Heritage High School

Mission

At Heritage High School our mission is to graduate all students with a quality education in a structured, safe learning environment. The mission we share is to provide an education that is focused on the changing needs of the students, employers, and the global community.

Vision

To be successful in the twenty-first century, we at Heritage High School see the school centered on student learning in a high performing culture as we prepare all students to be life-long learners. Our curriculum will continue to be designed to prepare all students to be successful in a vocation or with post secondary opportunities.

INTRODUCTION

This Curriculum Guide is intended to familiarize students and their parents with the variety of course offerings at Heritage High School. It includes students’ graduation requirements and other information needed to develop a comprehensive four-year plan to meet their individual needs.

The courses described in this booklet are potential offerings for the 2013-2014 school year. Through the registration process in the spring, an academic schedule will be developed based upon each student's graduation requirements and requests for elective courses. The elective courses listed here are subject to change and may not become part of the final schedule if there is insufficient demand.

While every effort has been made to make this Curriculum Guide clear, students and their parents often have questions about the course selection process. Please feel free to contact counselors, administrators, or teachers if you require additional assistance. Our phone number is (865) 984-8110 and our fax number is (865) 984-0147.

STUDENT ADVISING

Counselors are available at Heritage High School to provide assistance with educational advising, career and college planning, individual counseling, and consultation with parents and teachers. They can be reached by calling the Counseling Center Office at 984-8110.

Students transferring from other schools will meet with HHS counselors to develop a schedule. These students must bring several documents with them prior to registering: a withdrawal form and transcript from the previous school, a current Tennessee Health Department Record of Immunizations, documents of custodial arrangements, and a copy of their IEP if they are special education students.

An administrator will be assigned to each grade level, and a school counselor will be assigned to sophomore, junior, and senior students by last name. Each year the same administrator and counselor will be assigned to the Ninth Grade Academy. For upperclassmen, both the administrator and counselor will remain with their assigned group until graduation.

Research has shown that the continuity of the same administrator and counselor will benefit students. Students and parents will become more familiar and more comfortable with opening the lines of communication between school and home. By everyone working together there will be a greater opportunity to produce positive results in the areas of academics, attendance, discipline and career planning.
The administrator teams for 2013-2014 are as follows:

- Grade 9    Mimi Williams
- Grade 10   Colleen Mattison
- Grade 11   Tim Stafford
- Grade 12   Jeff Sherman

Kim Headrick is the 9th grade counselor. Sophomores, juniors, and seniors will be divided among counselors by last name. Those assignments are as follows:

- A – G     Beth Kyburz
- H – O     Brad Rasmussen
- P – Z     Heidi Whitehouse

**PARENT INVOLVEMENT**

We find that students whose parents are connected to school tend to be more successful, and we encourage parent involvement as well as two-way communication between home and school in the following ways:

- Access to student progress reports, grades and attendance is available online through the Planet High School, which can be accessed from the Heritage High School website [HTTP://WWW.BLOUNTK12.ORG/SCHOOLS/HHS/INDEX.HTML](HTTP://WWW.BLOUNTK12.ORG/SCHOOLS/HHS/INDEX.HTML). Parents must get their password and ID number from the Principal’s secretary.

- We host several workshops for parents on topics parents have requested information about including choosing courses, ninth grade registration, planning for the senior year, planning for college, seeking financial aid and scholarships and dual enrollment options.

- We host Parent/Teacher Conferences twice per year; right after Nine Week Report cards go home.

- All of our teachers have phones with voice-mail, and parents are encouraged to call. Our teachers also have e-mail accounts, if you prefer to contact us that way. An e-mail list for Heritage teachers can be accessed by clicking the “Phone/E-mail List” link on the Blount County Schools homepage

- HHS subscribes to the computer software program *School Messenger* that makes computerized phone calls to the homes of our students. We send phone messages about upcoming events and activities.

- Finally, our students participate in a wide array of public events including athletic contests, musical concerts, and theater performances. We hope that all parents will attend these events.
NINTH GRADE ACADEMY

All first-time ninth graders at Heritage High School are a part of the Freshman Academy. The goal of the Academy is to ease the transition from middle school to high school. Research has shown that by fostering a safe, positive learning environment, promoting communication between parent/student/teacher and developing a sense of pride and respect for education, there is a significant increase in not only the graduation rate but the quality of academic knowledge gained. Each incoming 9th grader will work with a team of teachers, a 9th grade counselor, and an administrator.

Some of the benefits of this concept will be centralized location of academic classes, smaller class sizes, varied interests offered through elective classes, a consistent discipline plan for the entire academy, uniform academic expectations/syllabus/evaluations for cross team classes as well as interdisciplinary activities to apply learned knowledge to real-life situations. This team approach will not only maximize the potential for success for each student, it will also enhance the development of higher order thinking skills and foster a sense of belonging.

GRADUATION REQUIREMENTS

<table>
<thead>
<tr>
<th>State Core Curriculum</th>
<th>Credits</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4</td>
<td>Eng. I, Eng II, Eng III, Eng. IV</td>
</tr>
<tr>
<td>Mathematics*</td>
<td>4 years</td>
<td>Alg. I, Geometry, Alg. II, one class beyond Alg. II</td>
</tr>
<tr>
<td>Science</td>
<td>3</td>
<td>Biology, Chemistry or Physics, one additional science</td>
</tr>
<tr>
<td>Social Studies</td>
<td>4</td>
<td>W. Geography or W. History, US History, Economics, US Government</td>
</tr>
<tr>
<td>Physical Fitness</td>
<td>1.5</td>
<td>Wellness, .5 credit in PE or other activity. Could be Marching Band, School Sport, ROTC, etc.</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>1</td>
<td>Art, Music, Theatre</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>2</td>
<td>In same language- French or Spanish</td>
</tr>
<tr>
<td>Personal Finance</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Program of Study</td>
<td>3</td>
<td>Can be Career Technical, Academic, Fine Arts, ROTC**</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Local Requirement</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer</td>
<td>1</td>
</tr>
</tbody>
</table>

Total 24

A HERITAGE HIGH SCHOOL DIPLOMA REQUIRES 28 CREDITS

*Students must take a math course each year of high school including Algebra I, Geometry, Algebra II and one class beyond Algebra II.

Programs of Study offered at Heritage High School include:

Math & Science; Humanities; Advanced Placement; Fine Arts; Air Force JROTC; Agriculture, Food & Natural Resources; Transportation, Distribution & Logistics; Information Technology; Architecture and Construction; Hospitality and Tourism; Marketing, Sales and Services; Finance; Health Science; Human Services; Education and Training.

For a more detailed list of Programs of Study, please see the back of this curriculum guide.
GRADING SCALE

Heritage High School uses the following grading scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage Range</th>
<th>Weighting for Honors courses and National Industry Certification</th>
<th>Weighting for Advanced Placement Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>93</td>
<td>Will include the addition of 3 percentage points to the grades used to calculate the semester average.</td>
<td>Will include the addition of 5 percentage points to the grades used to calculate the semester average.</td>
</tr>
<tr>
<td>B</td>
<td>85</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>75</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>70</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Assigning additional quality points above 4.0 for honors courses, AP, and National Industry certification courses is not allowed for the purpose of determining eligibility for the lottery scholarships.

Framework of Standards for Honors Courses

Honors courses will substantially exceed the content standards, learning expectations, and performance indicators approved by the State Board of Education. Teachers of honors courses will model instructional approaches that facilitate maximum interchange of ideas among students: independent study, self-directed research and learning, and appropriate use of technology. All honors courses must include multiple assessments exemplifying coursework (such as short answer, constructed response prompts, performance-based tasks, open-ended questions, essays, original or creative interpretations, authentic products, portfolios, and analytical writing). Additionally, an honors course shall include a minimum of five of the following components.

i. Extended reading assignments that connect with the specified curriculum.

ii. Research-based writing assignments that address and extend the course curriculum.

iii. Projects that apply course curriculum to relevant real-world situations. These may include oral presentations, power point, or other modes of sharing findings. Connection of the project to the community is encouraged.

iv. Open-ended investigations in which the student selects the questions and designs the research.

v. Writing assignments that demonstrate a variety of modes, purposes, and styles.
   I. Examples of mode include narrative, descriptive, persuasive, expository, and expressive.
   II. Examples of purpose include informing, entertaining, and persuading.
   III. Examples of style include formal, informal, literary, analytical, and technical.

vi. Integration of appropriate technology into the course of study.

vii. Deeper exploration of the culture, values, and history of the discipline.

viii. Extensive opportunities for problem solving experiences through imagination, critical analysis, and application.

ix. Job shadowing experiences, with presentations that connect class study to the world of work.

All course types which meet the above framework will be classified as honors, eligible for additionally percentage point weighting.
GRADE POINT AVERAGES AND COURSE WEIGHTING

Grade point averages (GPA) are calculated at the end of each term. Blount County Schools use a weighted G.P.A. to determine class rank, Top 10%, and the Valedictorian and Salutatorian.

The following courses are weighted:

<table>
<thead>
<tr>
<th>Honors English I</th>
<th>Honors Algebra I</th>
<th>Honors Biology I</th>
</tr>
</thead>
<tbody>
<tr>
<td>Honors English II</td>
<td>Honors Algebra II</td>
<td>Honors Biology II</td>
</tr>
<tr>
<td>Honors English III</td>
<td>Honors Geometry</td>
<td>Honors Chemistry I</td>
</tr>
<tr>
<td>Honors English IV</td>
<td>Trigonometry</td>
<td>Honors Chemistry II</td>
</tr>
<tr>
<td>Honors World Geography</td>
<td>Pre-Calculus</td>
<td>Honors Physics</td>
</tr>
<tr>
<td>Honors World History</td>
<td>Probability &amp; Statistics</td>
<td>Anatomy &amp; Physiology</td>
</tr>
<tr>
<td>Honors US History</td>
<td>French III</td>
<td>Clinical Internship</td>
</tr>
<tr>
<td>Honors Government</td>
<td>Spanish III</td>
<td>Band Ensemble</td>
</tr>
<tr>
<td>Honors Economics</td>
<td>Theater III</td>
<td>Vocal Music/Singers</td>
</tr>
</tbody>
</table>

AP Calculus AB | AP English III | AP Human Geography |
AP Calculus BC | AP English IV | AP European History |
AP Probability and Statistics | AP Biology | AP US History |

* Advanced Placement weighting will follow these guidelines:
  1. Semester long AP classes will receive AP weighting for 1 credit
  2. Year long AP classes will receive honors weighting for 1 credit earned in the Fall semester and will receive AP weighting for 1 credit earned in the Spring semester.

* Dual Enrollment classes will be given honors weighting

The following scale is used to determine GPAs:

<table>
<thead>
<tr>
<th>Numerical Grade</th>
<th>Regular Course</th>
<th>Honors Course</th>
<th>Advanced Placement</th>
</tr>
</thead>
<tbody>
<tr>
<td>93-100</td>
<td>4.0</td>
<td>4.5</td>
<td>5.0</td>
</tr>
<tr>
<td>85-92</td>
<td>3.0</td>
<td>3.5</td>
<td>4.0</td>
</tr>
<tr>
<td>75-84</td>
<td>2.0</td>
<td>2.5</td>
<td>3.0</td>
</tr>
<tr>
<td>70-74</td>
<td>1.0</td>
<td>1.5</td>
<td>2.0</td>
</tr>
<tr>
<td>Below 70</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
</tbody>
</table>

AP AND HONORS COURSES

Heritage High School offers academic courses that are designated as honors or AP/Advanced Placement. These courses offer our academically talented students opportunities to expand and excel in various core areas as they prepare for the rigors of university work. AP courses also prepare students to take the Advanced Placement examinations in the spring, which will provide them with the opportunity to earn college credit in those subjects. We strongly urge students with outstanding abilities to enroll in these courses.
GRADE REPORTING
The 2013-2014 academic year for grades 9-12 will be divided into two terms of 18 weeks. Each 18-week term generates one full credit in each course passed with a grade of 70 or higher. Grade Cards are printed two times during the 18-week term: at the end of the First Nine Weeks and at the end of the term. Midterm Progress Reports are completed at the midpoint (4 ½ weeks) of each nine-week grading period. These Progress Reports are computer generated for each class in which a student is enrolled that semester. It is the student’s responsibility to take them home to their parents. After completing the First Nine Weeks, students are given their grade card to take home.

ATHLETIC ELIGIBILITY
To be eligible to participate in athletic competition at Heritage High School, a student must earn six credits the preceding school year. All credits must be earned by the first day of the beginning of the school year. Student athletes who are ineligible for the first term of the school year can gain eligibility by earning credit in three courses before the spring term.

EARLY DISMISSAL FOR WORK
Students must attend the full school day unless they are seniors enrolled in the vocational Work-Based Learning Program. You can learn about this program in the Vocational Technical Education section of this book. Students interested in the work-based learning program should check with their counselors. In certain rare occasions of hardship, seniors may be allowed to leave early for work. The following criteria must be met for an “early out”:
1. Only seniors are eligible.
2. Students must be enrolled in at least three courses for credit, and must not need the fourth or fifth for graduation.
3. A hardship must exist which warrants the early release, in the view of the principal.
4. Students must be currently employed in a job that starts before 3:00 p.m. or be taking a college course.

SPECIAL EDUCATION SERVICES
Special Educational programs are available to students who meet the criteria for an Individualized Educational Program because of disability. A team made up of parents, teachers, the psychologist, the principal, and other support staff meets to create a program based on the student's academic and vocational needs and abilities. Included in the special education program are English and math labs, a self-contained classroom that includes life skills, training and community experiences, and inclusion services which provide assistance within the regular education program. Planning the transition to work, school, or career after graduation is an important aspect of special education services at HHS, and a Vocational Rehabilitation Transition Coordinator is on staff to assist students and parents in that process. For more information about special education services, please contact the Special Education department at 984-8110 (ext. 2180).
CHANGING STUDENT SCHEDULES

The Master Schedule at Heritage High School is developed around student requests through the registration process. Classes and the student-to-teacher ratio are determined by these requests. Teachers are hired and assigned, and materials are obtained for courses based upon these student requests. The individual student schedule should be decided with great care by both parents and students. **This is a CONTRACT that must be followed** in order to provide optimal instructional opportunities for all students. Course offerings and schedules are subject to change based upon student requests and the registration process. No student can be guaranteed a particular schedule. However, every effort will be made to balance schedules and meet individual student needs. **Because changes in course requests affect class organization and teacher assignments, they will be considered only under the following circumstances.**

1. An error has been made in the scheduling of requested classes.
2. A course is needed by a 12th grade student in order to graduate.
3. A student passed a course he/she assumed would be failed or he/she failed a course.
4. A course was completed through Credit Recovery.

It is the student’s responsibility to report any of the above situations to the Counseling Center. Changes can be considered on a space-available basis.

*Students may not drop courses once the semester begins.*

ELIGIBILITY TO OBTAIN A DRIVERS’ LICENSE

Students must present a “1010 Form” to the Department of Motor Vehicles in order to take the drivers test to obtain a permit or license. This form is available from the school upon request. The State of Tennessee requires teen drivers to be attending school regularly and making progress towards graduation or this privilege can be revoked.
COURSE DESCRIPTIONS

The courses described here are potential offerings for the 2013-2014 year and may be offered for fall term, spring term, or both terms. All elective courses are subject to change and may not become part of the final schedule if there is insufficient demand.

ENGLISH

- Four units of English are required for graduation, and one should be selected each year from the normal sequence.
- No student may take two different levels of English at the same time.
- End of Course Exams are given at the ninth, tenth, and eleventh grade levels and count for 15% of the total grade for the course.
- The TCAP Writing Assessment is given to all eleventh grade students in February of each year.

At the freshman and sophomore levels, two English options are offered: Honors English and Standard English. At the junior and senior levels, there are three options: English III-Standard, Honors and Advanced Placement and English IV-Standard, Honors, and Advanced Placement. Advanced Placement and Honors English courses are weighted which increases students’ weighted GPAs. Final averages are adjusted three points in Honor’s English classes and five points in Advanced Placement (AP) classes. These adjustments help equalize student’s GPAs that are unweighted. Advanced Placement English courses and Honors level English courses are year long. Honors English and Advanced Placement English students complete a summer reading and/or vocabulary requirement. These may be obtained from either the student’s English teacher in the spring, on Planet High School (www.planeths.com), or the Counseling Center during the summer.

REQUIREMENTS FOR ENROLLMENT IN HONORS ENGLISH
NINTH, TENTH, OR ELEVENTH GRADE

A student must meet three of four requirements to be granted admission into the Honors English program. In borderline cases, teacher recommendations are weighed more heavily that other requirements. When students transfer from outside the Blount County School System, past English course grades and parent’s request are considered. Enrollment in or completion of a foreign language is encouraged in the tenth or eleventh grade to ensure students meet university and college expectations.

Ninth Grade English Honors
- Advanced score on Seventh and Eighth Grade TCAP Test in reading and language arts
- Explore score of 20-25 in reading or English
- Advanced score on the 8th Grade TCAP Writing Assessment

Tenth Grade English Honors
- Advanced score on ninth grade End of Course Test
- A minimum of a B average in Ninth Grade English Honors
- Teacher recommendation
- Enrollment in or completion of first year foreign language
Eleventh Grade English Honors

☐ Advanced score on tenth grade End of Course Test
☐ A minimum of a B average in tenth grade Honors English
☐ Teacher recommendation
☐ Enrollment in or completion of first year of foreign language

Twelfth Grade English Honors

☐ Advanced score on eleventh grade End of Course Test
☐ A minimum of a B average in eleventh grade Honors English
☐ Teacher recommendation
☐ Enrollment in or completion of first year of foreign language

REQUIREMENTS FOR ENROLLMENT IN AP English

*Students must meet at least three of the following criteria with teacher recommendation considered above the others.*

Eleventh Grade Advanced Placement English

☐ Teacher recommendation
☐ 3.0 or higher weighted GPA
☐ Successful completion of first term foreign language/enrollment in second year foreign language
☐ A minimum 90 average in sophomore Honors English
☐ A minimum score of 19 on Plan test in English/reading section
☐ A minimum score of 19 on the ACT English/reading section
☐ A score of 950 on the SAT

Twelfth Grade Advanced Placement English

☐ A minimum 88 average in Advanced Placement Eleventh Grade English
☐ Teacher recommendation
☐ A minimum score of 20 on English/Reading section of the ACT
☐ Enrollment/completion of second year foreign language
☐ A 3.2 or higher weighted GPA
☐ A score of 950 on the SAT

*Grade 9* 3081/3001 English I  2 terms/2 credits

The students will learn, practice and internalize strategies that are essential life long learning skills for reading, writing, understanding, and interpreting content specific materials. These strategies will be applied in the content areas of English, Mathematics, Science, and Social Studies. This course focuses on fundamental reading and writing skills. All strands of the state curriculum are covered with emphasis on literary analysis, paragraphing, and practice of narrative, descriptive, and expository writing, formal oral communication skills, and mastery of library tools for research. Skills necessary to pass the End of Course test are stressed.

*Grade 9* 3081/3001H Honors English I  2 terms/2 credits

This course involves more in-depth study and understanding of reading and writing skills than English 3001. Students with strong language arts skills are encouraged to enroll in the Honors courses. A major research project, including a speech and research paper, is included. A summer reading and vocabulary assignment is a requirement for the course.
Grade 10 3081/3002 English II 2 terms/2 credits  
Sophomore-level strands of the state curriculum continue with more writing, research, and literary analytical skills emphasized. The literature focuses on multicultural issues and international writers. Skills necessary to pass the End of Course test are stressed.

Grade 10 3081/3002H English II Honors 2 terms/2 credits  
Honors level objectives continue with above grade-level literary selections, an increased number of compositions and speaking assignments, and an emphasis on vocabulary development. A summer reading and vocabulary assignment is a requirement for the course. Skills necessary to pass the End of Course test are reviewed.

Grade 11 3081/3003 English III 2 terms/2 credits  
This course uses American literature as a springboard for literary analysis and formal oral communication. Students continue essay development, referencing and research skills, and oral communication skills. Students also prepare specifically for the TCAP Writing Assessment and the End of Course test.

Grade 11 3081/3003H Honors English III 2 terms/2 credits  
This course is focused on the chronological study of American literature and is designed to allow students to develop an understanding of and appreciation for how American literature has developed over the centuries. Students will be required to work at an accelerated pace and will further develop their skills in literary analysis. The students will also work to develop their writing skills as they prepare for the TCAP Writing Assessment. Skills necessary to pass the End of Course test are reviewed. A summer reading and vocabulary assignment is a requirement for the course.

Grade 11 3081/3013 AP English III Language and Composition 2 terms/2 credits  
This course is for students with exceptional reading and writing skills who are interested in further developing their writing and analysis skills through an intensive study of rhetoric. Students will study a broad range of speeches, letters, and essays for their rhetorical purpose and historical context, using those literary samples as a springboard for their own writing. Students enrolled in the course are encouraged to take the AP English Language and Composition exam in May. A summer reading and vocabulary assignment is a requirement for the course.

Grade 12 3005 English IV 1 term/1 credit  
This course encompasses a survey of British Literature and stresses critical thinking and oral expression. Students complete several papers related to literary analysis as well as documented research. This course is designed so students have the option of continuing their education.

Grade 12 3005H Honors English IV 1 term/1 credit  
This course is focused on the chronological study of British literature and is designed to allow students to develop an understanding of and appreciation for how British literature has developed over the centuries. Students will be required to work at an accelerated pace and will further develop their skills in literary analysis. A summer reading and vocabulary assignment is a requirement for the course.

Grade 12 3081/3014 AP English Literature and Composition 2 terms/2 credits  
This course focuses on critical analysis of literature as the students read and respond to novels, short fiction, poetry, and drama and is intended to provide students with a college-level experience. Students will continue to develop their skills in literary analysis as they prepare for the AP English Literature and Composition exam in May. A summer reading and vocabulary assignment is a requirement for the course.
Grade 10,11,12  3099M Classical Mythology  1 term/1 credit
This course is an elective study of a variety of Greek and Roman mythology, designed to give students a solid background in Classical Mythology and will focus on the myths, gods, and goddesses from cultural, historical, and literary perspectives. Students will read and analyze several different versions/translations of the same myth. A word study component is included, highlighting allusions that continue into modern day literature and life. The course culminates in a final project concerning mythological archetypes. Because it is included in the Humanities cluster, English skills are emphasized and reinforced.

Grade 10,11,12  3097 WM World Mythology  1 term/1 credit
World mythology is a course designed to expose students to mythologies other than the ancient Greek and Roman worlds. Students will choose four different mythological sections to be examined throughout the course of the semester. Each mythological section will receive approximately four and a half weeks study. Furthermore, through a plethora of hands-on and interactive projects, each section will include an examination into the role each mythology plays in the modern world and how it has been/continues to influence other mythologies. This course focuses on mythology from cultural, historical, and literary perspectives.

Grade 9, 10, 11,12  3012 Creative Writing  1 term/1 credit
Creative Writing focuses on developing the identity and habits of a writer through writing practice. A mixture of personal and fictional writing is included. Students can also expect to cover various writing skills including grammar and vocabulary development.

Grade 10,11  3099J ACT Preparation  1 term/1 credit
A course specifically designed to help students improve ACT scores. Whether a student has previously taken the ACT or not, this course will focus on improving study skills that will increase ACT scores. Other topics covered include the following: essay writing, resume preparation, and scholarship searches.

Grade 10,11  3081 Literacy Lab  1 term/1 credit
This class is designed to improve reading comprehension, speed, and confidence. Students work on individualized reading plans tailored to their abilities and goals. This class is intended for students who are reading below grade level and want to improve their reading ability.
MATHEMATICS

The Mathematics Department attempts to meet the needs of all students by offering a wide range of courses throughout the four years. A minimum of one math credit per year must be earned including Algebra I, Geometry, Algebra II and one class beyond Algebra II.

Grade 9  31023/31024  Algebra IA/IB  2 terms/2 credits
Algebra I is taken as a two-term class in 9th grade. Students earn an elective credit for the IA semester. The IB semester includes the state End-of-Course exam and is the semester when the math credit is awarded. Algebra I students cover quadratics, polynomials and factoring, rational equations, and functions. After successful completion of this course, students will progress to Geometry.

Grade 9  3199  Special Topics  1 terms/1 credits
This course will attempt to bridge gaps in math/algebra skills, allow for additional preparation for the Algebra I End of Course test, and assist students with study, organizational, and test taking skills. This course will be taken concurrently with Algebra I and an attempt will be made to keep a low teacher to student ratio in order to maximize the learning of each student. Students who pass this course will earn an elective credit but this course does not satisfy a math graduation requirement.

Grade 9  3102H  Honors Algebra I  1 term/1 credit
Honors Algebra I course is for students who have successfully completed Algebra I in middle school, but who would benefit from a semester at the honors level in high school before progressing to Honors Geometry. Placement is determined by ACT Explore criteria and teacher recommendation. Upon successful completion of this course, students will progress to Honors Geometry.

Grade 10,11,12  3102T  Algebra I TERM  1 term/1 credit
This course is for students who took Algebra I, Algebra A/B Standard or Algebra A/B Basic but did not earn a credit.

Grade 9  3108H  Honors Geometry  1 term/1 credit
A student with exceptional scores on the ACT Explore and the recommendation from the middle school Algebra teacher may enroll in a second-semester Honors Geometry class. Students who have successfully completed Honors Algebra I in the fall will also take Honors Geometry in the spring term. These students should plan to enroll in an Honors Algebra II class during their sophomore year.

Grade 10,11,12  3108B  Geometry Basic  1 term/1 credit
Prerequisite: Algebra A/B Basic or Algebra II Basic
This course contains the major topics of unified geometry. Geometry is one of 4 required math credits for graduation.

Grade 10,11,12  3108 Geometry Standard  1 term/1 credit
Prerequisite: Algebra A/B Standard
This course consists of topics in plane and solid geometry with emphasis on definitions, postulates, theorems, and inductive reasoning, as well as deductive proofs.

Grade 10,11,12  31033/31034  Algebra II  2 terms/2 credits
Prerequisite: Algebra I A/B Standard, Geometry. Students should have made at least an 80 average in Algebra I A/B Standard if they take this course. Students who took Basic Geometry should enroll in the year-long sequence 31033B/31034B.
This course is a continuation of Algebra I, with topics including linear equations, inequalities, polynomials and factoring, rational expressions, real numbers, quadratic equations, introduction to analytical geometry, logarithms, and complex numbers.
Grade 10 31033H/31034H Honors Algebra II 2 terms/2 credits

Prerequisite: Students should have at least an 89 average in Honors Geometry before taking this course, as well as the recommendation of the Honors Geometry teacher.

This is a fast-paced course with an in-depth study of all topics taught in regular Algebra II and with special emphasis on inequalities and additional topics. All Honors classes will require an increased amount of homework and study time outside of class.

Grade 10,11,12 3199ALG2 Algebra II Tutoring 1 terms/1 credits

This course will attempt to bridge gaps in math/algebra II skills, allow for additional preparation for the Algebra II End of Course test, and assist students with study, organizational, and test taking skills. This course will be taken concurrently with Algebra II and an attempt will be made to keep a low teacher to student ratio in order to maximize the learning of each student. Students who pass this course will earn an elective credit but this course does not satisfy a math graduation requirement.

Grade 11,12 3124 Trigonometry 1 term/1 credit

Prerequisites: Honors Geometry and Honors Algebra II or a “B” average in Geometry and Algebra II. This course begins with a review of algebra skills and proceeds into a study of trigonometric functions and their applications. It is intended for students who have completed the regular sequence of University Prep mathematics as well as for students who intend to take Pre-calculus. All Honors classes will require an increased amount of homework and study time outside of class.

Grade 10,11,12 3135 Probability and Statistics 1 term/1 credit

Prerequisites: Honors Geometry and Honors Algebra II or an 89 average in Geometry and Algebra II. The course includes the study of permutations, combinations, formulas, and statistics. Since many university majors now require the study of statistics, this course is recommended for any student planning to go to college who meets the prerequisites. It may be taken any time after completing Geometry and Algebra II. All Honors classes will require an increased amount of homework and study time outside of class.

Grade 11,12 3129/3136AP Probability and Statistics 2 terms/2 credits

Recommended prerequisites: – Trigonometry and / or Pre-Calculus, Honors Geometry and Honors Algebra I. Or, students may enroll with an 89 or above average in Geometry and Algebra II.

This course includes the study of permutations, combinations, formulas, probability distributions, graphs, regression, regression analysis, surveys, Z-scores, and the study of statistical analysis and applications in the context of given problems. AP – Statistics is a two - semester course intended for students seeking college credit in Statistics. Students will receive 2 credits for this course. The fall semester will count as an Honors credit in Statistics and the spring semester will count as an AP – credited course. Students are expected to sit for the AP exam in May.

Grade 11,12 3126H Pre-Calculus 1 term/1 credit

Prerequisite: Honors Algebra II and Honors Geometry or recommendation of current math teacher

The course includes a study of linear relations and functions, theory of equations, vectors, circular functions, polar equations, parametric equations, trigonometric functions, and analytical geometry. Taking trigonometry before this class is highly recommended. All Honors classes will require an increased amount of homework and study time outside of class.

Grade 11,12 3127 AP Calculus AB 1 term/1 credit

Prerequisite: Pre-Calculus

This course develops the concept of limits, differentiation of algebraic functions, applications of differentiation and the definite integral. Calculus is especially designed for students who plan to take college calculus. The ultimate goal is to prepare students for the AP Calculus Exam. All Honors classes will require an increased amount of homework and study time outside of class.
Grade 11,12 3128 AP Calculus BC 1 term/1 credit

*Prerequisite: AP Calculus AB*

This course further develops the concept of limits, differentiation of algebraic functions, applications of differentiation and the definite integral. It also explores the calculus of parametric functions, polar functions, infinite series, convergence, and divergence. Calculus is especially designed for students who plan to take college calculus. The ultimate goal is to prepare students for the AP Calculus Exam. All Honors classes will require an increased amount of homework and study time outside of class.

Grade 11,12 3181 Bridge Math 1 term/1 credit

*Recommended for students scoring less than 21 in math on the ACT*

Bridge math is a review of Algebra 1 and basic Algebra 2 concepts including Geometry. This course develops various concepts of math verbally, symbolically, graphically, and numerically. It also explores applications with numbers, geometrics, functions and data. This math can count as a student’s 4th math requirement for graduation.

Grade 11,12 3182 Finite Math 1 term/1 credit

*Recommended for students scoring a 21 or better in math on the ACT*

Finite Math teaches linear functions and applications, interest, annuities, amortization, systems of linear equations, including Gauss-Jordan elimination, and matrix theory. Linear programming using graphical and simplex methods is also studied. This math can count as a student’s 4th math requirement for graduation.
SCIENCE

Students entering high school are required to take Biology, either Chemistry OR Physics, and a third science elective. All honors courses must include multiple assessments exemplifying coursework (such as short answer, constructed-response prompts, performance-based tasks, open-ended questions, essays, original or creative interpretations, authentic products, portfolios, and analytical writing). There will be a minimum of five additional components as determined by your teacher. Advanced Placement (AP) courses will substantially incorporate the learning objectives and course descriptions as defined by the College Board. Below are the sequences for each graduation path. EOC designates courses with a State end of course exam.

State Recommended Secondary Science Course Sequences

Honors Sequence

<table>
<thead>
<tr>
<th>Grade</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>9th</td>
<td>Honors Biology I (3210) (EOC)</td>
</tr>
<tr>
<td>10th</td>
<td>Chemistry I (3221) OR Honors Chemistry I (3221H)</td>
</tr>
<tr>
<td>11th</td>
<td>Honors Physics (3231H)</td>
</tr>
<tr>
<td>11th &amp; 12th</td>
<td>Science Electives</td>
</tr>
</tbody>
</table>

Regular Sequence

There are three possible sequences for regular (non-Honors) students. These suggested sequences are guidelines for students planning their course sequence. Individual circumstances may allow for variations in sequence, and students will be placed based on a variety of factors. Thus, final course sequence and schedule for each student will be determined on an individual basis.

- Entrance into Biology I in the 9th grade is determined by the 8th grade Explore Test and 7th and 8th Grade TCAP scores.
- For sequence I and II, progression into 10th grade science determined by 9th grade math score and GPA.

Regular Sequence (cont)

<table>
<thead>
<tr>
<th>Grade</th>
<th>Sequence I</th>
<th>Sequence II</th>
<th>Sequence III</th>
</tr>
</thead>
<tbody>
<tr>
<td>9th</td>
<td>Biology I (3210) (EOC)</td>
<td>Biology I (3210) (EOC)</td>
<td>Environmental Science (3260)</td>
</tr>
<tr>
<td>10th</td>
<td>Chemistry I (3221)</td>
<td>Physical Science (3202)</td>
<td>Biology I (3210) (EOC)</td>
</tr>
<tr>
<td>11th</td>
<td>Physics (3231)</td>
<td>Chemistry I or Physics I</td>
<td>Physical Science or Chemistry or Physics</td>
</tr>
<tr>
<td>12th</td>
<td>Science Electives</td>
<td>Science Elective</td>
<td>Elective</td>
</tr>
</tbody>
</table>

Science Electives

(All Have Prerequisites)

- Anatomy & Physiology 3251
- AP Biology 3217H
- Honors Biology II 3216H
- Ecology 3255
- AP Physics 3233
- Chemistry II 3224H
- AP Chemistry 3225H
- Environmental Science 3260 (except for 9th course)
- Honors Physics 3231H
- Scientific Research 3295
Grade 11,12 3251 Anatomy and Physiology 1 term/1 credit

**Prerequisite: Biology I & Chemistry I**

Anatomy and Physiology is the study of the body’s structures and respective functions at the molecular/biochemical, cellular, tissue, organ, systemic, and organism levels. Students explore the body through laboratory investigations, models, diagrams, and/or comparative studies of the anatomy of other organisms. The study of anatomy and physiology prepares students for a variety of pursuits such as health care, sports, and fitness careers, as well as for taking an active part in their own health and wellness. Students will study Anatomical Orientation, Protection, Support, and Movement; Integration and Regulation; Transportation; Absorption and Excretion; Reproduction, Growth, and Development. A research project including a research paper is required.

Grade 9,10,11,12 3210 Biology I 1 term/1 credit

Biology I introduces students to the world of living things. The students explore the following: basic life processes at the molecular, cellular, systemic, organismal, and ecological levels of organization within the biosphere; interdependence and interactions within the environment including relationships, behavior, and population dynamics; cultural and historical scientific contributions of men and women; evidence that supports biological evolution; and current and emerging technologies. Students experience the content of Biology I through an inquiry approach. Using available technology, students investigate the world around them. Biology I will provide students with knowledge, prerequisite skills, and habits of mind needed for living and ethical decision making. This course provides a foundation for advance biological studies and personal career choices. This course has a State End of Course Exam.

Grade 11,12 3216H Biology II Honors 1 term/1 credit

**Prerequisite: Biology I & Chemistry I**

Biology II as a one-term course introduces students to major specialty areas of biology. The students explore the following: Comparative Anatomy and Zoology, Embryology, Genetics, Immunology, Microbiology, and Botany. Each student is required to complete a science research project.

Grade 11,12 3216AP/3217H AP Biology 2 terms/2 credits

**Prerequisite: Biology I & Chemistry I**

This is a year long course, paired with Biology II honors, that includes many college biological topics such as genetics, microbiology, vertebrate and invertebrate zoology, and human physiology, in an advanced laboratory setting. Students cover material equivalent to college freshman biology, and it prepares them for the Advanced Placement Examination.

Grade 10,11,12 32213/32214 Chemistry I Yearlong 2 terms/2 credits

**Prerequisite: Biology I & Algebra I (enrollment in Algebra II is recommended)**

Chemistry I is one of the three required science courses for University Path students. Chemistry I explores the properties of chemical substances. Students investigate the following: Atomic Structure; Matter and Energy; Interactions of Matter; and Properties of Solutions, Acids and Bases. Students explore chemistry through inquiry, hands-on laboratory investigations, individual studies and group activities. The students’ experiences in chemistry should enable them to understand the role of chemistry in their lives by investigating substances that occur in nature, and in living organisms and those that are created by humans. Their study includes both qualitative and quantitative descriptions of matter and the changes that matter undergoes. Students should practice the necessary precaution for performing safe inquiries and appreciate the risks and benefits of producing and using chemical substances. This course is a full year course.
<table>
<thead>
<tr>
<th>Grade</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Duration</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>10,11,12</td>
<td>3221</td>
<td>Chemistry I</td>
<td>1 term/1 credit</td>
<td>Biology I &amp; Algebra I (enrollment in Algebra II is recommended)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Prerequisite: Biology I &amp; Algebra I (enrollment in Algebra II is recommended)</td>
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<tr>
<td></td>
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<td></td>
<td>Honors Chemistry I consists of the same material as taught in Chemistry I Regular. In Honors Chemistry I each student will be required to complete a special science project and present that project to the other students in the class. This project is required in order to receive credit for Honors Chemistry I.</td>
</tr>
<tr>
<td>11,12</td>
<td>3224 H</td>
<td>Honors Chemistry II</td>
<td>1 term/1 credit</td>
<td>Chemistry I</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Honors Chemistry II consists of the same material as taught in Chemistry I Regular. In Honors Chemistry II each student will be required to complete a special science project and present that project to the other students in the class. This project is required in order to receive credit for Honors Chemistry II.</td>
</tr>
<tr>
<td>11,12</td>
<td>3255</td>
<td>Ecology</td>
<td>1 term/1 credit</td>
<td>Biology I</td>
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<tr>
<td></td>
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<td>Ecology is a course that enables students to develop an understanding of the natural environment and the environmental problems the world faces. Students investigate the following: Fundamental Ecological Principles; Human Population Dynamics; Natural Resources; Energy Sources and Their Use; Human Interaction with Environment; and Personal and Civic Responsibility. This advanced science course utilizes group lab and field experiences. Particular emphasis is placed on the local environments. Student’s basic understanding of ecology will serve to aid them in making ethical decisions and career choices. Because the course is for University bound students, each student will be required to do the following: write a one page paper each week; keep a journal; keep a notebook; start and maintain an ecology project; give one book report; submit one research paper; teach one outdoor activity; and attend one Sierra Club meeting, in Knoxville, during the semester.</td>
</tr>
<tr>
<td>9,10,11,12</td>
<td>3260</td>
<td>Environmental Science</td>
<td>1 term/1 credit</td>
<td>Biology I</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Environmental science enables students to develop an understanding of the natural environment and the environmental problems the world faces. Students will investigate the following: Fundamental Ecological Principles, Human Population Dynamics, Natural Resources, Energy Sources and Their Use, Human Interaction with Environment, and Personal and Civic Responsibility. Students explore the content of Environmental Science through inquiry. This science course utilizes group lab field experiences to meet these expectations. Particular emphasis is placed on local environments. Students will develop a basic understanding of ecology as a basis for making ethical decisions and career choices.</td>
</tr>
</tbody>
</table>
Grade 11,12  

3231 Physics  

1 term/1 credit

**Prerequisite: Geometry & Algebra II**  
(Concurrent enrollment in Pre-calculus recommended)

Physics deals with the relationship between matter and energy and how they interact. The following major areas will be investigated: Mechanics, Thermodynamics, Wave and Sound, Light and Optics, Electricity and Magnetism, and Atomic and Nuclear Physics. Using available materials and technology, students investigate the above areas using inquiry based learning, hands-on laboratory investigations, observation of demonstrations, individual studies, and group activities. This course affords students the opportunity to apply knowledge and prerequisite skills, habits on mind needed for problem solving and ethical decision-making about local and global scientific and technological concerns. This course provides knowledge and experiences needed for advanced studies and personal career choices.

Grade 11,12  

3231 H Honors Physics  

1 term/1 credit

**Prerequisite: Geometry & Algebra II**  
(Concurrent enrollment in Pre-calculus recommended)

Course content is the same as that in the regular physics course: Physics deals with the relationship between matter and energy and how they interact. The following major areas will be investigated: Mechanics, Thermodynamics, Wave and Sound, Light and Optics, Electricity and Magnetism, and Atomic and Nuclear Physics. Using available materials and technology, students investigate the above areas using inquiry based learning, hands-on laboratory investigations, observation of demonstrations, individual studies, and group activities. This course affords students the opportunity to apply knowledge and prerequisite skills, habits on mind needed for problem solving and ethical decision-making about local and global scientific and technological concerns. This course provides knowledge and experiences needed for advanced studies and personal career choices. In addition to the state standards, Honors Physics requires the completion of a research project and the submission of a research paper.

Grade 10,11,12  

3202 Physical Science  

1 term/1 credit

Physical Science explores the relationship between matter and energy. Students investigate the following: Force and Motion, Structure and Properties of Matter, Interactions of Matter, and Energy. Students experience the content of Physical Science through inquiry learning. Hands-on laboratory investigations, individual studies, and group activities constitute a major portion of the learning experience. Using available technology, students will investigate forces and motion, the chemical and physical properties of matter, the ways in which matter and energy interact within the natural world and the forms and properties of energy. Conservation of matter and energy is an underlying theme throughout the entire course. Physical Science provides the knowledge, prerequisite skills, and habits of mind needed for problem solving and ethical decision-making about matters of scientific and technological concern. Physical science provides a basic foundation for advanced studies in chemistry and physics.

Grade 11,12  

3295 Scientific Research  

1 term/1 credit

**Prerequisite: Biology I**

This class will focus on original research to be done in the course of the semester by both the class as a whole and the individual student. This class will focus on correct ways to conduct research as well as ethical ramifications of research practices. There will be a concluding presentation that will be made by each student about the research that they completed in front of peers and faculty. Students will also be encouraged to take part in science research competitions for scholarship money.
SOCIAL STUDIES

The Social Studies Department offers courses that encourage a basic understanding of major political and economic institutions and their historical development, as well as a basic factual knowledge of the social and cultural aspects of U.S. and world history. The department also strives to present an introduction to the content and concepts of the social sciences and to give students a grasp of major trends in the contemporary world. **Students must complete 4 credits of social studies before graduating: either World Geography or World History, U.S. History, Economics, and Government.** Students may also take several electives in the department.

**Grade 9**

**3410 World Geography** 1 term/1 credit
This course is a comprehensive overview of global geography. Students will explore various regions and countries of the world, acquiring an understanding of various political, economic, historical, and cultural issues and problems, and discovering how geography can offer solutions to those problems. Map skills are also emphasized.

**Grade 9**

**3410H Honors World Geography** 1 term/1 credit
Honors World Geography is a field of study that helps students understand how people, places and environments came to be, and how they affect each other. Students will explore our world from a geographic perspective, focusing on the political, economic, historical, and cultural elements of various regions. Special emphasis will be placed on developing writing, research and critical thinking skills.

**Grade 9,10,11,12**

**3448 AP Human Geography** 1 term/1 credit
This is a one-term course that includes many college geographic topics such as population, culture, political organization, agriculture, industrialization, and urban land use. Students cover material equivalent to college freshman human geography, and it prepares them for the AP Exam. Extensive outside reading, research assignments, and analytical writing will be required. All students are expected to take the College Board AP Exam.

**Grade 10,11,12**

**3401 World History** 1 term/1 credit
World History is for students who are interested in the development of civilization from its origins in Asia, Africa, Europe, and the Americas. The classic ages of Greece, Rome, India, and China are included, continuing on to medieval and modern times.

**Grade 10**

**3401H Honors World History** 1 term/1 credit
This course is a more intense survey of World History for students who are interested in the development of civilization from its origins in Asia, Africa, Europe, and the Americas. The classic ages of Greece, Rome, India, and China are included, continuing on to medieval and early modern times. Students will be involved in project-based activities including research, cooperative learning, oral presentations, drama, and field trips.

**Grade 10,11,12**

**3081/3441 AP European History** 2 terms/2 credits
This is a two-term course that covers European History from 1450 to the present. It will cover many college historical topics such as intellectual, cultural, political, diplomatic, social and economic history. Students cover material equivalent to college freshman Western Civilization, and it prepares them for the AP Exam. Extensive outside reading, research assignments, and analytical writing will be required. All students are expected to take the College Board AP Exam.

**Grade 10,11,12**

**3432 Sociology** 1 term/1 credit
During this course of study, students will develop an understanding and be able to apply sociological concepts and perspectives concerning human groups that include attention to socialization, culture, organization, stratification and societies.
**Grade 10,11,12**  
**3433 Psychology**  
1 term/1 credit

Psychology is a research class where human behavior is studied and discussed. The study of personality, relationships, and career opportunities in mental health fields are all included in this elective course.

**Grade 10,11,12**  
**3497 Appalachian Studies**  
1 term/1 credit

The course will provide an overview of the Appalachian Region of the United States, in particular Central and Southern Appalachia. Included in this overview are units of study exploring the history, culture, economy, political systems, and geography of the region. While in the course, students are expected to gain both an understanding and an appreciation of the Appalachian Region.

**Grade 10,11,12**  
**3404 Bible History**  
1 term/1 credit

The purpose of this course is to enable students to acquire an understanding and appreciation of the Bible’s major ideas, historical/geographical contexts, and literary forms. The course will include the study of the Bible in its historical, sociological, and cultural contexts, and its impact on later cultures, societies, and religions.

**Grade 11**  
**3405 U.S. History**  
1 term/1 credit

A survey course designed to explore the history of the United States from Reconstruction to the present. U.S. history stresses reading and writing skills through the study of the history of our country.

**Grade 11**  
**3405H Honors U.S. History**  
1 term/1 credit

This course is a more intense survey of U.S. history. Students are expected to possess exceptional skills in reading comprehension, critical thinking, and writing ability. In addition to improving these skills, the honors course encourages development of skills in problem solving, collecting factual information, oral presentations, and general knowledge of the world community.

**Grade 11**  
**3081/3440 AP U.S. History**  
2 term/2 credit

U.S. History AP is a college-level course which traces America's past from pre-discovery to post-World War II in an in-depth manner. Students earn high school credit and may earn college credit by taking the Advanced Placement Examination. Discussion/essay format testing is used as well as extensive outside reading, historical and analytical essays, research assignments and debate style discussions. Critical and analytic thinking are an imperative aspect of the course. Students are expected to take the College Board AP.

**Grade 11,12**  
**3435 Contemporary Issues**  
1 term/1 credit

This course is an elective open primarily to juniors and seniors. Students will discuss, research, and debate controversial current issues. There will be a focus on daily news stories affecting world, national, state, and local levels.

**NOTE:** For students to be considered for a “12th grade academic letter” in Social Studies, they must take both Economics and U.S. Government during the senior year.

**Grade 12**  
**3431 Economics**  
1 term/1 credit

This required course is a study of the market economy and the free enterprise system with emphasis on the role of government and the individual in the system. Economic policy and a comparison of the American system to other economic systems are included.

**Grade 12**  
**3431H Honors Economics**  
1 term/1 credit

This course investigates in greater depth the U.S. market economy. Many topics will be covered, including the job market, investing, monopolies, oligopolies, college expenses, and foreign trade.
Grade 12 3081 Economics II 1 term/1 credit
This is a spring semester course for honors students who are interested in a more in-depth study of the functions and procedures of economic systems. The course will focus on applying information learned in the Economics class to current issues. Selected economic topics will be examined. Students will compete in a business competition simulation.

Grade 12 3407 U.S. Government 1 term/1 credit
This course includes a study of local, state, and federal government. Emphasis is placed on how government affects our daily lives. Students will be encouraged to become active participants in the democratic process.

Grade 12 3407H Honors U.S. Government 1 term/1 credit
This course includes an intensive study of local, state, and federal government. Emphasis is placed on how government affects our daily lives. Students will be encouraged to become active participants in the democratic process. Students are expected to possess exceptional skills in reading comprehension, critical thinking, and writing ability. In addition to improving these skills, the honors course encourages development of skills in problem solving, collecting factual information, oral presentations, and general knowledge of the world community.

Grade 12 3407EH Honors U.S. Government – Early Bird 1 term/1 credit
This course is the same as the Honors U.S. Government course except it is offered from 7:00-8:10 AM.

Grade 12 3081 U.S. Government II 1 term/1 credit
This is a spring semester course for honors students who are interested in a more in-depth study of the functions and procedures of the U.S. Government. The course will focus on applying information learned in the U.S. Government class to current political events. There will also be opportunities for students to meet with local and state political figures who will visit the class.

Grade 10,11,12 3767 Personal Finance ½ Credit .5 Term/.5 credit
Personal Finance is a course designed to inform students how individual choices directly influence occupational goals and future earnings potential. Real world topics covered will include income, money management, spending and credit, as well as saving and investing.

FOREIGN LANGUAGE

Graduation Requirements and College Admittance:
All students are required to have two credits of one foreign language (either Spanish I and Spanish II or French I and French II) to graduate. Some colleges require three credits of one foreign language for admittance. Once admitted to a college or university, most students will be tested for recall of their foreign language. Those students who are unable to demonstrate mastery of their foreign language may be required to take remedial foreign language classes at university prices for non-college credit.

Course Requirements for Foreign Language:
The ability to speak and write are essential in learning a language; listening, pronunciation, spelling, reading, grammar, and memorization are key elements of success in foreign language courses. Mature study skills are vital.

Levels I and II introduce students to grammar and vocabulary needed for basic communication. Because Level II builds on the skills learned in Level I, students are recommended to take Levels I and II of foreign language in consecutive terms.
Levels III and IV:
Advanced levels allow students to extend their foreign language skills beyond basic communication, provide students with an opportunity to earn honors credit, and review second language skills in preparation for college placement exams. **Students who are not able to demonstrate Level II ability on college placement exams are required to take remedial foreign language in college for non-college credit.**

Native Speakers:
A Foreign Language is not a graduation requirement for native speakers of languages other than English. These students are welcome to enroll in Foreign Language classes as appropriate, for elective credit.

Grade 11,12 3021 Spanish I 1 term/1 credit
This course is an introduction to elementary Spanish vocabulary and fundamental grammar concepts necessary for understanding, speaking, and writing Spanish. There is also a strong emphasis placed on Hispanic cultural awareness. Students are expected to participate in classroom activities in order to begin mastering communication skills. Students will be expected to memorize in order to build skills in this area.

Grade 11,12 3022 Spanish II 1 term/1 credit
Students continue to master skills such as listening, speaking, reading, and writing in order to communicate in typical cultural situations in a Spanish-speaking community. There is a continued emphasis on cultural awareness in Spanish-speaking countries. Students will be required to do projects, written assignments, and oral presentations.

Grade 11,12 3027 Spanish III/IV 1 term/1 credit
**Prerequisite: Spanish II “85” or better average is required.**
Students continue to increase their vocabulary and structural knowledge in order to converse in Spanish. All skills (listening, speaking, reading, and writing) are emphasized at this level with the greatest emphasis on speaking. Students will study history, literature, and the arts of Spanish-speaking countries.

Grade 9,10,11,12 3041 French I 1 term/1 credit
Students of this course will develop skills in listening, speaking, reading, and writing of the French language. They will gain an understanding of cultural concepts and basic grammatical structures. Student learning will take place through songs, poems, dialogues, skits, games, and various "hands-on" activities. Emphasis in the first level is placed on listening and speaking skills.

Grade 10,11,12 3042 French II 1 term/1 credit
Students continue to master skills introduced in French I. Student learning will continue using songs, poems, guided conversations and creative projects. Greater use of the target language is incorporated. Emphasis on speaking continues, as greater use of composition is added.

Grade 10,11,12 3043 French III 1 term/1 credit
**Prerequisite: French II “85” or above average is required.**
Students continue to master skills developed in previous levels. They will explore literature in greater depth as they become more adept with grammar and sentence structure. Students will study the arts, literature and history of Francophone countries.
WELLNESS/PHYSICAL EDUCATION/ATHLETICS

1.5 credits of physical education (1 credit in wellness and a half credit in physical activity) is required for graduation. PLEASE READ THE FOLLOWING:

- Two credits of ROTC may substitute for the wellness requirement.
- No student may take a physical education elective until he/she has passed wellness.
- No student may be enrolled in more than one athletics/physical education elective at a time.
- Only one non-athletics physical education elective may be taken per school year.

Grade 9,10,11,12

3303 Lifetime Wellness 1 term/1 credit
This course introduces students to the lifelong process of positive lifestyle management that seeks to integrate the emotional, social, intellectual, and physical dimensions of self for a longer, more productive and higher quality of life. Students successfully completing this course will be better prepared to assume responsibilities for personal lifetime wellness.

Grade 10

3301N Personal Fitness ½ Credit .5 term /.5 credit
10th grade students, this class will be paired with ½ credit of Personal Finance. Students will improve fitness by learning to participate in a variety of individual exercise activities including power walking, aerobics, stretching/relaxation, Tae-Bo, Tai Chi and strength and conditioning training.

THE FOLLOWING COURSES ARE PHYSICAL EDUCATION ELECTIVES:

Grade 10,11,12

3301 Strength and Conditioning 1 term/1 credit
Prerequisite: Wellness
Students will improve fitness through intense conditioning activities, plyometrics, agility activities and free-weight strength training.

Grade 10,11,12

3301T Team Sports 1 term/1 credit
Prerequisite: Wellness
Students will learn concepts and principles of the sports skills through participation in basketball, softball, volleyball, floor hockey, soccer and flag football.

PEER TEACHING AND SERVICE LEARNING

Grade 11,12

9395SL Service Learning 1 term/1 credit
Prerequisite: Students must have a GPA of at least 3.00 complete an application for approval by May 1st.
Students in this course will have an opportunity to learn about service by accumulating 30 hours of community service through either afterschool service or community based service. Students will complete a personal growth paper.

Grade 11,12

3099M Peer Teaching 1 term/1 credit
Students will choose a teacher to peer teach for, and go into that classroom every day to tutor students and help the teacher. Students are placed by teacher approval only.
STEM EDUCATION: HHS STEM STUDIOS

We are proud to offer integrated, STEM education to students at Heritage High School. Our STEM Initiative has resulted in the assembly of several STEM Studios. We use the term studio to describe the unique “school within a school” model that we use at Heritage to offer STEM education.

Students have the ability to participate in various STEM studios where each studio has a unique curricular focus. Currently, we have two studios: Engineering and Health Occupations. However, the STEM Initiative is expanding and adding studios as the program grows to meet the needs of our students. Students within each studio have the ability to pursue classes that use integrated, STEM based instruction particular to their area of interest. As students pursue their coursework, they will have the chance to candidate for official acceptance into the studio of their choice.

Once accepted, students advance through the curriculum in their STEM studio with the goal of completing the requirements for a STEM Endorsement on their diploma. On their journey toward endorsement, students will have the opportunity to conduct original research, participate in mentoring programs, connect with industry and business leaders, collaborate with fellow students, participate in competitive STEM related programs, and engage with the professional community in their respective fields.

Our goal is to give an opportunity to any student that has the desire to pursue a STEM related education. There are opportunities for both “thinkers” and “doers” in our STEM studios. Each studio offers two distinct areas of focus. Students can choose the curricular path that makes the most sense for their particular skills and abilities.

ENGINEERING STUDIO CURRICULUM

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<th>Pre-Engineering Drafting and Design</th>
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# Advanced Pre-Engineering

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# HEALTH OCCUPATIONS STUDIO CURRICULUM

## Advanced Health Occupations

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# Health and Life Sciences

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## Paths of Study

**STEM**

- **Biotechnology and Forensic Science Research and Development**
  - 9th grade
    - Sem 1
    - Health Science
  - 10th grade
    - Sem 1
    - Elective*
  - 11th grade
    - Sem 1
    - Diagnostics*
  - 12th grade
    - Sem 1
    - Forensic Science
      - Clinical Internship (CAPSTONE) *

- **Health Informatics**
  - 9th grade
    - Sem 1
    - Health Science
  - 10th grade
    - Sem 1
    - Elective*
  - 11th grade
    - Sem 1
    - Diagnostics
  - 12th grade
    - Sem 1
    - Medical Terminology (Dual Credit)
      - Clinical Internship (CAPSTONE) *

- **Therapeutic Services**
  - 9th grade
    - Sem 1
    - Health Science
  - 10th grade
    - Sem 1
    - Elective*
  - 11th grade
    - Sem 1
    - Elective*
  - 12th grade
    - Sem 1
    - Medical Therapeutics
      - Nursing Education /Clinical Internship (CAPSTONE) *2 credits

- **Therapeutic Emergency Services**
  - 9th grade
    - Sem 1
    - Health Science
  - 10th grade
    - Sem 1
    - Elective*
  - 11th grade
    - Sem 1
    - Elective*
  - 12th grade
    - Sem 1
    - Medical Therapeutics
      - Emergency Medical Services (Dual Credit)
        /Clinical Internship (CAPSTONE) *2 credits

## Notes

**Electives**: To complete the STEM requirement, the student must complete SIX credits in the Health Science Cluster. The following classes may be used as electives if student has already taken Health Science: Diagnostic Medicine, Forensic Science, Medical Terminology (Dual Credit), Medical Therapeutics. If schedule and class space permits, the student may be able to complete another clinical CAPSTONE class.

**CAPSTONES**: Admittance into the CAPSTONE classes it based on an application process ONLY. Students must prove academic and attendance integrity as well as good work ethic.
FINE ARTS: VISUAL ARTS, MUSIC, AND DRAMA

Whenever possible, artistic learning should be organized around meaningful projects, which are carried out over a significant period of time, and allow ample opportunity for feedback, discussion, and reflection.

Howard Gardner, Multiple Intelligences, 1983

The Fine Arts Department at Heritage High School offers courses, which train students to value the arts in their lives, both as consumers and as creative participants. Through their involvement in the Fine Arts program, students develop skills in team work, problem solving, communication, and critical thinking. Students are required to have one (1) Fine Arts credit. A student who chooses Fine Arts as their Program of Study should take at least four (4) credits of Fine Arts classes.

Grade 9,10,11,12

3501 Visual Art I: Fundamentals 1 term/1 credit

*Requirement: Fee and or fundraising*

Art I is an introductory survey course for students with little or no previous visual art experience who desire a fine arts credit. The curriculum studied is composed of both academic and studio experiences. Topics integrate art history that covers Non-Western Art through the New Kingdom of the Egyptian culture. The studio experiences emphasize design elements and principles through two-dimensional (drawing and painting) and three-dimensional (sculpture and ceramic art) art making. The study of art criticism and aesthetics are an integral part of the curriculum.

Grade 10,11,12

3502 Advanced Visual Art II 1 term/1 credit

*Prerequisite: All Advanced Art courses require the teacher’s recommendation.*

*Requirement: Fee and or fundraising*

Art II is an elective course that continues the same study of principles learned in Art I, but with a stronger studio component. The studio emphasis is individualized and more sophisticated by refining skills and implementing design principles in both two-dimensional and three-dimensional art making. Students are encouraged to participate in regional exhibits and competitions. Topics integrate art history that covers Classical Greek and Roman art through the 19th century. Digital imaging, design, and composition are introduced. The continued study of art criticism and aesthetics are an integral part of the curriculum.

Grade 11,12

3543 Advanced Visual Art III 1 term/1 credit

*Prerequisite: All Advanced Art courses require the teacher’s recommendation.*

*Requirement: Fee and or fundraising*

Art III is an advanced art course for students highly motivated and focused on the formulation of a personal interpretive style. The concept of big ideas assumes primary importance in art making because subject matter can serve as the context for exploring the big ideas. Topics are conceptual in nature to encourage in-depth exploration and experimentation in both two-dimensional and three-dimensional art making. Topics integrate art history that is related to the field of study such as the history of portraiture, photography, and bas relief. Students are given choices of media and are expected to refine life-drawing skills and to work independently. Students are encouraged to participate in regional exhibits and competitions. Digital imaging remains an integral portion of this course.
Grade 12  
3543 Advanced Visual Art IV  
1 term/1 credit

Prerequisite: All Advanced Art courses require the teacher’s recommendation.

Requirement: Fee and or fundraising

Art IV is for the serious art students who are focused on their advancement as a young artist through seeking creative solutions to academic and artistic challenges. This course implements greater emphasis on individual style and the development of technique and craftsmanship to explore the arts as a mean of self expression. The concept of big ideas continues to assume a primary importance in art making because subject matter can serve as the context for exploring the big ideas. Students have choice of media and are expected to continue the refinement of life-drawing skills and to work independently. Topics integrate art history that is related to the field of study with the emphasis on Modernism, Post-Modernism as well as current trends in the art world. Students are encouraged to participate in regional exhibits and competitions. Digital imaging remains an integral portion of this course.

Grade 9,10,11,12  
3530M Marching Band  
1 term/1 credit

The band is designed to encourage development of musical skills, acquainting students with different musical styles and enriching their aesthetic experiences. The students will be expected to march during most of the fall semester and will perform a concert toward the end of the semester. Marching band allows the students to develop positive social relationships and attitudes of cooperation, group loyalty, and group discipline.

Grade 9,10,11,12  
3530 C Concert Band  
1 term/1 credit

The concert band is designed to encourage development of musical skills, acquainting students with different musical styles and enriching their aesthetic experiences. Concert band also allows the students to develop positive social relationships and attitudes of cooperation, group loyalty, and group discipline. Concert band will perform concerts during the spring semester.

Grade 10,11,12  
3530 E Wind Ensemble Honors  
1 term/1 credit

The band is designed to encourage development of musical skills, acquainting students with different musical styles and enriching their aesthetic experiences. Band also allows the students to develop positive social relationships and attitudes of cooperation, group loyalty, and group discipline. Marching Band occurs in the fall term. Concert Band and Wind Ensemble is in the spring.

Grade 9,10,11,12  
3530 P Percussion Ensemble  
1 term/1 credit

Prerequisite: Students must have studied percussion and participated in band at the middle school level.

The percussion ensemble is designed for students who have studied percussion at the middle school level. The objectives are to study more advanced techniques in the percussion family with respect to mallets, snare, timpani, and auxiliary instruments. Students will study literature from method books, percussion ensemble compositions, and concert band compositions. Students will be expected to perform at spring semester concerts and participate in concert festival. Percussion students must take this class instead of Wind Ensemble and Concert Band.

Grade 9,10,11,12  
3505 General Music  
1 term/1 credit

This course includes a wide variety of topics including musical styles, the history of music, musical instruments, voices, music of different cultures, etc…designed to develop the student’s appreciation of music. The students will be involved in writing assignments, listening activities, and video presentations which will help them understand and respect different genres of music.

Grade 9,10,11,12  
3517 Music History  
1 term/1 credit

Students will take a survey class that covers all of the stylistic periods of music including Medieval, Renaissance, Baroque, Classical and 20th Century/Contemporary and the most famous composers of each. We will also explore world events that coincide with these musical time periods to gain an understanding of how music was influenced by culture.
Grade 9,10,11,12  
3514 Music Theory 1 term/1 credit

Prerequisite: Students must have a keen interest in music, singing, and/or playing an instrument.

Beginning with standard notational procedures, musical terms, signs, and symbols, this course takes the student through the basics of how music works. Also included is the study of key signatures, scale and chord construction and analysis, and basic compositional techniques. Music Theory is recommended for students interested in pursuing music as a field of study or employment.

Grade 9,10,11,12  
3531S Solo Class 1 term/1 credit

Like private voice lessons, this course is for all levels of ability in all styles of solo singing. The students will gain an understanding of proper vocal technique while pursuing their personal style of solo singing. We will learn and sing as a class as well as individually. There will be a recital-style performance at the end of the semester.

Grade 9,10,11,12  
3531B Women’s Chorale (first semester only) 1 term/1 credit

Grade 9,10,11,12  
3531M Men’s Chorale (first semester only) 1 term/1 credit

These two beginning groups are open to all students, although they are geared toward freshmen and beginning singers. No audition is required, but it is important that each member has a strong interest in music and enjoys singing. In addition to learning different styles of music, a strong emphasis is placed on learning the different elements of music and how to read music from a printed score. Often, students who excel in these groups choose to progress to Concert Choir. Materials used require that students participate in a fundraising activity.

Grade 9,10,11,12  
3531F Concert Choir (2nd semester only) 1 term/1 credit

Prerequisite: One or more credits in a choral music course.

Concert Choir is a non-audition, intermediate-level mixed choir open to any student who has had at least one semester of a choral music class. Although no audition is required, each student should consult with Mr. Clift for approval. It is also important that each member show a strong interest in singing and a willingness to work hard. In addition to learning and performing different styles of music, each student will continue development of vocal and sight-reading skills. Students who excel in this group often choose to audition for Heritage Singers. Materials used require that students participate in a fundraising activity.

Grade 10,11,12  
3531S Heritage Singers I and II Honors 1 term/1 credit

Prerequisite: This class is by audition only. Students must have had at least one semester of choral music experience, must be able to participate in Heritage Singers for BOTH semesters, and must be in good academic standing in order to audition. If any student fails more than one class in either semester, he/she may not audition for the following year. Other requirements, such as letter of recommendation and essay may be obtained during the spring semester in an audition packet given by Mr. Clift.

Heritage Singers is our most advanced ensemble with 24-28 select voices. Singers are selected by audition during the spring for the following year. This group performs and competes in a variety of settings throughout the year and sings a wide selection of quality choral literature from all periods of music. All students are required to attend ALL performances for a grade. Members MUST be schedule conscientious and be able to coordinate work schedules and family activities around performances. Members will be required to purchase either a tuxedo or a dress through the choral department. Members are required to participate in various fundraising activities throughout the year.

Grade 9,10,11,12  
3520 Theatre Arts I 1 term/1 credit

Open to all students who are curious about theatre, this text-based course includes a basic introduction to theatre, stagecraft, play production, and theatre history. Students will be required to perform during an evening production and will develop basic acting and speaking techniques. A positive attitude, responsible behavior, participation, and effort are necessary for successful completion of Theatre Arts I. Materials used require that students participate in a fundraising activity.
Grade 9,10,11,12

3521  Theatre Arts II  1 term/1 credit

*Prerequisite: Theatre Arts I*

This course offers advanced instruction in all phases of theatre production. Students may choose to act and/or work on a backstage crew. A one-act play will be prepared and presented. A Reader’s Theatre monologue will be written and performed, as well. Therefore, two evenings are required outside of classroom time. Parent volunteers are needed and their participation is welcomed. **Materials used require that students participate in a fundraising activity.**

--

Grade 10,11,12

3522  Theatre Arts III Honors  1 term/1 credit

*Prerequisite: Theatre Arts I & II*

This course offers advanced instruction in all phases of theatre production and performance, and focus on acting. All students may choose to act in a play. Students will perform during 1st block two mornings, and will also perform in at least two evening performances. A Reader’s Theatre monologue will also be written and an evening performance will be presented. Additionally, students will create a short film and will present on a Thursday evening, and students will be required to participate in a forensic competition on a Saturday, and will also be required to present to a forensic competition on a Saturday. Students are also required to remain after school every Thursday until 6:00 in order to have enough rehearsal time. Therefore, students will be required to participate every Thursday evening during the semester as well as on at least one Saturday and at least one Sunday in addition to class time. Parent volunteers are needed, and their participation is welcome. Beyond performance requirements, students will design and write a research project/report, prepare and perform a storytelling selection for middle school students, and will also jointly write the class play to be performed. This challenging course requires motivation and maturity. **Materials used require that students participate in a fundraising activity.**
AIR FORCE JUNIOR ROTC

The mission of AFJROTC is to “Develop citizens of character, dedicated to serving their nation and community”. The goal is to instill in high school cadets the values of citizenship, service to the United States, personal responsibility, and a sense of accomplishment. To enroll in these courses, students must be United States citizens and capable of participating in the complete AFJROTC curriculum, including drill and ceremonies and physical fitness (medical permission form required).

AFJROTC is a Program of Study. Credit requirements can be met by taking the first three courses listed below.

- Two credits of JROTC may be substituted for the Lifetime Wellness physical education requirement.
- Three credits of JROTC may substitute for the additional physical education requirement and for the personal finance credit.

Grade 9,10,11,12
3331  Aerospace Science I
1 term/1 credit
Aerospace Science studies begin with the study the Aviation History, providing a basic knowledge of the origins and development of today’s aerospace world. Leadership Education I include studies in attitude and discipline as they apply to life situations. Students receive training in time management and study skills, drug and alcohol abuse, first aid, and drill and ceremonies. Studies in the development of a life-long wellness program are included to integrate the emotional, social, intellectual, and physical dimensions of self for a longer, more productive and higher quality of life. Uniforms are provided free of charge and students must wear them one day each week. **Failure to wear the uniform may result in a failing grade for the course.**

Grade 10,11,12
3332  Aerospace Science II
1 term/1 credit
Prerequisite: Aerospace I and approval from the department.
The course provides an introduction to the aerospace environment, the effects of flight on the human body; and basic aeronautics and navigation. The four units instructed begin with, The Aerospace Environment (weather elements/forecasting and aviation weather), Human Requirements of Flight (physiology of flight, protective clothing/equipment), Principles of Aircraft Flight (scientific principles of flight power) and Principles of Navigation (basic navigation elements, maps, navigation instruments/navigation aids). Leadership Education 2 is a guide to learning the fundamentals of an exciting arena called leadership. The four areas taught are Effective Communications Skills (written reports and public speaking), Understanding Individual Behavior, Understanding Group Behavior, and Basic Leadership concepts. Cadets hold positions of greater responsibility as they plan and carry out unit projects.

Grade 11,12
3333  Aerospace Science III
1 term/1 credit
Prerequisite: Aerospace II and approval from the department.
This third-level course is a science course which examines our solar system through an introduction to Exploring Space. We begin our studies with the History of Astronomy, the Earth, the Moon, Survey of the Solar System, Terrestrial planets and the Outer Planets. The Leadership Education 3 component emphasizes life after high school, college preparation, financial management, resumes and interviewing techniques.

Grade 12
3334  Aerospace Science IV
1 term/1 credit
Prerequisite: Aerospace III and approval from the department.
These cadets manage the entire cadet corps by practicing communication, decision-making, personal interaction, managerial, and organizational skills they have learned.
**SPECIAL EDUCATION**

*All classes require IEP team decision*

### English

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<th>Grade 9</th>
<th>30015 Resource English I</th>
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<tr>
<td>This course reinforces fundamental reading and writing skills. All strands of the state curriculum are covered with emphasis on literary analysis, paragraphing, and practice of narrative, descriptive, and expository writing. (English I End of Course Exam counts 15 percent of the final grade)</td>
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### Grade 10

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<th>30025 Resource English II</th>
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<td>Sophomore-level strands of the state curriculum continue with more writing, research (use of library tools), and literary analytical skills emphasized. The literature’s focus is set to meet student reading levels. (English II End of Course Exam counts 15 percent of the final grade)</td>
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### Grade 11

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<th>30035 Resource English III</th>
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<td>Junior-level strands of the state curriculum continue with an emphasis in further developing writing skills. The literature’s focus is set to meet student reading levels.</td>
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### Grade 12

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<th>30055 Resource English IV</th>
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<tr>
<td>This course is designed to assist students in meeting their Transition Plan Post-secondary goals for further education and/or ready-to-work skills. Emphasis is on oral and written expression skills and maintaining reading levels.</td>
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### Academic Skills

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<th>Grade 9,10,11,12</th>
<th>9408 Academic Skills</th>
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<td>Individualized instruction at the student’s academic level with an emphasis on behavior and social skills.</td>
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### Life Skills English

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<th>Grade 9,10,11,12</th>
<th>9433 LSE CP Life Skills English</th>
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<tr>
<td>The Life Skills English course is designed to improve student skills in the areas of listening, speaking, writing, literature and language appropriate for independent living. These skills include exploring a variety of communication modes, simple forms of writing, and functional reading skills.</td>
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### Math

#### Algebra IA

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<th>Grade 9</th>
<th>31025 Resource Algebra IA</th>
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<tr>
<td>This is the first course in the Algebra I sequence. This course covers simplifying and evaluating equations, operations with polynomials, and graphing linear equations and inequalities. This course is year long and designed for students who struggle with math and need more time to master concepts.</td>
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#### Algebra IB

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<th>Grade 10</th>
<th>31026 Resource Algebra IB</th>
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<td>This is the second course in the Algebra I sequence. It covers factoring of polynomials, solving rational equations, systems of equations, and more graphing of linear and quadratic equations. This course is year long and designed for students who struggle with math and need more time to master concepts. (Algebra I End of Course Exam counts 15 percent of student’s final grade)</td>
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#### Geometry A

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<th>31085 Resource Geometry A</th>
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<tr>
<td>This is the first course in the Geometry sequence. Students cover inductive reasoning skills and use definitions and postulates to solve problems involving lines, angles, triangles, and quadrilaterals. This is a semester long course designed for students who struggle with math and need more time to master concepts.</td>
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Grade 11  
31085  Resource Geometry B  
1 term/1 credit
This is the second course in the Geometry sequence. Students cover triangle inequalities, simple proofs, proportions, polygons, area, volume, and circles. This is a semester long course designed for students who struggle with math and need more time to master concepts.

Grade 12  
31815  Resource 4th Year Math  
1 term/1 credit
This course is for students who have completed the Algebra and Geometry sequence and require additional math credits or a fourth year to meet graduation requirements. A review of Algebra skills and the first half of Algebra II is introduced; it may also be designed per the IEP to meet Transition Post-secondary goals for ready-to-work math skills.

Grade 9,10,11,12  
9433LSM  CP Life Skills Math  
1 term/1 credit
The Life Skills Math course is designed to provide students with the developmentally appropriate math skills necessary to explore and solve problems in everyday life. Students will develop skills in basic math operations and learn the use of numbers for a variety of scenarios. Technology is utilized to provide support and build skills.

9433LSI/9433LSII  9433LSI/9433LSII  Life Skills I and II  
1 term/1 credit
The Life Skills courses are designed to develop a repertoire of developmentally appropriate social and leisure activities the student can engage in both individually and as a group. Instruction is meaningful, functional, age appropriate and integrated in various community settings (i.e. library, grocery store, restaurant). Activities use naturally occurring materials and situations, and are designed to help students acquire and generalize skills. Students develop and increase social skills to function to the greatest extent possible.

Grade 12  
9433T  Vocational (Transition)  
1 term/1 credit
The Vocational course is designed to prepare students to function at the greatest extent possible in post-secondary life. Students will develop social skills and behavioral expectations, including personal responsibility, communication skills, conflict resolution, personal safety and daily living skills.

Grade 9  
CP Science  
1 term/1 credit
The CP Science course is designed to provide students with the developmentally appropriate understanding of biodiversity relevant to everyday life. Students will investigate interactions between living things and their environment and explore the adaptation characteristics that promote survival.
Heritage High School boasts a comprehensive curriculum including a wide variety of career and technical classes designed to assist students in acquiring specific technical skills and developing work habits for the current job market. Most of the courses are organized as two and three-year programs. First year students learn basic theory and skills, and second and third-year students acquire advanced skills in shop and lab settings that closely imitate actual work sites. Advanced students may also use the Work-Based Learning program to gain valuable experience in an actual job site. Upon successful completion of the career and technical programs, students will be able to gain employment with job entry-level skills, enter a post-secondary training or apprenticeship program, or enter a college or university for additional training.

AGRICULTURAL FOOD & NATURAL RESOURCES

Grade 9,10

5947  Principles of Agriculture Science  1 term/1 credit
Principles of Agricultural Sciences is designed to develop the basic theories and principles involved in animal science, agribusiness, agricultural mechanics, and natural resource management. The standards prepare students to choose among agricultural careers for the 21st century.

Grade 10,11,12

5954  Greenhouse Management  1 term/1 credit
Prerequisite: Principles of Agricultural Science
This course is designed to prepare a student to manage a greenhouse operation. Students in this class will learn to produce various ornamental crops and food crops. An understanding of structures, crop selection, and growing systems will be explored. As populations continue to expand, the importance of food production in a climate controlled environment increases. Today’s agriculture students are preparing to meet the needs of a growing world.

Grade 10,11,12

5951  Landscaping and Turf Management  1 term/1 credit
Prerequisite: Principles of Agricultural Science
Landscaping and Turf Management includes the standards to prepare students for creating beautiful environments for homes and businesses. This study includes site analysis and preparation, landscape drawing, plant selection and installation. Maintenance of healthy attractive landscapes and turf areas will be emphasized. With the increase of urban sprawl these career opportunities are increasing daily. Plant science and leadership skills taught in this class will prepare students to meet the demands of this exciting industry.

Grade 10,11,12

5958  Small Animal Care  1 term/1 credit
Prerequisite: Principles of Agricultural Science
Small Animal Care contains objectives to prepare students for careers in managing and caring for specialty and companion animals. As our population raises more specialty and companion animals for production purposes and personal value, careers that work with these animals in a safe environment will continue to expand.

Grade 10,11,12

5955  Horse Science  1 term/1 credit
Prerequisite: Principles of Agricultural Science
Horse Science is designed to develop basic understanding of equine handling, health, maintenance, reproduction, selection and management. Horse populations in the state have continued to grow and their economic impact has increased with this growth. This course is designed to help students prepare for the social and economic impact equine science will have in the 21st century.
Grade 11,12  5961 Veterinary Science  1 term/1 credit

Prerequisites: Principles of Agricultural Science, Small Animal Care, and Horse Science

Veterinary Science challenges students to use advanced technologies and medical treatments to maintain the health of animals. The animal health industry continues to grow in importance and prominence as more people purchase animals for pleasure and sustenance.

Grade 10,11,12  5962 Livestock Management  1 term/1 credit

Prerequisite: Principles of Agricultural Science

Livestock Management provides knowledge and skills needed for successful work (entry level to management) in the livestock industry. The course will complement a student’s supervised agricultural experience program by providing management tools.

Grade 11,12  5967 Animal Biotechnology  1 term/1 credit

Prerequisite: Principles of Agricultural Science and Livestock Management

This course is to prepare students with interests in higher-level, science-based animal agriculture. The course includes biological science standards. Students will study rigorous standards related to taxonomy, anatomy and physiology, body systems, reproduction, hormonal and immune systems, nutrition, heredity and genetics (molecular biology), health, agrimedicine, well-being, DNA and biotechnology, and emerging technologies associated with companion and production animals.

Grade 10,11  5944 Agricultural Mechanics and Maintenance  1 term/1 credit

Prerequisite: Principles of Agricultural Science

Agricultural Mechanics includes standards to prepare students for operational procedures for a shop or a home environment. Students learn basic skills in areas, including welding, electricity, land measurement and plumbing. As students enter the 21st century, they need to have skills that can be used in a rural or an urban environment.

Grade 11,12  5945 Agricultural Power and Equipment  1 term/1 credit

Prerequisite: Principles of Agricultural Science

Agricultural Power and Equipment includes basic information and laboratory activities on small engines, tractors and agricultural equipment maintenance, repair and overhaul. The standards address competencies for electrical motors, hydraulic systems and fuel-powered engines.

Grade 10,11,12  5956 Leadership and Communications  1 term/1 credit

Prerequisite: Principles of Agricultural Science

Leadership and Communications analyzes attributes and capabilities of those in leadership positions, to assist students in the development of their communication skills and interpersonal relationships and other related skills. Most jobs are lost or gained because of the leadership and communication ability a person has. As we enter the 21st century and a global market place, these skills will become more important as an asset for career success.

Grade 10,11,12  5946 Agricultural Marketing and Sales  1 term/1 credit

Prerequisite: Principles of Agricultural Science

The course introduces students to the different types of agricultural businesses found in local communities and the skills businesses are looking for in employees. Students will enhance skills and techniques utilized in agricultural marketing and sales agreements to meet the needs of consumers and employers.
BUSINESS TECHNOLOGY

Students graduating from Blount County High Schools must have a minimum of one computer credit. It is expected that 8th grade students have learned touch typing keyboarding skills and can type accurately 25 net words per minute on a proficiency test.

Grade 9,10

3721 Computer Applications 1 term/1 credit
Course content is designed to develop computer technology skills. Students will use a variety of computer software/hardware tools and features of an electronic information network. Students will explore the historical, social, and ethical issues of using computer technology. The students will develop skills that will assist them with efficient production, accurate production analysis, management of information, and design/presentation of a multimedia project.

Grade 10,11,12

5896 Desktop Publishing 1 term/1 credit
Prerequisite: Computer Applications
Students use hands-on approach to develop proficiency in document preparation. Students apply keying, formatting, typography, and layout and design skills in developing electronic publishing documents. Students develop skills in electronic publishing design, layout, composition, and photojournalism. Laboratory facilities and experiences simulate those found in the graphic communications industry.

Grade 10,11,12

5910 Accounting I 1 term/1 credit
Prerequisites: Algebra I
Accounting I introduces concepts and principles based on a double-entry system of maintaining the financial records of a sole proprietorship, partnership and corporation. It includes analyzing business transactions, journalizing, posting and preparing worksheets and financial statements.

Grade 10,11,12

5901/3713 Personal Finance/Financial Planning 1 term/1 credit
Personal Finance/Financial Planning is a course designed to develop skills in the use of financial principles in making personal and business decisions. Student will research job qualifications and employment opportunities in finance. The course includes a study of the allocation of financial resources, the effects of finance and credit institutions on the business community and the impact of financial decisions on the consumer market. Students will explore banking, budgeting, and financial decisions that influence real world monetary goals. Ethical issues will be presented in the course. Students will receive ½ credit in Personal Finance and ½ credit in Financial Planning

Grade 10,11,12

5897 Interactive Multimedia Presentations 1 term/1 credit
Prerequisites: Computer Applications
Students use interactive multimedia tools to develop electronic presentations with graphic design. Creative design, persuasive communications, and language arts skills are applied through research, evaluation, validation, written, and oral communication. Typography, layout and design guidelines are applied. Copyright laws and ethical practices are reinforced in creating and formatting various presentations that require imported data/graphics, digital, audio, and video clips. Team development is emphasized as students work on multimedia project(s). Student’s design and implement weekly in-house presentations compatible with TV/large-scale plasma screen/computer formats. Laboratory facilities and experiences simulate those found in business and industry. Software used is PowerPoint and Adobe Photoshop.
Grade 10,11,12  
5902 Web Design I Essentials  
1 term/1 credit

**Prerequisites: Computer Applications, Interactive Multimedia.**

This course, which is designed as the first level of Web Design, will teach students workplace and leadership skills for advancement into the Web Design Application course. Keying and layout and design skills are essential. Students will develop Internet research techniques for business; acquire navigation mapping skills; effectively use a Web site; study fundamental concepts of digital commerce transaction security; examine related social, legal and ethical issues; study electronic financial management practices, and integrate the elements of Web Design.

Grade 11,12  
5903 Web Design II Applications  
1 term/1 credit

**Prerequisites: Computer Applications, Interactive Multimedia, Web Design Essential**

Web Design Essentials focuses on the language, structure, and essential concepts and principals of page layout and design and the ethics related to the production or Internet presentations. Typography layout, and design guidelines will be applied in the design of Web pages. Upon completion of the course, a student will be able to evaluate, implement and apply the use of technology in Digital Commerce and Web Page Design for business. This is a course, which is a project-based continuation of Web Design Essentials, teaches students work-related skills for advancement into post-secondary education and/or the workplace. The course will provide the concepts and applications that may lead to business industry certification. Course content includes exposure to advanced Web design, graphics, animations, and the complex site design. The course content provides students the opportunity to acquire advanced skills in both theory and practical application of Web design and of leadership and interpersonal skill development.

Grade 11,12  
5889 Business Management  
1 term/1 credit

**Recommended Prerequisites: Personal Finance/Financial Planning, Accounting I**

Students in Business Management will develop a foundation in the many activities, problems, and decisions that are intrinsic to the management of a successful business, as well as an appreciation for the importance of these responsibilities. Areas to be examined include business organization, ethical and legal responsibilities, communication, decision-making, personal safety, professional development and related careers. By gaining an understanding of these areas, students will be better prepared to enhance the business decisions of tomorrow.

Grade 9,10  
6084 Digital Arts and Design I  
1 term/1 credit

Digital Design and Design I is a course that provides a foundation in visual communication concepts and design strategies. Course content is designed to foster skills and understanding that are essential in modern digital graphics, motion graphics, publishing, Web, film/video, photography, and animation graphic industries. Focus will be on developing understanding of key design concepts and strategies, along with design challenges that translate into creative communication solutions which accurately and effectively reach targeted audiences. Along with study of design principles, conceptualization processes and techniques, students will explore various applications of design through extensive study of typography, style, composition, visual elements, color, creative technical software and various problem-solving tasks, that encourages higher order thinking. Exploration of career opportunities, development of leadership, teamwork, collaborative and technical skills requisite in many aspects of life.

Grade 11,12  
6086 Digital Arts and Design II  
1 term/1 credit

Digital Arts and Design II is a course that builds on the foundational core elements of visual communication concepts and design strategies, learned in Digital Arts and Design I. Course content is designed to reinforce skills and support understanding that are essential in modern digital graphics, motion graphics, publishing, Web, film/video, photography, and animation graphic industries. Focus will be on developing understanding of key Design concepts and strategies, along with design challenges that translate into creative communication solutions which accurately and effectively communicate. Along with continued study of design principles, conceptualization processes and techniques, students will gain mastery of various applications of design through continued study of typography, style, composition, visual elements, color, creative technical software and more focused problem-solving tasks that encourages higher order thinking. Exploration of career opportunities, development of leadership, teamwork, collaborative and technical skills requisite in many aspects of life and industry which are creative will be developed. Course content is also related to other pathways.
Grade 11,12  6087 Digital Arts and Design III  1 term/1 credit
Digital Arts and Design III. With the confluence of technologies, visual arts and creative practices have changed dramatically over the past several years. Increasingly, the design studio functions as a dynamic and vital space for learning, exploring, and innovation. Negotiating complex relationships, developing communication strategies that leverage new technologies and provide robust opportunities for the application of knowledge, skills, and critical thinking associated with an array of contemporary creative and studio practices is the new industry standard. Course content is selected to broaden the foundation of design concepts and understanding related to modern communication design. This course will foster advanced integrated skills that are essential in digital graphics, motion graphics, publishing, Web, film/video, photography, and animation graphic industries. Students will be exposed to real world design challenges in a laboratory facility through projects that simulate industry objectives. Course content is also related to other pathways.

Grade 10,11,12  5896 A-B Desktop Publishing/Yearbook  2 terms/1 credits
Students develop skills in electronic publishing design, layout, composition, and paste-up. The techniques applied require importing data/graphics using resources such as the Internet, scanner, digital cameras, etc. Students design, write, and produce a computer-based graphic multimedia project. Students must be highly motivated, able to write well, work well with peers, and be responsible in following through with tasks as the work culminates in publications including the school yearbook and other school documents. Enrollment is by permission of the instructor.
COSMETOLOGY

Cosmetology courses curriculum is based on requirements of the Tennessee State Board of Cosmetology. All clock hours passed are registered with the Tennessee State Board of Cosmetology and are transferable to any accredited Tennessee beauty school. (Valid Social Security Number required)

Skills USA club, which is a partnership of students, teachers and industry working together to ensure America has a skilled workforce in technical, skilled and service occupations, is an integral part of each cosmetology course. It is designed to develop leadership skills and job-skill training in lab and classrooms and promotes community service.

Grade 10,11

5983 Principles of Cosmetology 1 term/2 credits

This course, which is the first level of cosmetology, gives students an introduction to the curriculum as well as prepares students with work-related skills for advancement into the Design Principles of Cosmetology course. Content provides students the opportunity to acquire basic fundamental skills in both theory and practical applications of leadership and interpersonal skill development. Content stresses safety, environmental issues, and protection of the public and designers as integrated with principles of hair design, nail structure, and cosmetic procedures. Laboratory facilities and experiences simulate those found in the cosmetology industry.

Grade 10,11,12

5986 Design Principles of Cosmetology 1 term/2 credits

Prerequisite: Successful completion of Principles of Cosmetology and teacher recommendation

This course, which is the second level of cosmetology, prepares students for work-related skills and advancement into the Chemistry of Cosmetology course. Content provides students the opportunity to acquire knowledge and skills in both theory and practical application. Advanced knowledge and skills in hair design, nail artistry, and cosmetic applications will be enhanced in a laboratory setting, which duplicates industry standards.

Grade 11,12

5984 Chemistry of Cosmetology 1 term/2 credits

Prerequisite: Successful completion of Design Principles of Cosmetology and teacher recommendation

This course is the advanced level of cosmetology, preparing students to perform work-related services using chemicals in the cosmetology industry. Course content provides a foundation in theory and practical applications using lab facilities, which simulate industry standards.
Family and Consumer Sciences strives to strengthen the quality of home, work, and family life by providing the opportunity to gain knowledge and skills essential to becoming effective contributors to home and society. Students have the opportunity to become members of Family, Community, and Career Leaders of America (FCCLA).

**Grade 9,10**

**6003 Family and Consumer Science**

1 term/1 credit

Family and Consumer Science (FCS) is a comprehensive foundation course designed to assist students in developing core knowledge and skills needed for successful life planning and management. Content includes human development, family and parenting education, resource management housing and living environments, nutrition and foods, textiles and apparel, leadership development and career preparation. A unique focus is on the management of families, work and their interrelationships.

Family, Career and Community Leaders of America (FCCLA), the co-curricula student organization provides students with opportunities for leadership development, personal growth and school/community involvement.

**Grade 10,11,12**

**6013 Child and Lifespan Development**

1 term/1 credit

Child and Lifespan Development prepares students to understand the physical, social, emotional and intellectual growth and development form conception to adulthood. Further units of study include geriatrics; death and dying, and careers in human development. Hands on and observational learning experiences will be used whenever possible. Family, Career and Community Leaders of America (FCCLA), the co-curricula student organization provides students with opportunities for leadership development, personal growth and school/community involvement.

**Grade 10,11,12**

**6011 Life Connections**

1 term/1 credit

Life Connections is a course designed to assist students in making a successful transition from high school into the post high school environment. Students develop skills needed to be independent, responsible citizens. The role of communication in establishing and maintaining healthy interpersonal relationships is emphasized Life Connections will provide students with an understanding of how to plan for and manage careers in an ever changing workplace.

Family, Career and Community Leaders of America (FCCLA), the co-curricula student organization provides students with opportunities for leadership development, personal growth and school/community involvement.

**Grade 10,11,12**

**6004 Family and Parenting**

1 term/1 credit

Family and Parenting focuses on the significance of the family as a basic unit of society and the impact of parenting roles and responsibilities on the well-being of individuals and society. Instructional content includes the relationship between families and the individuals that make up families, families and society, communications, and parenting roles and responsibilities.

Family, Career and Community Leaders of America (FCCLA), the co-curricula student organization provides students with opportunities for leadership development, personal growth and school/community involvement.
Teaching as a Profession (TAP) 1 term/1 credit

**Prerequisites:** Child and Lifespan Development along with an ACT score of 19 in the reading category. This is a Dual Enrollment Class with Roane State.

Teaching is the profession that makes other professions possible. –Author Unknown

Teaching as a Profession is a course designed to capture the interest of secondary students as potential teachers, introduce students to teaching as a profession, and foster respect for the teaching profession. Students will gain knowledge and skills that will establish a foundation for a successful pathway to a teaching career. Content standards guide students to discover challenges, opportunities, and rewards of a teaching career. Content includes history and current issues of education; teacher roles, responsibilities, and characteristics; self-exploration and understanding; the teacher and learning processes; human growth and development; teaching career opportunities and preparation; and components of instruction. Students will learn through classroom observations and experiences, student organization activities, and the development of a professional portfolio.

Fashion Design and Merchandising 1 term/1 credit

**Prerequisite:** Family and Consumer Science

Fashion Design and Merchandising is a specialized course designed to introduce students to the world of fashion. Areas of study include fashion fundamentals, principles and elements of design; career options and preparation; product selection and maintenance; and consumer strategies. Instruction includes academic integration and technology applications.

Textiles and Apparel 1 term/1 credit

**Prerequisite:** Family and Consumer Science

Textiles and Apparel is a specialized course designed to build foundational skills in the selection, production, and alteration of textile and apparel products. Areas of study include social, psychological and physiological influences; fibers and fabrics; textile design and production influences; manufacturing systems; and career options and preparation. Instruction includes academic integration and technology applications.

Nutrition and Foods 1 term/1 credit

**Prerequisite:** Family and Consumer Science

Nutrition and Foods is a specialized course designed to help students understand the nutrient value, appetite appeal, social significance and cultural aspect of food. Students will examine the role of nutrition in the prevention of health conditions, such as obesity, and the optimal body performance throughout the lifespan. The course offers students opportunities to develop skills in the safe and sanitary selection, preparation, storing and serving of food, meal management to meet individual and family nutrition needs across the lifespan; and optimal use of food resources. Instruction includes academic integration and technology applications. Careers in nutrition and food industries will be explored.

**HEALTH SCIENCES**

Health Science Education 1 term/1 credit

This course is designed for any student that is interested in a career in the health care industry. Emphasis is on career success, nutrition, the metric system, safety measures, medical ethics, growth and development, environmental/community health, and individual/family health. Emphasis is on various careers in health care, facilities for practice, and Anatomy and Physiology of related body systems. Topics also covered include: employment skills, medical safety, cross-cultural care, patient assessment, and basic first aid. Students will become CPR certified during this course. Students are encouraged to join Health Occupation Students of America (HOSA). This course is a required prerequisite to all classes in this cluster.
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<tr>
<th>Grade 11,12</th>
<th>5993E/5995 Emergency Medical Services</th>
<th>1 term/2 credits</th>
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<tr>
<td><strong>Prerequisites:</strong> Health Science <strong>Recommended:</strong> Anatomy &amp; Physiology</td>
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<tr>
<td>Emergency Medical Services teaches knowledge of the emergency medical field including: duties, responsibilities and legal aspects. Skill development in patient assessment, communication, first aid measures, and the use of emergency medical equipment is taught. The course also covers medical terminology, airway management, cardiopulmonary resuscitation, and many other life saving skills. This class is offered as a dual credit class with Roane State Community College. Students who successfully complete the dual credit class are eligible to take the First Responder National Registry Exam.</td>
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<th>Grade 11,12</th>
<th>5999 Medical Therapeutics</th>
<th>1 term/1 credit</th>
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<tr>
<td><strong>Prerequisite:</strong> Health Science <strong>Recommended:</strong> Biology, Chemistry, and Anatomy &amp; Physiology</td>
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<td>The study of medical therapeutics leads to achievement in any health care/medical field. Emphasis will be on leadership development, anatomy and physiology, medical terminology, nursing perspectives and issues, and patient care skills. Students will learn to monitor patient status, utilize principles of body mechanics, and plan, implement, and analyze the care provided based on age, physical, and psycho-social needs. Higher level, critical thinking is exercised as students develop patient care skills. <strong>Must complete to be eligible for Clinical Internship.</strong></td>
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<th>Grade 11,12</th>
<th>5883 Medical Terminology Dual Credit</th>
<th>1 term/1 credit</th>
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<td><strong>Prerequisite:</strong> Health Science, Must be 17 years old. This class will meet Tuesday and Thursday mornings.</td>
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<td>This course will provide knowledge of ways to document an individual care in the home, hospital, long term care, outpatient and others. Careers could include medical records, health management, risk management, unit coordinator, computer operator, social worker, patient advocate, hospital chaplain, clinical department director, community services specialist, computer security specialist, data analyst, health writer, medical librarian, medical video producer and others.</td>
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<tr>
<th>Grade 11,12</th>
<th>5993N/6000 Nursing Education/Medical Therapeutics Clinical Internship</th>
<th>1 term/2 credits</th>
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<tr>
<td><strong>Prerequisite:</strong> Recommended: Biology, Chemistry, and Anatomy &amp; Physiology, Diagnostic Medicine</td>
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<tr>
<td>Required: Health Science Education and Medical Therapeutics</td>
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<td>These courses are taught concurrently during two consecutive blocks and are designed to reinforce and apply previously learned competencies by providing students the opportunity to gain hands-on clinical experiences through job shadowing at a health care facility. The curriculum is also for students interested in physical therapy, athletic training, exercise physiology, and recreational therapy. Emphasis is on scientific principles of body systems and therapeutic physical procedures. Students will be eligible to take the state certification exam for nursing assistants upon completion of this class. <strong>Due to state requirements, class size is limited to 15.</strong></td>
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<th>Grade 10,11,12</th>
<th>5994 Diagnostic Medicine</th>
<th>1 term/1 credit</th>
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<td><strong>Prerequisite:</strong> Health Science</td>
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<td>Diagnostic Medicine creates a picture of an individual’s health status at a single point in time. This could include careers as audiologist, cardiology, imaging, medical laboratory, radiography, nuclear medicine, stereotactic radiosurgery, speech pathologists, respiratory therapist, clinical laboratory technician, pathologists, medical doctor histotechnologist, prosthodontist, and others.</td>
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<th>Grade 10,11,12</th>
<th>5996 Forensic Science</th>
<th>1 term/1 credit</th>
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<td><strong>Prerequisite:</strong> Health Science</td>
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<td>This course is an overview of how science is applied to solving crimes. Topics include history of forensic sciences, collecting of evidence, analyzing results and hands-on applications of many laboratory techniques used in solving crimes and identifying people and future careers.</td>
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MARKETING/HOSPITALITY AND TOURISM

Grade 10,11  5931  Principles of Marketing and Management I  1 term/1 credit
Marketing education involves the study of all the activities necessary to move a product from where it is produced to where consumers have access to products. This program provides an overview of business and retailing and will introduce basic marketing fundamentals and economic concepts. Emphasis is placed on the role of marketing in the private enterprise system and the impact of global marketing. Students are required to participate in student-generated projects that will require a limited amount of after-school participation. This course satisfies the graduation requirement for economics. **Seniors are not eligible to take Marketing I without the approval of the course instructor.**

Grade 11,12  5932  Advanced Strategies: Marketing and Management II  1 term/1 credit
**Prerequisite: Principles of Marketing I**
Marketing and Management emphasizes marketing concepts and management functions performed by professionals. Students will examine challenges, responsibilities and risks that managers face in today’s workplace. This course also emphasizes the development of decision-making skills so that students understand the impact of management-oriented challenges. Subjects will include finance, entrepreneurship, risk management, marketing information systems, purchasing, human resource skills and leadership development. Communication, interpersonal skills and mathematics skills are reinforced in the course. Membership in DECA is required of all students as well as participation in DECA-sponsored activities including sale projects, service projects and other special events.

Grade 11,12  5939  Sports and Entertainment Marketing  1 term/1 credit
**Prerequisite: Principles of Marketing I and permission of the teacher**
This specialized course is designed to offer students an opportunity to gain knowledge and develop skills related to the growing sports and entertainment industry. Students will develop skills in the areas of mass communications and market appeal, positioning, merchandising, advertising, public relations/publicity, event marketing, sponsoring, ticket distribution, and career opportunities as they relate to the sports and entertainment industry. Students will work in teams to create mock professional franchises and develop marketing and promotional strategies for their franchise. **Membership and participation in DECA is required.**

Grade 11,12  5936  Advertising and Public Relations  1 term/1 credit
**Prerequisite: “B’ average or better in Principles of Marketing I and permission of teacher**
The objective of any effective promotional tool is to inform, to communicate, to persuade or to remind consumers of a product or business. Advertising and Public Relations is the study of the communications tools used to influence consumers to buy products. Students will work in teams as “advertising executives” to develop a promotional campaign and budget for a client. Verbal and creative skills are important in the world of advertising and students are expected to develop verbal and visual presentations. Activities will include analyzing available media, developing promotional messages, creating a television and radio commercial and designing specialty media such as brochures, flyers, and displays. **Membership in DECA and participation in chapter activities are required.**
The following programs make up the TECHNOLOGY AND INDUSTRY CURRICULUM, which are structured, to assure that students will exit high school with strong, marketable skills. Upper level courses stress real-world experience and industry standards. When planning to take T & I programs, students should check prerequisites carefully and work with each instructor to develop course plans.

**Grade 9, 10**

**6071 Transportation Core**  
1 term/1 credit

The Transportation Core class prepares students for entry into all subsequent transportation industry courses. Students explore career opportunities and requirements of a professional service technician, covering beginning service skills as well as workplace success skills. **NOTE:** Students that are interested in either Auto Technology or Collision Repair and Refinish Technology must take Transportation Core as the first course in the sequence.

**Grade 10, 11**

**6028 Brake Systems**  
1 term/1 credit

**Prerequisite: Successful completion of Transportation Core**

This course offers training in the diagnosis and repair of hydraulic, mechanical, and electrical systems used in standard and anti-lock brake systems. Course content includes diagnostic, repair, and/or service technology of truck hydraulic and anti-lock systems to original equipment manufacture specifications. Experiences simulate automotive industry operations through training aids, lab facilities, and school based learning opportunities.

**Grade 11, 12**

**6031 Suspension and Steering**  
1 term/2 credits

This course prepares students for entry-level positions or advanced training in automotive suspension and steering systems. The course material teaches the principles of automotive suspension/steering systems and four-wheel suspension alignment. Content provides the student the opportunity to acquire marketable skills by training in wheel alignments and the testing, diagnosis, and repair of suspension and steering systems. Experiences simulate automotive industry operations through training aids, lab facilities, and school based learning opportunities.

**Grade 10, 11**

**6062 Non-Structural Analysis and Damage Repair**  
1 term/1 credit

**Prerequisite: Successful completion of Transportation Core**

Students will study theory and lab in auto-body construction, parts, metal refinishing, and external sheet metal straightening. They will use different types of plastic fillers in order to complete the repairs. Students will use mig welders to make rust repairs. They will also learn the correct procedure to remove and replace body trim. In addition they will remove, replace, and align bolt-on body panels.

**Grade 11, 12**

**6064 Structural Analysis and Damage Repair**  
1 term/2 credits

Students will study theory and lab in conventional and unibody frame, determine the extent of the damage, the direction of impact, and initiate an appropriate plan of repair. Students will use a mig welder to spot and stitch weld panels in place. Safety is always a first. The students will learn to set a vehicle up on a Frame Rack and also learn to cross reference measurements of a damaged vehicle. Students will also learn how to remove and replace corrosion protection. Students will study theory.
Grade 11,12  6063 Painting and Refinishing  1 term/2 credits
Students will study Theory and Lab in the operation and the maintenance of paint and equipment. They will be using base-coat/ clear-coat paints and do-over on all paint jobs, including spot painting and blending techniques to match existing paint. The students will also learn the preparation in final surface finish by using the correct abrasive, power buffing, and hand rubbing. Care and detail of new and old finishes and personal safety during the use of refinishing will be taught.

CARPENTRY

Grade 9,10  6073 Construction Core  1 term/1 credit
This introductory course provides a basic introduction to all aspects of the construction industry. Content includes leadership, safety, math related to construction trades, hand tool and power tool operation, blueprint reading, and rigging. NOTE: Students that are interested in either Carpentry or Welding must take Construction Core as the first course in the sequence.

Grade 10,11  6035 Carpentry I  1 term/2 credits
Prerequisite: Construction Core
This course is for two credits. It introduces students to basic skills and knowledge related to residential and commercial carpentry. Topics include wood, metal, and concrete building materials, fasteners, hand and power tools, fabrication based on construction plans, and framing of platform and post-and-beam structures. This course includes skills and knowledge typically associated with apprentice carpenters.

Grade 11,12  6036 Carpentry II  1 term/2 credits
Prerequisite: Construction Core
This is a two block advanced course, which will enable students to learn, and practice skills related to a higher level of carpentry. This class focuses on the actual construction and completion of projects.

MASONRY

Grade 11,12  6079 Masonry I  1 term/2 credits
Prerequisite: Construction Core
This two block advanced course provides an introduction to concrete, block, and brick as components of construction, both residential and commercial.

WELDING

Grade 10, 11  6078 Introduction to Welding  1 term/2 credits
This is an introductory course with a concentrated study of the safety procedures and general principles of welding. An introduction to various methods of welding, application of the trade, and basic skills will be stressed.

Grade 11  6034 Principles of Welding  1 term/2 credits
Prerequisite: Introduction to Welding
This is an introductory course with a concentrated study of the oxyfuel cutting and the shielded metal arc welding processes. Topics include careers, metal identification, basic measurements and mathematics, hand tools, blueprints and safety related to the industry.
Grade 11,12 6033 Welding Applications 1 term/2 credits

Prerequisite: Introduction to Welding, Principles of Welding

This course focuses on more advanced topics including gas metal arc welding and gas tungsten arc welding. It also incorporates the study of plasma arc cutting and carbon arc gouging. Lab work simulates industry practices and standards. After successfully completing this course, students can take the Tennessee Technology Center’s welding course and receive an Associate Degree in welding.

PRE-ENGINEERING/ARCHITECTURE

Grade 9 6037 Computer Aided Drafting I 1 term/1 credit

Prerequisite: Algebra I

Computer Aided Drafting I is a course in which students learn the basic concepts of scale drawings and orthographic projections by making simple two- and three-dimensional drawings using manual drafting tools and computer-aided drafting (CAD). Course content will enable students to make the transition into the use of CAD software by having them make increasingly sophisticated drawings. Student work in teams will culminate in a class project to create a complete set of construction and assembly drawings for a mechanical product.

Grade 9,10 6039 Computer Aided Drafting II 1 term/1 credit

Prerequisites: Computer Aided Drafting I; Algebra I; Basic experience with graphical computer interface

Computer Aided Drafting II is a course in which students learn advanced two-dimensional and basic three-dimensional concepts of scale drawings and orthographic projections using a software program. Course content will enable individual students to create increasingly sophisticated drawings using a software program and will culminate in the creation of a complete set of construction and/or assembly drawings for a mechanical project.

Grade 10,11 5924 Principles of Engineering 1 term/1 credit

Prerequisite: Computer Aided Design/CAD and Geometry

In this course, students will explore the nature of engineering and the fundamental skills for all engineering fields, as well as the role of quality assurance and quality control procedures in manufacturing. Emphasis is placed on actual projects (one structural, one mechanical and one electrical), presentations, and the use of modern tools such as CAD. Course may include site visits to witness engineering tasks, projects, and quality control. Completion of this cluster can be used towards college credit.

Grade 12 5927 Advanced Computer Aided Design 1 term/2 credits

Prerequisite: Computer Aided Design/CAD and Geometry

In this course students learn to create engineering/architectural models and/or drawings including plan drawings, assembly drawing, welding and process drawings, cross sections, 3-D representations, bill of materials and construction details. The course consists primarily of individual projects with some group work. Emphasis is on drawing projects of increasing complexity. AN ADDITIONAL PROJECT WILL BE REQUIRED TO EARN HONORS CREDIT. Completion of this cluster can be used towards college credit.

WORK-BASED LEARNING (CO-OP)

Grade 12 6105 Work-Based Learning (Co-Op) 1 term/1 credit

Prerequisite: Enrollment is by permission of the HHS Coordinator

This course offers on-the-job training for students in grade 12 who are approved for the program and is designed to provide students with instruction and experiences related to course-related skills. Students are placed in employment with a licensed business related to their focused course of study and career goal. Credit is earned at the rate of a minimum of 10 hours on the job per week for 18 weeks for 1 unit of credit per term. Maximum credit available is two per school year. Please note that once students are enrolled in Work Based Learning, they cannot drop the course.
### Career Technical Education Programs of Study

#### Agriculture, Food & Natural Resources
- **Veterinary Science**
  - Principles of Agricultural Sciences
  - Small Animal Care
  - Veterinary Science
- **Animal Production**
  - Principles of Agricultural Sciences
  - Livestock Management
  - Animal Biotechnology
- **Power, Structures, and Tech. Sys**
  - Principles of Agricultural Sciences
  - Agriculture Mech. and Maintenance
  - Agricultural Power and Equipment
- **AgriBusiness**
  - Principles of Agricultural Sciences
  - Leadership Communications
  - Agricultural Sales and Marketing
- **Landscaping and Turf Science**
  - Principles of Agricultural Sciences
  - Landscaping & Turf Management
  - Greenhouse Management
- **Transportation, Distribution, and Logistics**
  - Collision Repair Technology
    - Transportation Core
    - Non-Structural Repair
    - Structural Repair (2)
    - Painting & Refinishing (2)
  - **Automotive Technology**
    - Transportation Core
    - Automotive Brake Systems
    - Suspension and Steering (2)
- **Business Management & Administration**
  - Business Management
    - Computer Applications
    - Personal Finance/Financial Planning
    - Business Management
  - **Finance**
    - Banking and Finance
      - Computer Applications
      - Accounting I
      - Personal Finance/Financial Planning
  - **Education and Training**
    - Teaching Training Services
      - Child and Lifespan
      - Teaching as a Profession

#### Arts, Audio/Visual Technology, Communication
- **Design Communications**
  - Digital Arts and Design I
  - Digital Arts and Design II
  - Digital Arts and Design III
- **Fashion Design**
  - Visual Arts
  - Fashion Design & Merchandising
  - Textiles and Apparel
- **Information Technology**
  - Multimedia Management
    - Computer Applications
    - Interactive Multimedia Presentation
    - Web Design I
    - Web Design II or Desktop Pub.
  - **Architecture & Construction**
    - **Carpentry**
      - Construction Core
      - Carpentry I (2)
      - Carpentry II (2)
    - **Masonry**
      - Construction Core
      - Masonry I (2)
      - Masonry II (2)
  - **Welding**
    - Intro to Welding
    - Basic Principles of Welding (2)
    - Advanced Welding Applications (2)
- **Production Design**
  - Computer Aided Drafting I
  - Computer Aided Drafting II
  - Advanced Drafting and Design (2)
- **Hospitality and Tourism**
  - **Sports and Entertainment Mgmt**
    - Marketing I
    - Travel & Tourism
    - Sports and Entertainment
  - **Marketing**
    - Marketing Communication
      - Marketing I
      - Advertising and Public Relations
      - Web Design I or Int. Multimedia
      - Sports and Entertainment

#### Health Sciences
- **Biotechnology**
  - Health Science Education
  - Diagnostic Medicine
  - Anatomy and Physiology
  - Clinical Internship
- **Forensic Science**
  - Health Science
  - Diagnostic Medicine
  - Anatomy and Physiology
  - Forensic Science
- **Diagnostic Services**
  - Health Science
  - Diagnostic Medicine
  - Ant & Phys or Medical Terminology
  - Clinical Internship
- **Health Informatics**
  - Health Science
  - Computer Apps or Med. Terminology
  - Clinical Internship
- **Therapeutic Nursing Services**
  - Health Science Education
  - Medical Therapeutics
  - Nursing Education (2)
  - Ant & Phys or Medical Terminology
- **Therapeutic Emergency Services**
  - Health Science Education
  - Medical Therapeutics
  - Anatomy and Physiology
  - Emergency Medical Services (2)
- **Human Services**
  - Counseling & Mental Health
    - Family & Consumer Science
    - Child & Lifespan Development
    - Family & Parenting Education
    - Psychology
  - **Family & Community Services**
    - Family & Consumer Science
    - Nutrition & Foods
    - Child & Lifespan Development
    - Life Connections or Sociology
  - **Nutritional Counseling**
    - Child & Lifespan Development
    - Nutrition & Foods
    - Psychology
  - **Cosmetology**
    - Principles of Cosmetology (2)
    - Design Principles of Cosmetology (2)
    - Chemistry of Cosmetology (2)

* (2) denotes a two block class

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