department of Defense's commitment to America's Promise for Youth through its emphasis on community service and teen anti-drug efforts.

JROTC LEADERSHIP DEVELOPMENT 1 [580240]:
1 credit  Open to 9, 10, 11, 12
This is a course in basic leadership training designed to introduce students to JROTC. The student receives elementary training in drill and ceremonies, marksmanship, first aid and personal hygiene, first phase of leadership, military organization, and courtesies of the military service, oral and written communications skills, and modern communications technology. Instruction in improving self-esteem and self-confidence, interpersonal skills, job interview techniques, goal setting, and study skills is provided for all students.

Note: The P.E. requirement will be fulfilled upon successful completion of this course.
JROTC LEADERSHIP DEVELOPMENT 2 [580241]:
1 credit  Open to 10, 11, 12
This is a course in basic military training designed to continue leadership development. During this course, the student receives instruction in marksmanship, first aid, map reading and land navigation, military organization, drill, and ceremonies. During this course, the student also receives leadership training by occupying positions requiring supervision of other cadets, oral and written communications skills, and modern communications technology. Instruction in improving self-esteem and self-confidence, interpersonal skills, job interview techniques, goal setting, and study skills is provided for all students.
**Prerequisite:** Leadership Development 1

JROTC LEADERSHIP DEVELOPMENT 3 [580242]:
1 credit  Open to 11, 12
This is a course in basic military training designed as a continuation of the previous two years. During this course, the student receives advanced training in drill and ceremonies, applied leadership, applied map reading and land navigation, marksmanship and safety, applied techniques of oral communications, instruction in service opportunities, oral and written communications skills, and modern communications technology.
Instruction in improving self-esteem and self-confidence, interpersonal skills, job interview techniques, goal setting, and study skills is provided for all students.
**Prerequisite:** Leadership Development 2

JROTC LEADERSHIP DEVELOPMENT 4 [580243]:
1 credit  Open to 12
The advanced leadership program provides practical experience in command and leadership. Practical exercise as leaders will include planning, preparing, and conducting inspection, ceremonies, reviews, and parades. The value of physical exercise, conditioning will be emphasized, oral and written communications skills, and modern communications technology. Instruction in improving self-esteem and self-confidence, interpersonal skills, job interview techniques, goal setting, and study skills is provided for all students.
**Prerequisite:** Leadership Development 3

JROTC SENIOR LEADER [580244]:
1 credit  Open to 12
This individualized course enables cadets to supervise drill instruction and physical exercise and development programs; to prepare for and present formal classroom instruction; to provide cadets with a general understanding of staff actions and inter-staff responsibilities; and to provide cadets with locally selected optional activities and learning, leading to citizenship and vocational knowledge, oral and written communications skills, and modern communications technology. Instruction in improving self-esteem and self-confidence, interpersonal skills, job interview techniques, goal setting, and study skills is provided for all students.
**Prerequisite:** Leadership Development 3 and teacher recommendation
### Paul G. Blazer Career Pathway

**Program Area:** Junior officer Reserve Training Corps  **Pathway:** Military

<table>
<thead>
<tr>
<th>GRADE</th>
<th>ENGLISH</th>
<th>MATH</th>
<th>SCIENCE</th>
<th>SOCIAL STUDIES</th>
<th>REQUIRED COURSES AND RECOMMENDED COURSES FOR PATHWAY</th>
<th>CAREER-READY MEASURE</th>
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<td>Algebra I</td>
<td>Integrated Science</td>
<td>Integrated Social Studies</td>
<td>JROTC Leadership Development 1</td>
<td>1/2 Credit for PE</td>
</tr>
<tr>
<td>10TH</td>
<td>English 10</td>
<td>Geometry</td>
<td>Biology</td>
<td>World Civilizations</td>
<td>JROTC Leadership Development 2</td>
<td></td>
</tr>
<tr>
<td>11TH</td>
<td>English 11</td>
<td>Algebra II</td>
<td>Chemistry</td>
<td>U.S. History</td>
<td>JROTC Leadership Development 3</td>
<td>Completion of 3 Years JROTC and a score of 50 or higher on ASVAB test, or meet benchmarks on ACT or KOSSA</td>
</tr>
<tr>
<td>12TH</td>
<td>English 12</td>
<td>Fourth Year of Math</td>
<td></td>
<td></td>
<td>JROTC Leadership Development 4</td>
<td>Senior Leader</td>
</tr>
</tbody>
</table>

Courses in **bold** are required for the pathway. Courses *italicized* are recommended for the pathway.

**NOTE:** Graduation requirements also include one Arts/Humanities credit, ½ credits in Health, and ½ credits in Physical Education.
MUSIC DEPARTMENT:  

Chris Whelan, Chair

MIXED CHORUS [500925]:  
1 credit  Open to 9, 10, 11, 12  
Mixed Chorus is for students especially interested in and capable of singing quality choral literature. This class teaches the fundamental skills necessary for singing, such as music reading, breathing technique, tone quality, diction, blend, intonation, and artistic interpretation. There is also some emphasis placed on the understanding of music theory. This group will perform occasionally, and some time may be required beyond the regular class schedule.  
Choir Fee - $25.00

GIRLS’ CHORUS [500926G]:  
1 credit  Open to 10, 11, 12  
This is a select group of female singers. The emphasis in this course will be on quality music from standard choral literature to jazz and pop. Choreography will at times be incorporated, and students should have a real interest in performance. This group will participate in the winter and spring concerts as well as other performance opportunities. Some outside class time is required.  
Prerequisite: Audition and/or teacher recommendation  
Choir Fee - $25.00

CONCERT CHOIR [500926]:  
1 credit  Open to 10, 11, 12  
Concert Choir is designed for the student who desires to perform the quality standard concert choir literature in a large group setting (40-50 students). A functional knowledge of proper choral singing and previous participation in a choral ensemble is recommended. The concert choir will participate in KMEA Concert Choir festivals as well as the winter and spring concerts and other performance opportunities. Some outside class time is required.  
Prerequisite: Audition and/or teacher recommendation  
Choir Fee - $25.00

CHAMBER SINGERS [500926C]:  
1 credit  Open to 10, 11, 12  
This course is designed for the advanced singer who is interested in performing in a small group situation. Chamber music from the Fifteenth through the Twentieth Centuries will be covered, as well as other various musical genres. The primary purpose of Chamber Singers is to build independence in the solo voice while learning blend and balance within a small ensemble. Because of the large number of performances and travel, some outside class time is required. This class will meet jointly with Concert Choir, and some “Chamber Singers only” after-school rehearsals may be required.  
Prerequisite: Audition only  
Choir Fee - $25.00

PIANO/KEYBOARD [500922]:  
1 credit  Open to 9,10,11,12  
This class will take students at their current level of piano skills and move them forward, much like private piano study would do. Students will learn theory, technique, keyboard skills, and will be assigned appropriate piano repertoire. Students will be assigned lesson material to practice independently in class daily and will be given a weekly private lesson. Class size will be limited to available keyboard space. Juniors and Seniors considering music study beyond high school, and those already involved in Blazer music ensembles will be given first choice to take the class with a teacher recommendation. Students will need to purchase lesson materials (lesson book, music, etc.) as recommended by instructor. Course will be offered every other year, taught during 2021 – 22.  
Prerequisite: Teacher recommendation and interview with instructor.
AP MUSIC THEORY [500929]:
1 credit (Weighted Course)  Open to 11, 12
This course is designed for the student interested in a serious study of music. It is designed for students who need it as a preparation for career study of music in college as well as for those who take the class as an enrichment course. Major, minor, and modal scales, clefs, key signatures, intervals, acoustics, meter, harmonic analysis, and part writing will be taught. In addition, chord inversions, secondary dominants, modulation, and elementary composition will be explored. Emphasis is also placed on ear training and sight-reading. Purchase of workbook is required. Summer work focusing on knowledge of the rudiments of music and familiarity with music vocabulary is required. Prerequisite: Concurrent enrollment in a Blazer musical performance group, letter of recommendation from a private teacher, or teacher recommendation
Note: Failure to complete summer work will not result in schedule change. Class must also meet a certain enrollment number to be offered at Blazer.

MUSIC TECHNIQUES INSTRUMENTAL, BRASS, WOODWINDS, [500921B]:
1 credit  Open to 10, 11, 12
Each student will receive private lessons in class. On days that a student does not have a lesson, he or she will be working independently to prepare the following week's assignment. Because class size must be limited, students will need to obtain permission prior to enrolling in the class. Permission will be given depending upon student's ability, need, and grade level. A nominal fee will be charged for printed music. This class is designed for students who plan on majoring in music in college. Prerequisite: Student must currently be enrolled in Band and have teacher recommendation

BAND [500913]:
1 credit  Open to 10, 11, 12
This class will concentrate on original music and orchestral transcriptions from the National Band Association's Selective Music List, Grades V and VI in difficulty. It will be the group that will represent Blazer at such public functions when a concert band is required. All Blazer band students will be eligible for extra-curricular opportunities such as solos and ensembles, clinics, and trips. Attendance at summer Band Camp is required. After-school hours are required as well. The fee per student is $100.00, band members who qualify for free/reduced lunch will have a fee of $50.00. No student will be denied membership in the band because of financial issues.
NOTE: All students enrolled in the band class will also be members of the Blazer Marching Competition Band unless they are involved with a school sponsored sport that has a direct conflict with the marching band practice and performance schedule. However, these students will still be required to participate in the marching band for football games, parades, and other civic performances.

FRESHMAN BAND [500913F]
1 Credit  Open to 9
This class will concentrate on original music and orchestral transcriptions from the National Band Association's Selective Music List, Grades V and VI in difficulty. It will be the group that will represent Blazer at such public functions when a concert band is required. All Blazer band students will be eligible for extra-curricular opportunities such as solos and ensembles, clinics, and trips. Attendance at summer Band Camp is required. After-school hours are required as well. The fee per student is $100.00, band members who qualify for free/reduced lunch will have a fee of $50.00. No student will be denied membership in the band because of financial issues.
NOTE: All students enrolled in the band class will also be members of the Blazer Marching Competition Band unless they are involved with a school sponsored sport that has a direct conflict with the marching band practice and performance schedule. However, these students will still be required to participate in the marching band for football games, parades, and other civic performances.
JAZZ ENSEMBLE [500920]:
1 credit Open to 9, 10, 11, 12
Members of the Jazz Ensemble must also be enrolled in the regular band class. Standard “big band” jazz instrumentation would apply to this course. 5 Saxophones (2 alto, 2 tenor, one baritone sax), 4 trumpets, 4 trombones, Rhythm section including piano, drums, bass, and guitar. Additional instrumentation will be at the discretion of the director. Literature will consist of music common to the jazz idiom. American music as well as music in other forms of jazz, rock, and pop music from other parts of the world will be included in the course. Improvisation will be included in the course. Performances are required, and will be part of the grading process.
Prerequisite: Teacher recommendation required to enroll in the course.

PERCUSSION TECHNIQUES [500921P]:
1 credit Open to 9, 10, 11, 12
Percussion Class will be open to all students’ grades 9 - 12 who have completed middle school band and receive a recommendation from their middle school director, or who have participated in band at Blazer in the past, or who receive a recommendation from the high school band director. Students who play a percussion instrument should sign up for this class instead of Band. Students will participate in symphonic band and in the Blazer Marching Band. Curriculum will include rudimental snare drumming, basic and advanced mallet technique, basic and advanced timpani technique, and basic and advanced trap set techniques. All students will participate in the Blazer Percussion Ensemble at solo and ensemble contest. The students will join together for concerts and performances given by the Blazer Marching and Concert Band. Literature will consist of technical studies and percussion ensemble music. The fee per student is $100.00. The fee for free/reduced lunch students is $50. No student will be denied membership in the band/percussion class because of financial issues. NOTE: All students enrolled in the band class will also be members of the Blazer Marching Competition Band unless they are involved with a school sponsored sport that has a direct conflict with the marching band practice and performance schedule. However, these students will still be required to participate in the marching band for football games, parades, and other civic performances. Attendance at summer Band Camp is required.

STRING ORCHESTRA [500918]:
1 credit Open to 9, 10, 11, 12
String Orchestra is offered to students who, through prior instruction, have achieved an experience level equivalent to that of three years in a school string class. The course of study will include musical notation, vocabulary, ear training, elementary theory and applied string performance skills. Music will be chosen from among Grade III and higher literature. Students with the requisite background of experience on violin, viola, cello, or string bass are encouraged to seek a recommendation from the teacher. Students enrolled in this class are eligible to participate in K.M.E.A. sponsored events such as All-State Orchestra. Successful completion of three (3) years in either this class and/or the INTERMEDIATE STRING ENSEMBLE [500919] will constitute an “Arts Specialization” and can therefore be utilized as the Arts and Humanities credit toward graduation.
Prerequisite: Teacher recommendation/Audition
An annual class fee of $25 will be assessed and collected during the first week of class for purchase and maintenance of school-owned equipment and materials.
INTERMEDIATE STRING ENSEMBLE [500919]:
1 credit Open to 9, 10, 11, 12
The intermediate string ensemble is offered to students who, through prior instruction, have achieved an experience level equivalent to that of one or two years in a school string class. The course of study will include musical notation, vocabulary, ear training, elementary theory and applied string performance skills. Music will be chosen from among Grade II and III literature. Students with the requisite background of experience on violin, viola, cello, or string bass are encouraged to seek a recommendation from the teacher. Successful completion of three (3) years in either this class and/or the STRING ORCHESTRA [5009191] will constitute an “Arts Specialization” and can therefore be utilized as the Arts and Humanities credit toward graduation.

Prerequisite: Teacher recommendation/Audition
An annual class fee of $25 will be assessed and collected during the first week of class for purchase and maintenance of school-owned equipment and materials.

MUSIC TECHNIQUES STRINGS [500918S]:
1 credit Open to 9, 10, 11, 12
Each student will receive one twenty-five minute lesson per week. On days that a student does not have a lesson, he or she will be working independently to prepare the following week’s assignment. Because class size must be limited, students will need to obtain permission prior to enrolling in the class. Permission will be given depending upon student's ability, need, and grade level. A nominal fee will be charged for printed music. This class is designed for students who plan on majoring in music in college.

Prerequisite: Student must currently be enrolled in String Orchestra and/or have teacher recommendation.
An annual class fee of $25 for those students not concurrently enrolled in either STRING ORCHESTRA [5009191] or INTERMEDIATE STRING ENSEMBLE [500919] will be assessed and collected during the first week of class for purchase and maintenance of school-owned equipment and materials.

PROGRAM NOTE:

ARTS AND HUMANITIES SPECIALIZATION – MUSIC
3 or 4 credits Open to 9, 10, 11, 12
Students wishing to pursue a specialized arts graduation credit may, through indication on his/her Individual Learning Plan AND with teacher recommendation may enroll for a minimum of three (3) years of a standards-based Band, Choir, Orchestra, or Percussion course. Successful completion of a three-year course of study may be used as the Kentucky High School Graduation Requirement for Arts and Humanities.
PHYSICAL EDUCATION/HEALTH DEPARTMENT:

Tony Love/Jim Conway, Co-Chairs

PHYSICAL EDUCATION 1 [340216]:
½ credit (semester course) Open to 9, 10
This course is co-educational with emphasis on lead-up games to actual game activity. The units are brief but intensely geared toward fundamental skill development. The curriculum for P.E. 1 will consist of a fitness gram fitness testing, basketball, volleyball, indoor/outdoor soccer, softball/wiffleball, relays and games, pickle ball, physical conditioning, tennis, badminton, fitness components, archery (spring semester only) and ultimate Frisbee. Students must be dressed in appropriate gym attire. Dressing out and participating is required for this class.

HEALTH [340133]:
1/2 credit (semester course) Open to 9, 10
Health is a semester course designed to teach basic foundations of health. The curriculum will stress that good health habits can prevent illness and improve personal appearance, self-esteem, and performance. Students will learn that wellness is a way of life that includes choices and decisions based on healthy attitudes.

ADVANCED PHYSICAL EDUCATION [340219]:
1 credit (year-long class) Open to 10, 11, 12
Advanced Physical Education is designed to place emphasis on lifetime physical fitness activities. Numerous activities are provided at school. These activities include tennis, basketball, volleyball, motor analysis, aerobics, physical conditioning and nutrition, outdoor education, pickle ball, indoor/outdoor soccer, ultimate Frisbee, Cross fit concepts and softball/wiffleball. Students must be dressed in appropriate gym attire. Dressing out and participation is required for this class. May be taken for 3 consecutive years.
*Prerequisite: Physical Education 1 and teacher recommendation.*

ADVANCED CONDITIONING [Course number is specific to each sport or activity; please refer to Course Request Form for correct number]:
1 credit Open to 9, 10, 11, 12
This course is designed for students wanting an athletic level of conditioning. Students will be introduced to physical development in the areas of muscular strength and development, cardiovascular endurance and flexibility enhancement. Students will learn to develop a state of well-being through topics of nutrition, physical activity, stress reduction, and body composition. This course may substitute for the PE 1 requirement.
*Prerequisite: Recommendation from a varsity coach or physical education teacher.*

INTEGRATED HEALTH AND PHYSICAL EDUCATION [340290]
1 Credit Open to 9, 10
This course is designed to give students the opportunity to learn through a comprehensive sequentially planned Physical Education and Health Education program by combining the Kentucky Academic Standards for High School Physical Education and High School Health Education into one course. Students who are participating in a football advanced conditioning course, boys basketball/girls basketball advanced conditioning course may take this course with coach approval.
SCIENCE DEPARTMENT: Greg Graham, Chair

3 CREDITS REQUIRED (LIFE SCIENCE, EARTH/SPACE SCIENCE, AND PHYSICAL SCIENCE)

9th Grade: College and Career Intro to Physics and Chemistry

10th Grade: Biology

11th Grade: Chemistry or College and Career Physical Science

Electives: Anatomy/Physiology, Biology II, Environmental Science, as well as AP offerings.

NOTE: ALL SCIENCE COURSE OFFERINGS WILL INCORPORATE EARTH/SPACE SCIENCE COMPONENTS AS PART OF THE CURRICULUM.

COLLEGE AND CAREER INTRO TO PHYSICS AND CHEMISTRY [304058]:

1 credit  Open 9
Students develop a conceptual understanding of physical science (chemistry and physics) and earth/space science through the use of scientific inquiry. They experience science concepts such as structure of atoms, structure and properties of matter, chemical reactions, motions and forces, conservation of energy and increase in disorder, and interactions of energy and matter. A scientific inquiry approach uses concrete hands-on experiences that require students to apply critical-thinking skills. Earth/Space Science components will be incorporated as part of the course curriculum.

PHYSICAL SCIENCE [304021]:

1 credit  Open 11, 12
Students develop a conceptual understanding of physical science, as outlined in the Kentucky Academic Standards for Science. They experience physical science concepts such as structure of atoms, structure and properties of matter, chemical reactions, motions and forces, conservation of energy and increase in disorder, and interactions of energy and matter. Students will learn these core ideas within these topics through the use of the science and engineering practices and crosscutting concepts. The science and engineering practices are skills students will use as they investigate the natural world and develop solutions to problems. The crosscutting concepts are conceptual ways of thinking that cross the domains of science.

Prerequisite: Into Chem/Phys, Biology I

COLLEGE AND CAREER CHEMISTRY [304521]:

1 credit  Open 11, 12
This course focuses on problem solving techniques; bonding; equilibrium; equations. Students develop a conceptual understanding of chemistry content, included in the Program of Studies, through the use of scientific inquiry. Earth/Space Science components will be incorporated as part of the course curriculum.

Prerequisite: Intro Chem/Phys, Biology I, Algebra II (or concurrently enrolled in Algebra II).

ACCELERATED CHEMISTRY [304521A]:

1 credit  Open 10, 11, 12
This is an academic course for students who are taking college preparatory math courses and who have career interests in the various fields of scientific endeavor. Structure of properties of matter, reactions, conservation laws and interactions of matter and energy are core contents of this course. The nature of the chemical bond and theories of the composition of matter are important topics included. Accelerated Chemistry is provided for strong science students interested in taking AP Chemistry. Performance-based laboratories and lecture concepts will be tested. Earth/Space Science components will be incorporated as part of the course curriculum.

Prerequisite: Previous Accelerated Science and completed or concurrent enrollment in Accelerated Algebra 2.
ADVANCED PLACEMENT CHEMISTRY [304526]:
1 credit (Weighted Course) Open 11, 12
Advanced Placement Chemistry is offered for exceptional chemistry students. Inorganic chemistry and quantitative analysis are included as major portions of this course. Organic chemistry and environmental chemistry are also included. Instrumentation and performance-based skills are taught and evaluated in this course. This is a laboratory science. Summer work is required.
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Prerequisite: Accelerated Algebra II with B average, Accelerated Chemistry with B average, Accelerated Pre-Calculus (completed or concurrent) and teacher recommendation.
Note: Failure to complete summer work will not result in schedule change.

ANATOMY AND PHYSIOLOGY [302631]:
1 credit Open 11, 12
The structures and functions of the human body are the subject of this advanced course. The students will study the skeletal system as well as the muscular system plus the other eight major systems of the body. Students will dissect a mammal to get first-hand experience of anatomical structures. This class provides a good background for students going into the medical field or into physical education as a college major. Performance-based skills will be tested. This is a laboratory science class.
Prerequisite: Biology with a B average and a teacher recommendation.

ACCELERATED BIOLOGY [302601A]:
1 credit Open 9, 10
Course content will include biochemistry, cell structure, genetics, interdependence of organisms, and biological change. Students should have a high reading ability, as independent readings in current science research are required. Performance-based laboratory skills will be tested. This class is designed to prepare students for AP Biology.
Earth/Space Science components will be incorporated as part of the course curriculum.
Prerequisite: ICP (or 8th grade science) with a B average and a teacher recommendation.

COLLEGE AND CAREER BIOLOGY [302601]:
1 credit Open 10
This course is designed for students with above-average reading ability and interest in science. Reading comprehension above the student’s grade level is important. Course content will include biochemistry, cell structure, genetics, interdependence of organisms and biological change. Performance-based laboratory skills will be tested. Earth/Space Science components will be incorporated as part of the course curriculum.
Prerequisite: Intro to Chem/Phys
ADVANCED PLACEMENT BIOLOGY [302646]:
1 credit (Weighted Course) Open 10, 11, 12
AP Biology is designed for students who possess a conceptual framework, factual knowledge, and the analytical skills necessary for understanding the rapidly changing science of biology. This course differs significantly from an initial high school biology course because it has been designed to be reflective of an introductory college course for freshmen biology majors. Students will be using a college-level textbook, will be completing multiple college-level labs, and will be studying the content with a greater range and depth. This is a laboratory science. Summer work is required.

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Prerequisite: Accelerated Science courses with at least a B average, Accelerated Chemistry (may be taken concurrently) and a teacher recommendation.

Note: Failure to complete summer work will not result in schedule change. Class must also meet a certain enrollment number to be offered at Blazer.

FORENSICS [302616]:
1 credit Open 12
This course surveys key topics in forensic science, including the application of the scientific process to forensic analysis, procedures and principles of crime scene investigation, physical and trace evidence, and the law and courtroom procedures from the perspective of the forensic scientist. Through online lessons, laboratories, and analysis of fictional crime scenarios, students learn about forensic tools, technical resources, forming and testing hypotheses, proper data collection, and responsible conclusions.

Prerequisite: Biology with a B average and teacher recommendation.

ENVIRONMENTAL SCIENCE [304620]:
1 credit Open 12
This course is open only to SENIORS. This course will investigate current environmental problems using various audiovisual materials. Objective-type testing will provide for student success and an enjoyable program in current world environmental studies. Topics covered include: air and water pollution and treatment, biohazards, recycling, thermal and light pollution, and other related topics.

ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE [304622]:
1 credit (Weighted Course) Open 12
AP Environmental Science is designed to be comparable to a typical college or university environmental science course. The topics outlined in the course are developed by the Advanced Placement Program and The College Board, these wide range of topics include ecology, policy and engineering. Six main content areas will be covered in the course; Interdependence of Earth’s Systems, Human Population Dynamics, Renewable and Nonrenewable Resources, Environmental Quality, Global Changes and their Consequences, and Environment and Society. A strong background in science and mathematics is recommended. Summer work is required.

Prerequisite: Accelerated Biology and Accelerated Chemistry and a teacher recommendation.

Note: Failure to complete summer work will not result in schedule change.

AP PHYSICS 1: ALGEBRA –BASED [304828]:
1 credit (Weighted Course) Open 11, 12
AP Physics 1 is an algebra based, introductory college level physics course. Students cultivate their understanding of physics through inquiry based investigations as they explore these topics: kinematics; dynamics; circular motion and gravitation; energy; momentum; simple harmonic motion; torque and rotational motion; electric charge and electric force; DC circuits; and mechanical waves and sound. College credit is earned with a qualifying score on an AP exam.

Prerequisite: Completion of or concurrent enrollment in either Pre-Calculus, Accelerated Pre-Calculus, or AP Calculus AB.
ACCELERATED PHYSICS I [304821A]
1 credit Open 11, 12
Students develop a conceptual understanding of physics as outlined in the Kentucky Academic Standards for Science. They experience concepts such as motions and forces, conservation of energy and the increase in disorder, interactions of energy and matter. Students will learn these core ideas through the use of the science and engineering practices and crosscutting concepts. The science and engineering practices are skills students will use as they investigate the natural world and develop solutions to problems. The crosscutting concepts are conceptual ways of thinking that cross the domains of science.

Prerequisite: Completion of or concurrent enrollment in Algebra 2 or Accelerated Algebra 2.

STEM PATHWAYS

PROJECT LEAD THE WAY® – BIOMEDICAL SCIENCE PATHWAY

The rigorous and relevant four-course PLTW Biomedical Science sequence allows students to investigate the roles of biomedical professionals as they study the concepts of human medicine, physiology, genetics, microbiology, and public health. Students engage in activities like investigating the death of a fictional person, learning content in the context of real-world cases. They examine the structures and interactions of human body systems and explore the prevention, diagnosis, and treatment of disease; all while working collaboratively to understand and design solutions to the most pressing health challenges of today and the future.

Each course in the Biomedical Science sequence builds on the skills and knowledge students gain in the preceding courses. Schools offer the three PLTW Biomedical Science foundation courses within a period of three academic years from the start of implementation and may also offer the capstone course.

PRINCIPLES OF BIOMEDICAL SCIENCE [170701]:
1 credit Open to 9, 10
In the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person’s life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems.

Prerequisite: “A” average in 8th grade science course. Concurrent enrollment in grade-level or higher math and completion of or concurrent enrollment in Biology.

Class Fee: $10

HUMAN BODY SYSTEMS [170702]:
1 credit Open to 10, 11
Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.

Prerequisite: Completed Principles of Principles of Biomedical Science and Biology with a “B” or better.

Class Fee: $10
MEDICAL INTERVENTIONS [170703]:
1 credit Open to 11, 12
Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

Prerequisite: Completed previous Biomedical Science course with a “B” or better.

Class Fee: $10

CAPSTONE COURSE – BIOMEDICAL INNOVATION* [170704]:
1 credit (Weighted Course) Open to 12
In the final course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent design project with a mentor or advisor from a university, medical facility, or research institution.

Note: Students will complete the associated KOSSA examination for this pathway.

Prerequisite: Completed previous Biomedical Science course with a “B” or better.

Class Fee: $10

HEALTH SCIENCE

HEALTH SCIENCE

Heather Pick, Chair

PRINCIPLES OF HEALTH SCIENCE [170111]:
1 credit Open to 9, 10, 11
An orientation and foundation for occupations and functions in any health care profession. The course includes broad health care core standards that specify the knowledge and skills needed by the vast majority of healthcare workers. The course focuses on exploring health career options, history of healthcare, ethical and legal responsibilities, leadership development, safety concepts, health care systems and processes, and basic health care industry skills. This introductory course may be a prerequisite for additional courses in the Health Science program.

MEDICAL TERMINOLOGY [170131]:
1 credit Open to 11, 12
A course designed to develop a working knowledge of language in all health science major areas. Students acquire word-building skills by learning prefixes, suffixes, roots and abbreviations. Students will learn correct pronunciation, spelling and application rules. By relating terms to body systems, students identify proper use of words in a medical environment. Knowledge of medical terminology enhances the student’s ability to successfully secure employment or pursue advanced education in health care.

DOSAGE CALCULATIONS (MEDICAL MATH) [170169]:
½ credit Open to 10, 11, 12
This course is designed to focus, utilize and build on mathematical skills commonly used in all health occupations. Students will use applied techniques, problem-solving and critical thinking to perform mathematical operations such as computations, ratio and proportion, weights and measurements and conversions. This course is strongly recommended for all Health Science majors. Successful completion of Algebra I is suggested prior to enrolling in this course.
EMERGENCY PROCEDURES [170141]:
½ credit Open to 10, 11, 12
This course will focus on potential emergency situations. It is designed to promote an understanding of standard precautions necessary for personal and professional health maintenance and infection control. Upon successful completion of the course, the student will demonstrate the necessary skills in First Aid and Cardiopulmonary Resuscitation (CPR) and will be given the opportunity to take the completion examination as outlined by the sponsoring agency.
Class Fee: $25.00

MEDICAID NURSE AIDE [170631]:
1 credit Open to 12
Course will be aligned with the Kentucky Medicaid Nurse Aide Handbook and will require 16 hours of supervised study at an approved long-term care facility. This course meets for 2 class periods during the semester.
Exam Fee: $50.00
Prerequisite: Completion of Principles of Health Science, Emergency Procedures, Medical Terminology/ Medical Terminology dual credit, and Anatomy/Physiology

CO-OP (Heath Sciences) [170601]:
1 - 3 credits Open to 12.
This course provides supervised on-the-job work experience related to the student’s educational objectives. Students will be required to follow program and agency requirements for attendance and health screenings. These may include but are not limited to: drug screens, TB skin test, and immunization certificates. Selection for this course is based off the student’s attendance, GPA, professionalism characteristics, and interview by health science instructors. The student will have to pass the certification exam for EKG technician, MNA, Phlebotomy, or Pharmacy technician to apply for this Co-op. Periods are subject to the student’s schedule

INTERNERSHIP: MEDICAL LABORATORY AIDE (PHLEBOTOMIST) [170567]:
1 credit Open to 12
The internship provides supervised on the job work experience related to the students' education objectives in the area of Medical Laboratory Aide/Phlebotomist. Students participating in internship for CTE courses provide supervised work site experience for high school students who are enrolled in a capstone course associated with their identified career pathway. Internship experiences consist of a combination of classroom instruction and field experiences. A student receiving pay for an intern experience is one who is participating in an experience that lasts a trimester/semester or longer and has an established employee-employer relationship. A non-paid internship affects those students who participate on a short-term basis (trimester/semester or less). This course meets for 2 class periods during the semester.
Prerequisite: Completion of Principles of Health Science, Emergency Procedures, Medical Terminology/ Medical Terminology dual credit, and Anatomy/Physiology
Class Fee: $20
Exam Fee: $117
INTERNSHIP: EKG TECHNICIAN [170555]:
1 credit Open to 12
The internship provides supervised work site experience related to the student’s education objectives in the area of EKG technician. Upon completion of the internship, students are eligible to take the EKG Technician Certification examination. Work-based learning is designed to complement the classroom instruction. Students will be required to follow program and agency requirements for attendance and health screenings. These may include but not limited to: drug screens, TB skin test, and immunization certificates.

The clinical portion of this course requires 100 hours of experience within a hospital, clinic, or physician’s office. This course meets for 2 class periods during the semester.

Prerequisite: Completion of Principles of Health Science, Emergency Procedures, Medical Terminology/ Medical Terminology dual credit, and Anatomy/Physiology
Exam Fee: $117

INTERNSHIP: PHARMACY TECHNICIAN [170558]:
1 credit Open to 12
This course may be completed as an independent study or classroom course during the student’s senior year. Material covered will include: Orientation, Federal Law, Medication Review, Aseptic Techniques, Calculations, and Pharmacy Operations. It is suggested that students complete and document at least 5-10 hours of observation and/or interview with a pharmacist or pharmacy technician. Upon completion of this internship, students are eligible to take the Pharmacy Technician Certification examination in order to obtain national certification. This internship requires supervised on-the-job work experience related to the students’ education objectives in the area of Pharmacy Technician. Students participating in the internship do not receive compensation. Students will be required to follow program and agency requirements for attendance and health screenings. These may include but are not limited to: drug screens, TB skin test, and immunization certificates. The clinical portion of this course requires a minimum of 50 hours of experience—40 hours in a retail pharmacy and 10 hours in a hospital pharmacy. This course meets for 2 class periods during the semester.

Prerequisite: Completion of Principles of Health Science, Emergency Procedures, Dosage Calculations with an A or B, Medical Terminology/ Medical Terminology dual credit, and Anatomy/Physiology
Exam Fee: $117
**Paul G. Blazer Career Pathway**

**Program Area:** Health Science  
**Pathway:** EKG Technician

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<td>English 11</td>
<td>Algebra II</td>
<td>Chemistry</td>
<td>U.S. History</td>
<td>Anatomy and Physiology or Anatomy/Physiology I*** (dual credit)</td>
<td>Medical Terminology*** (Dual credit)</td>
</tr>
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<td></td>
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<td></td>
</tr>
<tr>
<td>12TH</td>
<td>English 12</td>
<td>Fourth Year of Math</td>
<td></td>
<td></td>
<td>Internship: EKG Technician</td>
<td>Industry Certification: Certified EKG Technician (CET) Exam</td>
</tr>
</tbody>
</table>

*Freshman students require a recommendation from Counselor/Teacher and a GPA of 3.0 or above. **Indicates half-credit course.

***Dual credit through ACTC. ACTC may require specific ACT scores in Reading.

Courses in **bold** are required for the pathway. Courses *italicized* are recommended for the pathway.

NOTE: Graduation requirements also include one Arts/Humanities credit, ½ credits in Health, and ½ credits in Physical Education.
Paul G. Blazer Career Pathway

**Program Area:** Health Science  
**Pathway:** Medicaid Nurse Assistant (MNA)

<table>
<thead>
<tr>
<th>GRADE</th>
<th>ENGLISH</th>
<th>MATH</th>
<th>SCIENCE</th>
<th>SOCIAL STUDIES</th>
<th>REQUIRED COURSES AND RECOMMENDED COURSES FOR PATHWAY</th>
<th>CAREER-READY MEASURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>9TH</td>
<td>English 9</td>
<td>Algebra I</td>
<td>Integrated Science</td>
<td>Integrated Social Studies</td>
<td>Principals of Health Science*</td>
<td></td>
</tr>
<tr>
<td>10TH</td>
<td>English 10</td>
<td>Geometry</td>
<td>Biology</td>
<td>World Civilization</td>
<td>Principals of Health Science</td>
<td>Emergency Procedures** and Dosage Calculations**</td>
</tr>
<tr>
<td>11TH</td>
<td>English 11</td>
<td>Algebra II</td>
<td>Chemistry</td>
<td>U.S. History</td>
<td>Medical Terminology *** (Dual credit)</td>
<td>Anatomy and Physiology or Anatomy/Physiology f*** (Dual credit)</td>
</tr>
<tr>
<td>12TH</td>
<td>English 12</td>
<td>Fourth year of Math</td>
<td>Medicaid Nurse Aide and Co-op (Nursing)</td>
<td>Courses taught as a 2 period block over two semesters</td>
<td>Industry Certification: State Registered Nursing Assistant (SRNA)/Medicaid Nurse Aide (MNA)</td>
<td></td>
</tr>
</tbody>
</table>

*Freshman students require a recommendation from Counselor/Teacher and a GPA of 3.0 or above.  **Indicates half-credit course.

***Dual credit through ACTC. ACTC may require specific ACT scores in Reading.

Courses in **bold** are required for the pathway. Courses italicized are recommended for the pathway.

NOTE: Graduation requirements also include one Arts/Humanities credit, ½ credits in Health, and ½ credits in Physical Education.
Paul G. Blazer Career Pathway

**Program Area:** Health Science  
**Pathway:** Pharmacy Technician

<table>
<thead>
<tr>
<th>GRADE</th>
<th>ENGLISH</th>
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<th>SCIENCE</th>
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</tr>
</thead>
<tbody>
<tr>
<td>9TH</td>
<td>English 9</td>
<td>Algebra I</td>
<td>Integrated Science</td>
<td>Integrated Social Studies</td>
<td>Principals of Health Science*</td>
<td></td>
</tr>
</tbody>
</table>
| 10TH  | English 10  | Geometry        | Biology          | World Civilization | Principals of Health Science | Emergency Procedures**  
Dosage Calculations** |
| 11TH  | English 11  | Algebra II      | Chemistry        | U.S. History    | Anatomy and Physiology or Anatomy/Physiology I*** (Dual credit) | Medical Terminology*** (Dual credit) |
| 12TH  | English 12  | Fourth Year of Math |                 |                | Internship: Pharmacy Technician | Industry Certification: Pharmacy Technician Certification Board (CPhT) |

*Freshman students require a recommendation from Counselor/Teacher and a GPA of 3.0 or above.  
**Indicates half-credit course.  
***Dual credit through ACTC. ACTC may require specific ACT scores in Reading.  
Courses in **bold** are required for the pathway. Courses *italicized* are recommended for the pathway.  
NOTE: Graduation requirements also include one Arts/Humanities credit, ½ credits in Health, and ½ credits in Physical Education.
### Paul G. Blazer Career Pathway

**Program Area:** Health Science  
**Pathway:** Phlebotomy Technician

<table>
<thead>
<tr>
<th>GRADE</th>
<th>ENGLISH</th>
<th>MATH</th>
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<th>SOCIAL STUDIES</th>
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</thead>
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<td>Integrated Science</td>
<td>Integrated Social Studies</td>
<td>Principles of Health Science*</td>
<td></td>
</tr>
<tr>
<td>10TH</td>
<td>English 10</td>
<td>Geometry</td>
<td>Biology</td>
<td>World Civilization</td>
<td>Principals of Health Science</td>
<td>Emergency Procedures** and Dosage Calculations**</td>
</tr>
<tr>
<td>11TH</td>
<td>English 11</td>
<td>Algebra II</td>
<td>Chemistry</td>
<td>U.S. History</td>
<td>Anatomy and Physiology or Anatomy/Physiology I*** (Dual credit)</td>
<td>Medical Terminology*** (Dual credit)</td>
</tr>
<tr>
<td>12TH</td>
<td>English 12</td>
<td>Fourth Year of Math</td>
<td></td>
<td>Internship: Medical Laboratory Aide (Phlebotomist)</td>
<td>Industry Certification: Phlebotomy Technician Certification Exam (CPT)</td>
<td></td>
</tr>
</tbody>
</table>

*Freshman students require a recommendation from Counselor/Teacher and a GPA of 3.0 or above.  
**Indicates half-credit course.  
***Dual credit through ACTC. ACTC may require specific ACT scores in Reading.

Courses in **bold** are required for the pathway. Courses *italicized* are recommended for the pathway.

**NOTE:** Graduation requirements also include one Arts/Humanities credit, ½ credits in Health, and ½ credits in Physical Education.
CTE – ENGINEERING PATHWAY

In Engineering, students engage in open-ended problem solving, learn and apply the engineering design process, and use the same industry-leading technology and software as are used in the world’s top companies. Students are immersed in design as they investigate topics such as sustainability, mechatronics, forces, structures, aerodynamics, digital electronics and circuit design, manufacturing, and the environment, which gives them an opportunity to learn about different engineering disciplines before beginning post-secondary education or careers.

ENGINEERING I [210221]
1 credit  Open to 9, 10, 11, 12
This course applies the skills, concepts, and principles of engineering. Students explore various technological systems and engineering processes in related career fields. Topics include investigating technological system, design optimization, and problem solving. Students utilize CAD (computer-aided design) and physical and virtual modeling concepts to construct, test, collect, and report data. Participation in Kentucky Technology Student Association will greatly enhance instruction.

ENGINEERING II [210222]
1 credit  Open to 10, 11, 12
A project and research based course that extends the learning experiences where students focus on mechanical, electrical, fluid and thermal systems allowing in depth exploration in selected disciplines of engineering areas such as manufacturing, power/energy/transportation, robotics, hydraulics, electricity/electronics, communications, construction systems, alternative energy, computer-aided design, and problem solving. Participation in Kentucky Technology Student Association will greatly enhance instruction.
Pre-requisite: Students must have successfully completed or currently be enrolled in Algebra 2 to take this class.

CIVIL ENGINEERING [210223]
1 credit  Open to 10, 11, 12
This is an introduction to residential and light commercial building construction and design. Students will learn basic sketching, architectural drafting skills with an emphasis on computer aided drafting. In this class, students will design a structure relevant to today’s modern architecture and create models of their designs with various materials and tools. Students will experience and solve many problems in designing or building structures with regard to environment and community impact and limitations from town planning, urban design and landscape architecture to furniture and objects. Participation in Kentucky Technology Student Association will greatly enhance instruction.
Prerequisites: Engineering I 210221 and/or Engineering II 210222

MANUFACTURING ENGINEERING [210225]
1 credit  Open to 10, 11, 12
This comprehensive course designed for the study of general concepts and principles of manufacturing and manufacturing systems. This course provides for hands-on learning experience which enhances the understanding of various metallic/nonmetallic materials, processes, and products. Materials studied may include polymers, ceramics, woods, composites, and metal materials associated with manufacturing. Students have the opportunity to engage in product design, prototyping, computer-aided manufacturing applications, CNC machines, robotics, and production management. Participation in Kentucky Technology Student Association will greatly enhance instruction.
Prerequisites: Engineering I 210221 and/or Engineering II 210222
Pre-requisite: Students must have successfully completed or currently be enrolled in Geometry to take this class.
ENGINEERING CAPSTONE [210110]
1 credit Open to 11, 12
Engineering scope, content, and professional practices are presented through practical applications in this capstone course. Students in engineering teams apply technology, Kentucky Academic Standards, and skills to solve engineering design problems and create innovative designs. Students research, develop, test and analyze engineering designs using criteria such as design effectiveness, public safety, human factors and ethics. Participation in Kentucky Technology Student Association will greatly enhance instruction.

**Prerequisites:** Engineering I 210221 and/or Engineering II 210222
Paul G. Blazer Career Pathway

Program Area: CTE/STEM
Pathway: Engineering/Architecture

<table>
<thead>
<tr>
<th>GRADE</th>
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<td>9TH</td>
<td>English 9</td>
<td>Algebra I</td>
<td>Integrated Science</td>
<td>Integrated Social Studies</td>
<td>Introduction to Engineering Design (IED)</td>
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<tr>
<td>10TH</td>
<td>English 10</td>
<td>Geometry</td>
<td>Biology</td>
<td>World Civilizations</td>
<td>Principles of Engineering (POE)</td>
<td></td>
</tr>
<tr>
<td>11TH</td>
<td>English 11</td>
<td>Algebra II</td>
<td>Chemistry</td>
<td>U.S. History</td>
<td>Civil Engineering and Architecture (CEA)</td>
<td></td>
</tr>
<tr>
<td>12TH</td>
<td>English 12</td>
<td>Fourth Year of Math</td>
<td>Engineering and Technology Internship</td>
<td>KOSSA Engineering and Technology Manufacturing</td>
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</tbody>
</table>

Courses in **bold** are required for the pathway. Courses *italicized* are recommended for the pathway.

NOTE: Graduation requirements also include one Arts/Humanities credit, ½ credits in Health, and ½ credits in Physical Education.
Paul G. Blazer Career Pathway

Program Area: CTE/STEM

Pathway: Engineering/Manufacturing

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<tr>
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<td>Geometry</td>
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<td>World Civilizations</td>
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<tr>
<td>11TH</td>
<td>English 11</td>
<td>Algebra II</td>
<td>Chemistry</td>
<td>U.S. History</td>
<td>Computer Integrated Manufacturing (CIM)</td>
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<tr>
<td>12TH</td>
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<td></td>
<td>Engineering and Technology Internship</td>
<td>KOSSA Engineering and Technology Manufacturing</td>
<td></td>
</tr>
</tbody>
</table>

Courses in **bold** are required for the pathway. Courses *italicized* are recommended for the pathway.

NOTE: Graduation requirements also include one Arts/Humanities credit, ½ credits in Health, and ½ credits in Physical Education.
SOCIAL STUDIES DEPARTMENT: Phil Wittich, Chair

SOCIAL STUDIES – 3 CREDITS REQUIRED (GEOGRAPHY/CIVICS, WORLD CIVILIZATIONS, and U. S. HISTORY). SEQUENCE OF COURSES AT BLAZER:

9th Grade: Integrated Social Studies
10th Grade: World Civilizations
11th Grade: US History
Electives: Psychology, Sociology, as well as AP offerings.

COLLEGE AND CAREER INTEGRATED SOCIAL STUDIES [459801]:
1 credit Open to 9
Students will examine both the physical and human geography of our world including culture, conflict, and global impact. Students will examine the global issues that affect the United States economically, militarily, and politically. A portion of this class is devoted to the political process and Constitution of the United States of America. Map, graph, and chart reading skills will be emphasized throughout the course.

ACCELERATED INTEGRATED SOCIAL STUDIES [459801A]:
1 credit Open to 9
Students will take an in-depth examination of the ever-changing world around them. Students will examine both the physical and human geography of our world including culture, conflict, and global impact. Heavy emphasis will be put on the nations and global issues that directly impact the United States economically, militarily, and politically. A portion of this class is devoted to the political process, economic system, and Constitution of the United States of America. The student will investigate the concepts and schools of economics as well as many economies from around the world. Map, graph, and chart reading skills will be emphasized throughout the course.
Prerequisite: Students must simultaneously meet requirements for and be enrolled in Accelerated English 9.

ACCELERATED WORLD CIVILIZATIONS [450835A]:
1 credit Open to 10
This course is a chronological, in-depth study of world civilizations from the Renaissance to present day, beginning with a regional approach from Middle Ages to the onset of WWI and culminating with a global approach from the end of WWI to the present day. The course is specifically designed for students who have demonstrated a high level of academic excellence and a strong work ethic in social studies. Furthermore, many activities are designed to prepare students for advanced placement social studies courses. Activities include but are not limited to creative and analytical writing, research projects, book reviews, and analysis of primary documents.
Prerequisite: Students must have maintained an “A” average in Accelerated Integrated Social Studies or an ‘A” in all four quarters of CCR Integrated Social Studies (not an average).

COLLEGE AND CAREER WORLD CIVILIZATIONS [450835]:
1 credit Open to 10
In this course students will participate in an in-depth chronological study of world civilization from the Renaissance to present day, beginning with a regional approach from the Middle Ages to the onset of WWI and culminating with a global approach from the end of WWI to the present day. Ethnic and cultural appreciation is stressed.
ADVANCED PLACEMENT U.S. HISTORY [450814]:
1 credit (Weighted Course) Open to 11
AP United States History is designed to be the equivalent of a two-semester introductory college U.S. history course and is very rigorous. To receive college credit, students must pass the AP United States History exam. The AP exam is difficult; however with time and effort a passing score can be achieved. The course focuses on developing students’ understanding of American History from approximately 1492 to present day. The course has students investigate the content of U.S. History for significant events, individuals, and develop historical thinking skills. Students will analyzing primary and secondary sources, making historical comparisons, develop chronological reasoning, and historical argumentation. Solid reading and writing skills, along with a willingness to devote considerable time to homework and study are necessary to succeed. The class is designed for the student who will take the time to read and complete the material. In addition, attendance is extremely important in this class.

Students may be eligible (depending upon exam score and university policy) to earn college credit.
Prerequisite: Students must have maintained an “A” average in ACC World Civilizations or have recorded an “A” in all four quarters of CCR World Civilizations (not an average).

COLLEGE AND CAREER UNITED STATES HISTORY [450812]:
1 credit Open to 11
This course is designed to greatly enrich student knowledge and appreciation for the history of the United States. This course examines the evolution of the American republic from the initial European incursions into North America to the present providing students with a civic education focusing on concepts such as compromise, rights and responsibilities, and to understand democracy.

ADVANCED PLACEMENT U.S. GOVERNMENT & POLITICS [451030]:
1 credit (Weighted Course) Open to 12
AP U.S. Government and Politics provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students will study U.S. foundational documents, Supreme Court decisions, and other texts and visuals to gain an understanding of the relationships and interactions among political institutions, processes and behaviors.
Prerequisite: Students must have maintained an "A" or "B" average in AP U.S. History or recorded an "A" in every quarter of CCR U.S. History (not an average).

PSYCHOLOGY [459901]:
½ credit Open to 11, 12
The purpose of this course is to investigate why human beings think and act the way they do. This course will cover a general introduction to the field of psychology, the scientific study of behavior. Topics surveyed include scientific methodology, biological bases of behavior, sensation and perception, states of consciousness, learning, thinking, memory, motivation and emotion, development, personality, stress and health, psychological disorders and psychotherapy, social interaction, and diversity. Theories and current research will be presented for the student to critically evaluate and understand. Each Module will present the terminology, theories and research that are critical to the understanding of the topic. Assignments and assessments will be included as well as presentations and interactive experiments.

SOCIOLOGY [451121]:
½ credit Open to 11, 12
Sociology is the scientific study of human society. It is concerned with the behavior of human beings in group situations. The study of sociology, therefore, consists of trying to understand: The basic units and institutions of social life, such as the family, schools, neighborhoods, rural and urban communities, and the many other kinds of groups with which humans identify. This group can include occupational, political, religious, ethnic, family, economic status, or ideology. The sociological perspectives focus on how those social relationships arise, why they persist, why antagonisms develop, and how they maintain social order to contribute to social change.

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**SPECIAL PROGRAMS:**

**SPECIAL PLACEMENT [909999]:**

No credit Open 12

Special Placement is available to seniors who have a GPA 3.75 or higher and do not need a credit for this class period in order to graduate. Students who select special placement may be assigned randomly to work for the principal, assistant principals, attendance officer, counselors, librarians, or teachers. If a student does not fulfill the responsibilities of the special placement assignment, he/she will be rescheduled into another class at the discretion of the counselor and/or principal. Only one Special Placement may be taken each year.
CONSTRUCTION CARPENTRY TECHNOLOGY:  Randy Heaberlin, Instructor

INTRODUCTION TO CONSTRUCTION CARPENTRY [460201]:
1 Credit  Open to 9, 10, 11, 12
This course is the introduction to the construction carpentry industry. The class will emphasize safe and proper methods of operating hand tools, portable power tools, and stationary power tools in the construction industry.

CEILING AND ROOF FRAMING [460213]:
1 Credit  Open to 11, 12
This course covers roof types and combinations of roof types used in the construction industry. The emphasis of this course is on layout, cutting and installing ceiling joists, rafters, roof sheathing, and roof coverings for both commercial and residential construction.

FLOOR AND WALL FRAMING [460212]:
1 Credit  Open to 11, 12
The student will practice floor framing, layout, and construction of floor frames. Cutting and installing floor and wall framing members according to plans and specifications will also be practiced.

SITE LAYOUT AND FOUNDATIONS [460214]:
1 Credit  Open to 10, 11, 12
Students will prepare materials; calculate the cost for a building site, and layout a site with a transit, locating property lines and corners. Students calculate the amount of concrete needed for footing and foundation walls and construct different types of foundations and forms.

CABINET CONSTRUCTION AND INSTALLATION  [460209]:
1 Credit  Open 10, 11, 12
Students will layout and plan the construction of base and wall cabinets. They will prepare wood surfaces for finishing as well as install cabinets and special units.

CONSTRUCTION PRINTS  [460217]:
1 Credit  Open 10, 11, 12
This course will provide a series of lectures, demonstrations, and practice exercises in the study of symbols, views, sections, details, and material lists found on architectural working drawings, building materials and specifications lists, and construction dimensioning systems and charts/schedules.

EXTERIOR AND INTERIOR FINISH  [460219]:
1 Credit  Open 10, 11, 12
This course presents basic concepts of building trim, gypsum wallboard, paneling, base, ceiling and wall molding with instruction on acoustical ceilings and insulation, wood floors, tile, inlaid adhesive and tools of the flooring trade. This course will continue to refine the techniques and skills taught in the previous carpentry courses. In this course, cost control, speed, and precision are emphasized. In addition, students will demonstrate the skills associated with the exterior finishing of a house.

SPECIAL TOPICS (CONSTRUCTION CARPENTRY)  [460298]:
1 Credit  Open to 12
This course provides instruction related to Carpentry Technology but not described in the other courses. Students will complete selected tasks and problems as determined by the instructor and approved by Program Consultant.
# Paul G. Blazer Career Pathway

**Program Area:** Carpentry Construction  
**Pathway:** Residential Carpenter Assistant CIP 46.0201.02

<table>
<thead>
<tr>
<th>GRADE</th>
<th>ENGLISH</th>
<th>MATH</th>
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<tr>
<td>9TH</td>
<td>English 9</td>
<td>Algebra I</td>
<td>Integrated Science</td>
<td>Integrated Social Studies</td>
<td>Introduction to Construction Technology</td>
<td></td>
</tr>
<tr>
<td>10TH</td>
<td>English 10</td>
<td>Geometry</td>
<td>Biology</td>
<td>World Civilizations</td>
<td>Floor &amp; Wall Framing</td>
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</tr>
<tr>
<td>11TH</td>
<td>English 11</td>
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<td>Chemistry</td>
<td>U.S. History</td>
<td>Ceiling &amp; Roof Framing</td>
<td></td>
</tr>
</tbody>
</table>
| 12TH  | English 12   | Fourth Year of Math |                     |                        | Exterior & Interior Finish                             | Industry Certification Exam: 3 Exams Required  
|       |              |              |                       |                        |                                                      | OSHA 10  
|       |              |              |                       |                        |                                                      | National Center for Construction  
|       |              |              |                       |                        |                                                      | Education Research (NCCER)  
|       |              |              |                       |                        |                                                      | - Core Curriculum  
|       |              |              |                       |                        |                                                      | National Center for Construction  
|       |              |              |                       |                        |                                                      | Education Research (NCCER)  
|       |              |              |                       |                        |                                                      | - Construction  
|       |              |              |                       |                        |                                                      | Carpentry Level 1 |

**Complete 4 Credits in Required Courses**

Courses in **bold** are required for the pathway. Courses *italicized* are recommended for the pathway.

**NOTE:** Graduation requirements also include one Arts/Humanities credit, ½ credits in Health, and ½ credits in Physical Education.
### Paul G. Blazer Career Pathway

**Program Area:** Carpentry Construction  
**Pathway:** Skilled Trades Commercial Carpentry Track CIP 46.0201.99

<table>
<thead>
<tr>
<th>GRADE</th>
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<td>Introduction to Construction Technology</td>
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</tr>
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<td>Chemistry</td>
<td>U.S. History</td>
<td>Ceiling &amp; Roof Framing</td>
<td></td>
</tr>
<tr>
<td>12TH</td>
<td>English 12</td>
<td>Fourth Year of Math</td>
<td></td>
<td></td>
<td>Site Layout &amp; Foundations</td>
<td>Industry Certification Exam: 2 Certifications Required OSHA 10 AND TRACK Pre-Apprenticeship Certification</td>
</tr>
</tbody>
</table>

*Complete 4 Credits in Required Courses*

Courses in **bold** are required for the pathway. Courses *italicized* are recommended for the pathway.

**NOTE:** Graduation requirements also include one Arts/Humanities credit, ½ credits in Health, and ½ credits in Physical Education.
Students wishing to enter a public university must earn at least 2 credits in the same World Language. Students who completed Spanish at Verity Middle School in 7th and 8th grade can complete this requirement by completing Spanish 2. Seniors must obtain written permission from the teacher of the language before taking a level-one language course.

**FRENCH 1 [160408]:**
1 credit Open to 9, 10, 11 (12th grade with teacher’s permission)
Prepares students to: perform interpersonal, interpretive and presentational communicative tasks within the novice range on the ACTFL Proficiency scale; interpret, exchange, and present, information, concepts and ideas both within the classroom and beyond on a variety of topics including connections to other subject areas; and understand the relationship among the products, practices and perspectives of francophone and other cultures. In addition, students develop insight into their own language and culture. **Prerequisite:** B or better in English class the previous year, MUST BE enrolled in CCR English course or higher.

**FRENCH 2 [160409]:**
1 credit Open to 10, 11, 12
Prepares students to: perform interpersonal, interpretive and presentational communicative tasks within the novice high to intermediate low range on the ACTFL Proficiency scale; interpret, exchange, and present, information, concepts and ideas both within the classroom and beyond on a variety of topics including connections to other subject areas; and understand the relationship among the products, practices and perspectives of francophone and other cultures. In addition, students develop insight into their own language and culture. **Prerequisite:** A “C” or better in French 1

**ACCELERATED FRENCH 2 [160409A]:**
1 credit Open to 10, 11, 12
Prepares students to: perform interpersonal, interpretive and presentational communicative tasks within the novice high to intermediate low range on the ACTFL Proficiency scale; interpret, exchange, and present, information, concepts and ideas both within the classroom and beyond on a variety of topics including connections to other subject areas; and understand the relationship among the products, practices and perspectives of francophone and other cultures. This course is fast paced and intended for students who plan to complete Accelerated French 3 and AP French during their course of study. **Prerequisite:** French 1 with a grade of “A” or teacher’s permission. Accelerated French 2 is exclusively for those students intending to continue the study of French at the conclusion of this course.

**ACCELERATED FRENCH 3 [160410A]:**
1 credit Open to 10, 11, 12
Prepares students to: perform interpersonal, interpretive and presentational communicative tasks within the intermediate low to intermediate mid-range on the ACTFL Proficiency scale; interpret, exchange, and present, information, concepts and ideas both within the classroom and beyond on a variety of topics including connections to other subject areas; and understand the relationship among the products, practices and perspectives of francophone and other cultures. In addition, students develop insight into their own language and culture. **Prerequisite:** A grade of “B” average or higher in French 2 Accelerated, A grade of “A” in French 2 or permission.
ADVANCED PLACEMENT FRENCH [160430]:
1 credit (Weighted Course) Open to 11, 12
Prepares students for the Advanced Placement exam. Prepares students to understand and use the complexities of language fluently and accurately to perform communicative tasks. The course engages students in an exploration of culture in contemporary and historical contexts, developing students’ awareness and appreciation of tangible and intangible products, practices and perspectives.
Prerequisite: A “B” average or better in Accelerated French 3 and completion of summer assignment.
Note: Failure to complete summer homework will not result in a schedule change.

SPANISH 1 [161108]:
1 credit Open to 9, 10, 11, (12th grade with teacher’s permission)
Prepares students to: perform interpersonal, interpretive and presentational communicative tasks within the novice range on the ACTFL Proficiency scale; interpret, exchange, and present, information, concepts and ideas both within the classroom and beyond on a variety of topics including connections to other subject areas; and understand the relationship among the products, practices and perspectives of other cultures. In addition, students develop insight into their own language and culture.
Prerequisite: B or better in English class the previous year, MUST BE enrolled in CCR English course or higher.
Note: Students who have completed 2 years of Middle School Spanish and received credit for Spanish 1 are not eligible to take this course.

SPANISH 2 [161109]:
1 credit Open to 9, 10, 11, 12
Prepares students to: perform interpersonal, interpretive and presentational communicative tasks within the novice high to intermediate low range on the ACTFL Proficiency scale; interpret, exchange, and present, information, concepts and ideas both within the classroom and beyond on a variety of topics including connections to other subject areas; and understand the relationship among the products, practices and perspectives of other cultures. In addition, students develop insight into their own language and culture.
Prerequisite: A “C” or better in Spanish 1.

ACCELERATED SPANISH 2 [161109A]:
1 credit Open to 9, 10, 11, 12
Prepares students to: perform interpersonal, interpretive and presentational communicative tasks within the novice high to intermediate low range on the ACTFL Proficiency scale; interpret, exchange, and present, information, concepts and ideas both within the classroom and beyond on a variety of topics including connections to other subject areas; and understand the relationship among the products, practices and perspectives of other cultures. In addition, students develop insight into their own language and culture.
Prerequisite: Spanish 1 with a grade of “A” or teacher’s permission. Accelerated Spanish 2 is exclusively for those students intending to continue the study of Spanish at the conclusion of this course.

ACCELERATED SPANISH 3 [161110A]:
1 credit Open to 10, 11, 12
Prepares students to: perform interpersonal, interpretive and presentational communicative tasks within the intermediate low to intermediate-mid range on the ACTFL Proficiency scale; interpret, exchange, and present, information, concepts and ideas both within the classroom and beyond on a variety of topics including connections to other subject areas; and understand the relationship among the products, practices and perspectives of other cultures. In addition, students develop insight into their own language and culture.
Prerequisite: A grade of “B” average or higher in Spanish 2 Accelerated, A grade of “A” in Spanish 2 or permission.
AP SPANISH LANGUAGE & CULTURE [161130]:
1 credit (Weighted Course) Open to 11, 12
Prepares students for the Advanced Placement exam. Prepares students to understand and use the complexities of the Spanish language fluently and accurately to perform communicative tasks. The course engages students in an exploration of culture in contemporary and historical contexts, developing students’ awareness and appreciation of tangible and intangible products, practices and perspectives.
Prerequisite: A “B” average or better in Accelerated Spanish 3 and completion of summer assignment.
Note: Failure to complete summer homework will not result in a schedule change.