

# DISTRICT

# course catalog

2014–2015



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# GENERAL INFORMATION

## SCHEDULING INFORMATION

1. Up to two world language Carnegie units of credit may be transferred from middle school to high school. Additionally, up to three Carnegie units of credit in other subject areas may be transferred from middle school to high school. If a middle school student wishes to take any online courses, prior school counselor approval must be obtained. The student must be enrolled in an online program accredited through AdvancED. Middle school students may earn a total of three credits through online programs.
2. Students transferring from other high schools receive credit for previously earned coursework. When students transfer during the middle of a semester, they will be placed in comparable classes whenever possible.
3. Students are expected to register for eight units of coursework. Students who are approved to travel to attend classes at Lexington Technology Center, any Center for Advanced Study, another high school within the district, a college or university or who wish to enroll in an internship may only be able to enroll in seven units.
4. English courses should be taken in sequential order. Students may only enroll in one English class per academic year. Exceptions are made for students who have completed the process for early graduation or who have failed an English course and need to be on track to graduate within four years. Exceptions are also considered for students who need to take more than one English course in a year to be able to enroll in an Advanced Placement English course.
5. If a student enrolls after the beginning of a course, attendance counts from the first day of the course, not from the day of enrollment. Students transferring from another school or from another level of the same course receive credit for days attended in the previous class. Absences from the previous course are also transferred.
6. Students who fail a course may not meet the prerequisite requirement for a subsequent course. If the schedule is not corrected by the counseling department, the student should notify their counselor the first day of class.
7. If a student fails a course or if a course is cancelled, schedules will be adjusted over the summer by counselors. Students will receive corrected schedules at the beginning of the year.
8. Students earning a grade of 60-69 in a course for high school credit may be eligible for credit recovery. If a student successfully completes a credit recovery course, a final grade of 70 will replace the failing grade. This opportunity is available in our high schools for many courses required for graduation. Additionally, courses are available for credit recovery through South Carolina Virtual School and other online programs accredited through AdvancED. It is important to note that regardless of the grade earned in an online or school-based credit recovery program, the failing grade will be replaced by a final grade of 70. All credit recovery courses must be approved by the school counselor prior to enrollment.
9. Students are encouraged to register for English, math, science and world language course(s) in the level of instruction recommended by their teacher. Students may elect to register for more difficult coursework with parental permission.
10. Administrators assign classes for students who fail to complete the registration process.

## VIRTUAL SCHOOL

LexOne Virtual School course offerings include College Prep Biology I, English I, English 3, Algebra I, American Government (.5) and Economics (.5). The district will offer additional courses as it determines there is a need. LexOne Virtual School may facilitate enrollment in online courses accredited by AdvancedEd for students with unique circumstances. LexOne Virtual School also serves as a sponsor for student enrollment in the South Carolina Virtual School Program.

For more information, see the LexOne Virtual School Website: <http://blog.lexington1.net/lex1vs/>. Students wishing to enroll in any virtual school course must meet all requirements outlined on the web page, including approval from their school counselor. LexOne Virtual School recommends that students limit themselves to three virtual school credits per year and that a maximum of 12 virtual school credits be applied to the total number of units required for a high school diploma.

For more information contact the LexOne Virtual School Office at (803) 821-1056 or email [dsistare@lexington1.net](mailto:dsistare@lexington1.net).

## ADDITIONAL VIRTUAL OPPORTUNITIES

Students may take virtual courses for credit through South Carolina Virtual School and other online programs accredited through AdvancED. All courses must have prior approval of the parent and the school counselor to assure appropriate placement and credit on the transcript. It is recommended that students limit themselves to three virtual school credits per year and that a maximum of 12 virtual school credits be applied to the total number of units required for a high school diploma.

## SCHEDULE/LEVEL CHANGES

Students are encouraged to choose courses carefully during the registration period. Students receive a verification of their requests following the completion of the registration process. The verification form allows students to review their requests and make any appropriate changes prior to the building of the master schedule.

Once the master schedule is defined, if circumstances change that affect the original course selection, students should submit a request for course change complete with parent signature to the School Counseling Office within 5 days after the semester begins (10 days for year-long courses).

Level change requests are considered with a written parent request **if class space allows**. Students may request a change in instructional level within one week after the first 4.5-week interim period of a 90-day course or within one week after the nine weeks report card of a 180-day course. The following Uniform Grading Policy withdrawal procedures are applicable: With the first day of enrollment in the course as a baseline, students who withdraw from a course within three days in a 45 day course, five days in a 90 day course, or ten days in a 180 day course will do so without penalty.

Students who withdraw from a course after the specified time shall be assigned a WF, and the F (as a 61) will be calculated in the student's overall grade point average.

**NOTE:** Due to schedule conflicts, there is no guarantee that all courses requested can be scheduled. When possible, students with conflicts are notified to allow them to make alternate selections.

## **SUMMER SCHOOL (60 Hour Credit Recovery)**

Students who fail a course may choose to enroll in Lexington One's summer school. Students receive a grade for the summer school course but also retain the failing grade on their transcript. The district's summer school program does not include enrollment in courses for initial credit. Information on the courses being offered through summer school is available on the district website by early spring. Students may also wish to enroll in summer school programs outside the district for initial credit.

## **ATTENDANCE**

Students taking courses for high school credit can accrue the following number of unexcused absences before losing course credit:

- 45-day classes 3 unexcused absences
- 90-day classes 5 unexcused absences
- 180-day classes 10 unexcused absences

**Three unexcused tardies (three minutes late) to any one class can count as an unexcused absence. Students who exceed the approved limits for unexcused absences do not receive course credit.**

## **SEARS**

The SEARS program is a Lexington One attendance extension program for high school students who received a final grade of "F" due to unexcused absences beyond the limit allowed for the course. To participate in this program, the student must have otherwise received a passing grade in the course.

**Students are allowed to make up no more than two days per term of unexcused absences.** Students with excessive absences first term must attend SEARS at end of first term; students with excessive absences second term must attend SEARS at end of second term. The cost of the program is \$25 a day.

## **RETAKE A COURSE**

According to the S.C. Uniform Grading Policy, students may retake a course at the same difficulty level under the following conditions:

- Only courses in which a grade of a D or F is earned may be retaken.
- The course in which a D or F is earned may only be retaken during the current academic year or no later than the next academic school year.
- The student's record will reflect all courses taken and the grade earned. Students who repeat a course in which a D was earned will only receive credit for the repeated course grade.
- Students taking courses for a Carnegie unit prior to their ninth-grade year may retake any such course regardless of the grade earned (must be retaken during ninth grade year). In this case, only the retake grade is used in figuring the student's Grade Point Ratio (GPR) and only the retake attempt is shown on the transcript. This rule applies whether the grade earned is higher or lower than the pre-ninth grade attempt.

## **EXAMS**

Students in Grades 9–12 take cumulative, standards-based, end-of-course examinations. When applicable, schools administer end-of-course tests required by the Educational Accountability Act in lieu of district end-of-course exams.

Cumulative, end-of-course examinations have a computational weight of 20 percent in the final average.

Students taking Advanced Placement (AP), AP Extension courses and International Baccalaureate (IB) courses are exempt from final exams in those AP/IB courses.

Seniors are exempt from exams except for courses in which they are failing or courses in which they elect to take the exam. Seniors who are not failing a course may opt to take a final exam in that course to improve their grade. For these students, their final grade may be raised, but not lowered, by their final exam grade.

## **PROMOTION AND RETENTION**

In order to comply with state law and to ensure continuous and appropriate progress through Grades 9–12, the Lexington One Board of Trustees has established Administrative Rule IHE-R attached to the district's Promotion and Retention Policy, IHE. Students are promoted or retained in grade classifications based on these criteria. In Grades 9 through 12, in order to be eligible for promotion to the next grade classification, students must have earned a minimum number of units, as specified below.

To be promoted to Grade 10, second-year students must have earned a minimum of five units. They must have at least one unit each in language arts and mathematics and be enrolled in courses leading to an additional unit of credit in both language arts and mathematics.

To be promoted to Grade 11, third-year students must have earned a minimum of 11 units. Those units must include two language arts and two mathematics courses.

To be promoted to Grade 12, fourth-year students must have earned a minimum of 16 units. Students must have earned at least two units each in English and mathematics and be enrolled in course work for the following year that will allow them to complete the 24 units needed for the South Carolina High School Diploma.

At any time during the fourth year of high school that a student is enrolled in the necessary courses to graduate, whether onsite or virtual, the student will be assigned senior status. A student who plans to graduate in less than four years must complete the necessary application form, which may be obtained through the Counseling Office.

## **HONOR SOCIETIES**

Each district high school sponsors a chapter of Beta Club and/or National Honor Society.

The first year of high school focuses on establishing eligibility status for participation. Students in Grade 9 who obtain an end-of-year GPA of 3.75 will be eligible for participation in Beta Club the following year. Students in Grade 9 who obtain an end-of-year GPA of 4.0 will be eligible for participation in National Honor Society the following year.

Students in Grades 10–11 will be required to obtain a cumulative end-of-year GPA of 3.75 for Beta Club and a cumulative end-of-year GPA of 4.0 for National Honor Society. Both organizations may not be available at all high schools.

Lexington Technology Center sponsors a National Technical Honor Society (NTHS) chapter. Individual high schools may also sponsor a chapter.

## GRADUATION REQUIREMENTS

To be eligible to receive a South Carolina High School Diploma, students must earn 24 units. Based on state law, requirements to receive a South Carolina High School Diploma (graduation requirements) for students in Grades 9–12 are prescribed as follows:

English

4 Units

U.S. History

1 Unit

Economics

½ Unit

Government

½ Unit

Other social studies

1 Unit

Mathematics

4 Units

Three sciences\*

3 Units

Computer science

1 Unit

Physical education or JROTC

1 Unit

World language or career/technology elective

1 Unit

Electives

7 Units

Total Required

24 Units

\*Biology and two more.

**Note: All ninth-grade students in Lexington One are required to take Leadership 21 and Health and Wellness.**

## GRADUATION EXERCISES

Only those students who pass **all the units required for a diploma** may participate in the commencement exercises held at the end of the school year.

Special education students who meet all the requirements of their Individual Education Plan (IEP) but have not met the requirement for the South Carolina High School Diploma are allowed to participate in the commencement exercises and receive a certificate of achievement. All special education students should meet with their IEP teams to discuss the requirements for this certificate.

## HONOR GRADUATES

Each high school recognizes honor graduates at graduation. Seniors with an overall Grade Point Average (GPA) of 4.0 on the SC Uniform Grading Scale or a GPA that ranks in the top 10 percent of the senior class at each high school are recognized as honor graduates.

## GRADE POINT RATIO

South Carolina uses a Uniform Grading Scale to calculate Grade Point Ratio (GPR) and class rank for high school students. The South Carolina Uniform Grading Scale assigns grade points for each numerical grade. By state mandate, all courses carry the same grade points with the exception of Honors, AP and IB courses. Honors courses receive an additional 0.5 weighting and AP and IB courses receive an additional 1.0 weighting. Appendix A provides a chart listing number breaks for letter grades, non-weighted grade points and weighted grade points for specified levels.

## CLASS RANK

All courses taken for high school graduation credit are included in the calculation of class rank. The instructional level of each course, the student's grade in each course, and the total number of courses attempted are included in the computation of class rank. Under the Uniform Grading Policy passed by the South Carolina State Board of Education in December 1999, all course grades are based on a state-defined grading scale with corresponding grade point values for each numerical grade. In addition, the policy specifies that only courses taught at the Honors, Advanced Placement, International Baccalaureate, and/or dual enrollment in college courses may be awarded additional weighting values (.5 quality point for Honors and dual enrollment credits and 1.0 quality point for Advanced Placement credits) to be used in computing grade point averages and class rank. Grade Point Ratio (GPR) is calculated using the following formula:

$$\text{GPR} = \frac{\text{sum (quality points x units)}}{\text{Sum of units attempted}}$$

Once a GPR has been computed for all students, all grade point ratios are rank ordered numerically from highest to lowest and each student's class rank is determined by the position of his/her GPR relative to all other students in a given grade. In instances of equal GPRs for more than one student, the same class rank is given and the following value in sequence will be omitted. Class ranks are calculated at the end of the academic school year.

Class rank is one consideration in the college admissions process. It is also used as a criterion for some scholarships. Any questions or concerns students have about class rank should be discussed with a counselor. Students are reminded that one's position in the class rank system is relative to the weighted rank of all other students in a particular grade. Therefore, as the numbers and performance of other students in a particular grade group changes, a student's class rank may vary as well even though his/her own academic performance may remain constant.

## HONORS COURSES

Honors-level courses are designed for students who plan to enroll in a four-year college or university upon graduation. These accelerated courses are provided for students who meet the prerequisite course criteria.

It is the expectation of the district that all eighth-grade students enrolled in high school credit bearing courses continue accelerated instruction by taking honors, Advanced Placement and/or International Baccalaureate courses.

## CENTERS FOR ADVANCED STUDY

Each high school will house a Center for Advanced Study to expose students to advanced content areas tied to their interests and help them develop advanced learning skills. The centers include Advanced Agribusiness Research; Advanced STEM Studies, Law and Global Policy Development; Media Arts, Design and Production; Public Health and Advanced Medical Studies; Sustainable Solutions; and World Languages and International Business.

## ADVANCED PLACEMENT COURSES

Advanced Placement (AP) courses are available in the district, based on sufficient enrollment, in English, mathematics, computer science, science, social studies, world language and the fine arts. Students must meet the established criteria before they can enroll in each of the courses. The specific criteria are explained in the course descriptions.

These courses offer college-level instruction in high school, preparing the student for the rigors of college. Students must take the AP Exam and the Extension Honors linked course, if required, to receive AP weighted credit. Successful scores on the AP Exam may qualify students for college credit and advanced standing in colleges and universities throughout the United States. Because AP courses are college-level courses, students should expect intensified study and great demands placed on their time and energy.

## INTERNATIONAL BACCALAUREATE

The International Baccalaureate Diploma Programme is a rigorous pre-university course of studies designed to meet the needs of the highly motivated high school student in Grades 11 and 12. The comprehensive two-year curriculum allows graduates to experience an internationally recognized program.

Students are required to study and complete examinations in six academic subject areas. This allows students to explore some subjects in depth and some more broadly over the two-year period.

Students are also required to take Theory of Knowledge (a critical thinking course requiring a 1,600 word essay), write an extended essay of 4,000 words and participate in service activities.

This district program is located at Lexington High. For more information, contact a high school counselor and visit the Web site at [www.ibo.org](http://www.ibo.org).

## DUAL CREDIT

Dual credit courses, whether they are taken at the school where the student is enrolled or at a postsecondary institution, are those courses for which the student has been granted permission by his or her home school to earn both Carnegie units and college credit.

Students must obtain written approval from the principal or his/her designee before enrolling in a college course designated as dual credit. Students should plan on remaining at their home campus for at least one half day.

Only college courses listed below are considered dual credit and transfer to the high school with dual credit weighting. Students may wish to enroll in other college courses through concurrent enrollment. Concurrent coursework does not transfer back to the high school transcript. Students wishing to enroll in either dual credit or concurrent enrollment should contact their guidance counselor.

## APPROVED DUAL CREDIT COURSES

### Midlands Technical College Courses

- English (must take English 1–4 prior to applying for dual credit)
  - ENG 101 English Composition I 301500EW
  - ENG 102 English Composition II 309921EW
- Science (must meet placement test requirement)
  - CHM 110 College Chemistry I 329911EW
  - CHM 111 College Chemistry II 329912EW

- Social Studies
  - HIS 101 Western Civilization to 1689 339923EW
  - HIS 102 Western Civilization Post 1689 339924EW
- Mathematics (must meet placement test requirement)
  - MAT 140 Analytical Geometry and Calculus I 319913EW
  - MAT 141 Analytical Geometry and Calculus II 319914EW
- History and Appreciation of Art
  - ART 101 459900EW
- Medical Terminology
  - AHS 102 554000EW

### University of South Carolina Courses

- English (must take English 1–4 prior to applying for dual credit)
  - ENGL 101 Composition 301501EW
  - ENGL 102 Composition and Literature 309923EW
- Mathematics (must meet prerequisite)
  - MATH 141 Calculus I 319915EW (prereq: placement test)
  - MATH 142 Calculus II 319916EW (prereq: placement test or C in MATH 141)
  - MATH 241 Vector Calculus 319917EW (prereq: placement test or C in MATH 142)
  - MATH 242 Elementary Differential Equations 319919EW (prereq: placement test or C in MATH 142)
  - MATH 300 Transition to Advanced Mathematics 319920EW (prereq: MATH 142)
  - MATH 544 Linear Algebra 319918EW (prereq: MATH 241)
  - MATH 574 Discrete Mathematics I 319921EW (prereq: MATH 142)
- Physics
  - PHYS 211 Essentials of Physics I 329913EW (prereq: C in MATH 141)
  - PHYS 212 Essentials of Physics II 329914EW (prereq: C in PHYS 211 and MATH 142)
- Computer Science
  - CSCE 145 Algorithmic Design I (prereq: placement in MATH 141) 329922EW
  - CSCE 146 Algorithmic Design II (prereq: C in CSCE and MATH 141) 329923EW

### Additional Dual Credit Opportunity

- Teacher Cadet 338900EW (State requirement: overall grade point average of 85 or higher, high class rank, five teacher recommendations and a written essay). See “Other Elective Credit” section for course description.

Note: If the above courses are not adequate for an individual student’s course of study, the student may petition the Dual Credit Study Committee to consider the addition of a specific course. The request should be submitted in writing to the district’s Academic Officer for Innovation. The request should include the course title, the course number, the particular college or university, and an explanation as to why the course should be added to the list. Requests should be submitted before July 31 or November 30 in order to be reviewed at the August or December committee meeting.

## **INTERSCHOLASTIC ACTIVITIES**

### **ELIGIBILITY**

A student must be taking a minimum of four academic courses, or their equivalent, for which no previous credit has been received. A student who is repeating a course for which he has previously received credit cannot count this course as one of the four required for eligibility. This is considered as “monitoring” a course.

A student must not have received a high school diploma. If a student turns 19 years of age before July 1 of the upcoming school year he/she is not eligible.

Specific requirements for academic eligibility are mandated by state law under the Education Improvement Act (EIA):

1. To participate in interscholastic activities, students in Grades 9–12 must achieve an overall passing average and pass a total of five academic courses.
2. Students must satisfy eligibility requirements in the semester preceding participation.
  - First semester eligibility is determined by using the final grades earned during the previous year.
  - Credits earned in a summer school approved by the South Carolina Department of Education may apply to first semester eligibility. A maximum of two courses per year may be used.
  - Students eligible for a first semester sport are permitted to complete that sport even if it extends into the second semester. Under the current League program, this applies to participants in basketball and wrestling.
  - Second semester eligibility is determined by using the semester grade for courses taken during the first semester.
3. Handicapped students:
  - Students diagnosed as handicapped and being served in a non-diploma program shall be considered eligible for participation in interscholastic activities if he/she is successfully meeting the requirements of his/her IEP.
  - Students diagnosed as handicapped and being served in a program leading to a state high school diploma must meet all eligibility requirements previously stated for participation in interscholastic activities.
4. Terms defined:
  - Course — Any approved course of instruction in the secondary curriculum, required or elective, for which one unit of credit or its equivalent is awarded on a yearly basis or one-half unit of credit or its equivalent is awarded on a semester basis. If more than one unit of credit is awarded on a yearly basis in a particular course, this subject shall count as more than one course.
  - Academic Course — Those courses of instruction for which credit toward high school graduation is given. These may include required courses or approved electives.
  - Required Courses — Courses specifically mandated for a high school diploma.
  - Credit courses used for eligibility purposes must be courses that are applicable as credit toward a South Carolina High School Diploma. A student may also use college credit courses provided the student has met or is meeting all requirements for graduation.
  - Academic deficiencies may not be made up through enrollment in extension or correspondence schools or adult education programs.

## **SPECIAL EDUCATION**

Special education courses provide instruction in vocational, academic and functional skills to qualified students.

Students qualifying for special education services must meet requirements set forth by the South Carolina Department of Education as mandated by the Individuals with Disabilities Education Act.

Due process procedures are followed for eligibility and placement in special services programs. An individual educational plan (IEP) is developed for each student. Students in special education will be provided services in the least restrictive environment.

To be eligible to receive a South Carolina High School Diploma, students with special needs must meet graduation requirements (earn 24 units and pass all sections of the Exit Exam).

The Occupational Credential Program is a four-year certificate based program that provides job skill training and self-help skills to students in Grades 9–12. Functional skills are emphasized to promote a smooth transition from school to work. Students in more restrictive placements may obtain a district attendance credential.

# BEYOND HIGH SCHOOL

## COURSE REQUIREMENTS TO S.C. PUBLIC COLLEGES AND UNIVERSITIES

The Commission on Higher Education (CHE) establishes the minimum course requirements for students who plan to attend a public college in South Carolina. Some colleges require courses in addition to those listed below (see college catalogues for admission requirements).

For more information, please visit the Commission's Web site at [www.che.sc.gov](http://www.che.sc.gov).

### ENGLISH

Four units — At least two units must have strong grammar and composition components, at least one must be in English literature, and at least one must be in American literature. Completion of College Preparatory English 1, 2, 3 and 4 will meet this criterion.

### MATHEMATICS

Four units — including Algebra I (for which Algebra 1 Part One and Two may count together as a substitute, if a student successfully completes Algebra 2), Algebra 2, and Geometry. A fourth higher-level mathematics course should be selected from among Algebra 3/trigonometry, precalculus, calculus, probability and statistics, discrete mathematics, or a capstone mathematics course and should be taken during the senior year.

### LABORATORY SCIENCE

Three units — Two units must be taken in two different fields of the physical or life sciences and selected from among biology, chemistry, or physics. The third unit may be from the same field as one of the first two units (biology, chemistry or physics) or from any laboratory science for which biology and/or chemistry is a prerequisite.

It is strongly recommended that students desiring to pursue careers in science, mathematics, engineering or technology take one course in all three fields.

### WORLD LANGUAGE

Two units— Two levels of the same world language (some colleges require more)

### SOCIAL SCIENCES

Three units — One unit of U.S. History is required; a half unit of Economics and a half unit in Government are strongly recommended.

### FINE ARTS

One unit — One unit in appreciation, history or performance in one of the fine arts.

### PHYSICAL EDUCATION/JROTC

One unit — Physical education or JROTC

### ELECTIVE:

One unit must be taken as an elective. A college preparatory course in computer science (i.e., one involving significant programming content, not simply keyboarding) is strongly recommended for this elective. Other acceptable electives include college preparatory courses in English, fine arts, world languages, social science, humanities, laboratory science (excluding earth science, general physical science, general environmental science, or other introductory science courses for which biology and/or chemistry is not a prerequisite), or mathematics above the level of Algebra II.

## ACT, SAT, COMPASS AND ASSET

The American College Testing Assessment (ACT) and the Scholastic Aptitude Test (SAT) are tests used by college admission offices and scholarship selection committees as one of several indicators of students' potential to complete college level work successfully.

The ACT provides a measure of how well students can perform the skills necessary for college coursework. The ACT Assessment measures these skills in English, mathematics, reading and science reasoning. An optional writing test is also available. These areas are tested because they include the major areas of instruction in most high school and college programs.

The SAT-I (Scholastic Aptitude Test) is a multiple-choice test with critical reading, math and writing sections. Each section of the test has a score range of 200 to 800; thus the score range for the entire test is 600 to 2400.

Although a student's high school record is the single best predictor of potential for success in college, a combination of the high school record and SAT or ACT scores is a more reliable indicator.

The SAT-II is the name for the tests formerly referred to as Achievement Tests. Some colleges request that students take one or more of these tests for admission and/or placement. The SAT-II is given on the same dates and at the same time as the SAT-I except for the March, April test date. All SAT-II tests are one hour in length; therefore, students may take from one to three of the tests during any one administration of the SAT-I and SAT-II.

### COMPASS/ASSET

Two-year technical colleges require placement tests. The main purpose of the placement test is to help students identify strengths and needs, and to build a solid plan for success. The primary test used by Midlands Technical College is COMPASS. COMPASS (Computer-adapted Placement Assessment and Support Services) measures skills in reading, English and mathematics. COMPASS is available on the Midlands Technical College campus.

ASSET is a different placement test used by Midlands Technical College. It is only available in paper and pencil form. The ASSET test includes an essay, a reading comprehension section and a mathematics section.

## EDUCATIONAL LOTTERY SCHOLARSHIPS

The South Carolina legislature provides several opportunities for students to receive scholarships:

### PALMETTO FELLOWS

**Where Available:** Public and private four-year institutions

**Value:** Maximum of \$6,700

**Requirements:** 1200 SAT/27 ACT (through June), 3.5 GPA on Uniform Grading, top 6 percent of sophomore, junior or senior class OR 1400 SAT/32 ACT (through June), 4.0 GPA on Uniform Grading

## **LIFE SCHOLARSHIP**

**Where Available:** Public and private four-year colleges

**Value:** Up to \$5,000 (including a \$300 book allowance toward the cost of attendance)

**Requirements (two out of the three):** 3.0 GPA on Uniform Grading Scale, 1100 SAT/24 ACT, top 30 percent of graduating class

**Where Available:** Two-year public, two-year private and technical colleges

**Value:** Up to the cost of tuition plus \$300 book allowance

**Requirements:** B average (3.0 on Uniform Grading Scale)

## **HOPE SCHOLARSHIP**

**Where Available:** Public and private four-year colleges

**Value:** Maximum of \$2,500 plus \$300 book allowance

**Requirements:** 3.0 GPA

**Enhanced Awards:** Enhanced awards are available to students who meet the eligibility requirements for the Life Scholarship or Palmetto Fellows scholarships and major in special areas. For more information, visit the South Carolina Commission on Higher Education's Web site at [www.che.sc.gov](http://www.che.sc.gov) and click on CHE Approve Programs for Scholarship Enhancements.

## **LOTTERY TUITION ASSISTANCE**

**Where Available:** Public and private two-year colleges

**Value:** Portion of tuition (amount dependent on number of eligible participants and total funding available)

**Requirements:** South Carolina resident for at least one year; enrolled in at least six credit hours each semester toward a certificate degree, diploma program or Associate degree program; make satisfactory academic progress toward the completion of the program requirements; file a FAFSA

A student convicted of any felonies or any alcohol or drug-related misdemeanor offenses may lose the opportunity to receive a state scholarship or grant.

These requirements are subject to change by the State Legislature. You can find more information on the Internet at [www.che.sc.us](http://www.che.sc.us).

## **NCAA ELIGIBILITY REQUIREMENTS**

The National Collegiate Athletic Association has in force policies regarding athletic eligibility for Division I and Division II schools.

Specific information regarding core courses, minimum test scores and minimum GPA is listed below. Appendix C provides an NCAA Core GPA/Test Score Index.

Students planning to participate in athletics at Division I or Division II schools must be certificated by the NCAA Initial-Eligibility Clearinghouse. Students should apply for certification early in their senior year. Student Release Forms needed for this process are available in the athletic office, the school guidance office or the clearinghouse Web site: [www.eligibilitycenter.org](http://www.eligibilitycenter.org).

## **TEST SCORES**

Division I has a sliding scale for test score and grade-point average. The sliding scale for those requirements is shown in Appendix D.

Division II has no sliding scale. The minimum core grade-point average is 2.000. The minimum SAT score is 820 (verbal and math sections only) and the minimum ACT sum score is 68.

The SAT score used for NCAA purposes includes only the critical reading and math sections. The writing section of the SAT is not used.

The ACT score used for NCAA purposes is a sum of the four sections on the ACT: English, mathematics, reading and science.

All SAT and ACT scores must be reported directly to the NCAA Eligibility Center by the testing agency. Test scores that appear on transcripts will not be used. When registering for the SAT or ACT, use the Eligibility Center code of 9999 to make sure the score is reported to the Eligibility Center.

## **GRADE-POINT AVERAGE**

Only core courses are used in the calculation of the grade-point average.

Be sure to look at your high school's list of NCAA-approved core courses on the Eligibility Center's Web site ([www.eligibilitycenter.org](http://www.eligibilitycenter.org)) to make certain that courses being taken have been approved as core courses.

## **CORE COURSES DIVISION I**

NCAA Division I requires 16 core courses.

- Four years of English
- Three years of mathematics (Algebra I or higher)
- Two years of natural/physical science (1 year of lab if offered by high school)
- One year of additional English, mathematics or natural/physical science
- Two years of social science
- Four years of additional courses (from any area above, foreign language or comparative religion/philosophy)

## **CORE COURSES DIVISION II**

NCAA Division II requires 16 core courses.

- Three years of English
- Two years of mathematics (Algebra I or higher)
- Two years of natural/physical science (1 year of lab if offered by high school)
- Three years of additional English, mathematics or natural/physical science
- Two years of social science
- Four years of additional courses (from any area above, foreign language or comparative religion/philosophy)
- Note: The NCAA does not compute courses prior to ninth grade for eligibility purposes.

## **OTHER IMPORTANT INFORMATION**

- Students enrolling at an NCAA Division I or II institution for the first time need to also complete the amateurism questionnaire through the Eligibility Center Web site. Students need to request final amateurism certification prior to enrollment.
- For more information regarding the rules, go to [www.ncaa.org](http://www.ncaa.org). Click on "Academics and Athletes" then "Eligibility and Recruiting."
- If you have questions, call the NCAA Eligibility Center at 877-262-1492.

# ***CURRICULUM FRAMEWORK***

## ***OVERVIEW***

South Carolina high school students face many challenges—higher graduation standards, increasing college entrance requirements and growing workforce demands. For students to be successful, high schools must provide a curriculum that is challenging and relevant. They must also offer a sequence of courses to assist students in becoming passionate, lifelong learners.

A framework for curriculum planning aids students and their parents in this process. The curriculum framework used by Lexington One includes a rigorous curriculum design and a requirement that each student develop a challenging Individual Graduation Plan.

Working with their parents, counselors and teachers, students develop plans that include academic as well as profession-related courses. Their plans also identify extended learning opportunities that are designed to prepare students for transition to post-secondary education and the workplace.

Lexington One strives to provide a comprehensive curriculum to address the individual needs of all of our students. The framework provides a structure for planning and communicating high expectations.

## ***FRAMEWORK DESIGN***

A comprehensive curriculum framework includes the following elements: schools of study, clusters of study, majors for each cluster of study, and an Individual Graduation Plan (IGP). The IGP consists of the recommended curriculum and the template for each major.

A school of study is a way to organize the curriculum into broad program areas that are inter-related in nature and that relate to various professions and academic areas of study. There are five schools of study in our framework. A cluster of study is a means of organizing instruction and student experiences around broad categories that encompass virtually all occupations from entry level through professional levels. Clusters of study provide a way to organize and tailor coursework and learning experiences around areas of interests. Clusters of study are designed to provide a seamless transition from high school study to post-secondary study and/or the workforce. There are 16 clusters of study from which to choose.

A cluster of study has several majors. A major is designed to enable students to focus on an area of interest that motivates them to stay in school, to be better prepared for post-secondary choices and/or for the workplace. Each student who completes the requirements for a major will receive special recognition at graduation. A major consists of the completion of at least four required units of study in that area. It is recommended that students take at least one course at the highest level offered. The district's curriculum currently provides the opportunity to complete a major in more than 30 career areas.

## ***INDIVIDUAL GRADUATION PLAN***

The purpose of the Individual Graduation Plan (IGP) is to assist students and their parents in exploring educational and professional possibilities, and in making appropriate secondary and post-secondary decisions. It builds on the coursework, assessments and counseling in middle and high school. The IGP is not intended to reflect all aspects of the high school experience. School counselors begin working with students regarding interests, clusters of study, majors, post-secondary choices and high school options through individual and group counseling in the sixth grade. This includes information on academic and professional goals, career activities and access to career resources. Teacher and parental involvement throughout this process is vital. Students are never locked into a specific cluster or major. Students can change majors if their professional interests change. They can use the curriculum framework, with its schools of study, clusters of study and majors, and career assessment information in making these decisions.

## ***FRAMEWORK AND TEMPLATES***

A chart illustrating the district curriculum framework is provided on the next page. The following section contains the curriculum templates and identifies the courses required for each major.

# LEXINGTON ONE SECONDARY CURRICULUM FRAMEWORK

## SCHOOL OF ARTS AND HUMANITIES

### ARTS AND HUMANITIES CLUSTER

- Advanced Placement
- English
- Graphic Technology and Animation
- History
- International Baccalaureate
- Journalism and Broadcasting
- CAS—Media Arts, Design and Production
- Performing Arts
- Visual Arts
- World Languages
- CAS—World Languages and International Business

### EDUCATION AND TRAINING CLUSTER

- Teaching and Training

## SCHOOL OF BUSINESS, MANAGEMENT AND INFORMATION SYSTEMS

### BUSINESS, MANAGEMENT AND ADMINISTRATIVE CLUSTER

- Administrative Services
- Business Financial Management
- CAS—World Languages and International Business

### FINANCE CLUSTER

- Accounting

### HOSPITALITY AND TOURISM CLUSTER

- Restaurant and Food/Beverage Services

### INFORMATION TECHNOLOGY CLUSTER

- Programming and Software Development

### MARKETING SALES AND SERVICE CLUSTER

- Marketing Communications

### CENTERS FOR ADVANCED STUDY (CAS)

- Advanced Agribusiness Research (Pelion High)
- Public Health and Advanced Medical Studies (White Knoll High)
- Advanced STEM Studies (Lexington Technology Center)
- World Languages and International Business (Lexington High)
- Sustainable Solutions (Gilbert High)
- Law and Global Policy Development (River Bluff High)
- Media Arts, Design and Production (River Bluff High)

## SCHOOL OF ENGINEERING, MANUFACTURING AND INDUSTRIAL TECHNOLOGIES

### AGRICULTURE, FOOD AND NATURAL RESOURCES CLUSTER

- CAS—Advanced Agribusiness Research
- Agribusiness Systems
- Natural and Environmental Resources Management

### ARCHITECTURE AND CONSTRUCTION CLUSTER

- Architecture
- Construction
- CAS—Sustainable Design Solutions

### MANUFACTURING CLUSTER

- Maintenance, Installation and Repair
- Production

### SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS CLUSTER

- CAS—Advanced STEM Studies
- Computer Science and Engineering
- Electrical Engineering
- Environmental Engineering
- General Engineering
- Mathematics
- Science

### TRANSPORTATION, DISTRIBUTION AND LOGISTICS CLUSTER

- Automotive Vehicle Service, Maintenance and Body Repair

## SCHOOL OF HEALTH SCIENCE AND HUMAN SERVICES

### HEALTH SCIENCE CLUSTER

- Biotechnology Research and Development
- Diagnostic Services
- CAS—Public Health and Advanced Medical Studies
- Therapeutic Services

### HUMAN SERVICES CLUSTER

- Personal Care Services

## SCHOOL OF LEADERSHIP AND PUBLIC SERVICES

### GOVERNMENT AND PUBLIC ADMINISTRATION CLUSTER

- CAS—Law and Global Policy Development
- Global Leadership
- National Security

### LAW, PUBLIC SAFETY AND SECURITY CLUSTER

- Emergency and Fire Management
- Law Enforcement Services

# CURRICULUM TEMPLATES

## School of Arts and Humanities

Cluster of Study: Arts and Humanities

Major: Advanced Placement

Required Core for Graduation	SAMPLE CORE CHOICES			
	9	10	11	12
<b>English*</b> Four units	English 1	English 2	English 3	English 4
<b>Math*</b> Four units	Algebra 1	Algebra 2 or Geometry	Probability/Statistics, Geometry or Pre-Calculus	Pre-Calculus or Calculus
<b>Science*</b> Three units	Biology	Chemistry or Other Lab Science	Physics or Other Lab Science	Other Lab Science
<b>Social Studies</b> Three units	One unit of Social Studies		U.S. History	Economics/Government
<b>Additional Graduation Requirements</b>	Physical Education or JROTC (one unit) Computer Science (one unit) World Language or CATE (one unit) Health and Wellness (half unit)		Electives (seven units) Pass HSAP	
<b>Local Requirements</b>	Leadership for the 21st Century (9 <sup>th</sup> Grade)			
<b>Required Courses for Major</b> (Four credits required)	<b>Complementary Coursework</b>		<b>Extended Learning Opportunity Options Related to Major</b>	
Any four Advanced Placement courses	Extension courses linked to advanced placement courses  Any honors course that would complement area of interest		Career Mentoring Shadowing Internship Apprenticeship Cooperative Education Career Information Delivery System Exposure Senior Experience	

### Professional Opportunities Upon Graduation

High School Diploma	2-Year Associate Degree	4-Year Degree and Higher
Not applicable	Not applicable	College professor College dean CEO International entrepreneur

\*Course selection will depend on satisfying prerequisites.

# School of Arts and Humanities

Cluster of Study: Arts and Humanities

Major: English

Required Core for Graduation	SAMPLE CORE CHOICES			
	9	10	11	12
<b>English*</b> Four units	English 1	English 2	English 3	English 4
<b>Math*</b> Four units	Algebra 1	Algebra 2 or Geometry	Probability/Statistics, Geometry or Pre-Calculus	Pre-Calculus or Calculus
<b>Science*</b> Three units	Biology	Chemistry or Other Lab Science	Physics or Other Lab Science	Other Lab Science
<b>Social Studies</b> Three units	One unit of Social Studies		U.S. History	Economics/Government
<b>Additional Graduation Requirements</b>	Physical Education or JROTC (one unit) Computer Science (one unit) World Language or CATE (one unit) Health and Wellness (half unit)		Electives (seven units) Pass HSAP	
<b>Local Requirements</b>	Leadership for the 21st Century (9 <sup>th</sup> Grade)			
<b>Required Courses for Major</b> (Four credits required)	<b>Complementary Coursework</b>		<b>Extended Learning Opportunity Options Related to Major</b>	
English 3 Honors English 4 Honors AP English♦ IB English HL-2 # ENG 101 ENG 102 ENGL 101 ENGL 102 Advanced Composition and Creative Writing Public Speaking 1 Public Speaking 2 Honors Journalism courses above introductory level (1 credit only) Drama 2 Southern Literature or Film Studies	Journalism courses Teacher Cadet Fine Art courses Social Studies courses Latin courses Literary Moves		Career Mentoring Shadowing Internship Apprenticeship Cooperative Education Career Information Delivery System Exposure Senior Experience	

Professional Opportunities Upon Graduation		
High School Diploma	2-Year Associate Degree	4-Year Degree and Higher
Receptionist Sales Associate Library Assistant Clerical Assistant	Receptionist Sales Associate Library Assistant Clerical Assistant	Educator Public Relations Specialist Writer Editor

\*Course selection will depend on satisfying prerequisites.

♦Honors extension courses count toward the total units for a major.

# IB Diploma students only

# School of Arts and Humanities

Cluster of Study: Arts and Humanities

Major: Graphic Technology and Animation

Required Core for Graduation	SAMPLE CORE CHOICES			
	9	10	11	12
<b>English*</b> Four units	English 1	English 2	English 3	English 4
<b>Math*</b> Four units	Algebra 1	Algebra 2 or Geometry	Probability/Statistics, Geometry or Pre-Calculus	Pre-Calculus or Calculus
<b>Science*</b> Three units	Biology	Chemistry or Other Lab Science	Physics or Other Lab Science	Other Lab Science
<b>Social Studies</b> Three units	One unit of Social Studies		U.S. History	Economics/Government
<b>Additional Graduation Requirements</b>	Physical Education or JROTC (one unit) Computer Science (one unit) World Language or CATE (one unit) Health and Wellness (half unit)		Electives (seven units) Pass HSAP	
<b>Local Requirements</b>	Leadership for the 21st Century (9 <sup>th</sup> Grade)			
<b>Required Courses for Major</b> (Four credits required)	<b>Complementary Coursework</b>		<b>Extended Learning Opportunity Options Related to Major</b>	
Web Page Design 1 2-D Design 3-D Design Digital Art and Design 1 (2 units) Digital Art and Design 2 (2 units) Digital Imaging 2 Foundations of Animation Web Page Design 2 3-D Animation Broadcasting Production Broadcasting Editing Honors	Multimedia Visual Arts courses		Career Mentoring Shadowing Internship Apprenticeship Cooperative Education Career Information Delivery System Exposure Senior Experience	

Professional Opportunities Upon Graduation		
High School Diploma	2-Year Associate Degree	4-Year Degree and Higher
Graphics and Printing Equipment Operator Technical Computer Support Technician Camera Operator Desktop Publishing Specialist	Commercial Photographer Web Page Designer Commercial Graphics Technician Video Editor	Publisher Production Manager Graphic Designer Commercial Artist

\*Course selection will depend on satisfying prerequisites.

# School of Arts and Humanities

Cluster of Study: Arts and Humanities

Major: History

Required Core for Graduation	SAMPLE CORE CHOICES			
	9	10	11	12
<b>English*</b> Four units	English 1	English 2	English 3	English 4
<b>Math*</b> Four units	Algebra 1	Algebra 2 or Geometry	Probability/Statistics, Geometry or Pre- Calculus	Pre-Calculus or Calculus
<b>Science*</b> Three units	Biology	Chemistry or Other Lab Science	Physics or Other Lab Science	Other Lab Science
<b>Social Studies</b> Three units	One unit of Social Studies		U.S. History	Economics/Government
<b>Additional Graduation Requirements</b>	Physical Education or JROTC (one unit) Computer Science (one unit) World Language or CATE (one unit) Health and Wellness (half unit)		Electives (seven units) Pass HSAP	
<b>Local Requirements</b>	Leadership for the 21st Century (9 <sup>th</sup> Grade)			
<b>Required Courses for Major</b> (Four credits required)	<b>Complementary Coursework</b>		<b>Extended Learning Opportunity Options Related to Major</b>	
AP European History AP Human Geography AP US History AP World History Current Issues iCivics World Geography Honors World History Honors Art 101 – History and Appreciation of Art	English courses Teacher Cadet Psychology Sociology Journalism courses Art courses World language courses		Career Mentoring Shadowing Internship Apprenticeship Cooperative Education Career Information Delivery System Exposure Senior Experience	

Professional Opportunities Upon Graduation		
High School Diploma	2-Year Associate Degree	4-Year Degree and Higher
Museum Curator Educator Writer Researcher	Paralegal Media Center Assistant Research Assistant	College professor College dean CEO International entrepreneur

\*Course selection will depend on satisfying prerequisites.

◆ Honors extension courses count toward the total units for a major.

# School of Arts and Humanities

Cluster of Study: Arts and Humanities

Major: International Baccalaureate

Required Core for Graduation	SAMPLE CORE CHOICES			
	9	10	11	12
<b>English*</b> Four units	English 1	English 2	English 3	English 4
<b>Math*</b> Four units	Algebra 1	Algebra 2 or Geometry	Probability/Statistics, Geometry or Pre-Calculus	Pre-Calculus or Calculus
<b>Science*</b> Three units	Biology	Chemistry or Other Lab Science	Physics or Other Lab Science	Other Lab Science
<b>Social Studies</b> Three units	One unit of Social Studies		U.S. History	Economics/Government
<b>Additional Graduation Requirements</b>	Physical Education or JROTC (one unit) Computer Science (one unit) World Language or CATE (one unit) Health and Wellness (half unit)		Electives (seven units) Pass HSAP	
<b>Local Requirements</b>	Leadership for the 21st Century (9 <sup>th</sup> Grade)			
<b>Required Courses for Major</b> (Four credits required)	<b>Complementary Coursework</b>		<b>Extended Learning Opportunity Options Related to Major</b>	
Any four International Baccalaureate courses	Any honors course that would complement area of interest		Career Mentoring Shadowing Internship Apprenticeship Cooperative Education Career Information Delivery System Exposure Senior Experience	

Professional Opportunities Upon Graduation		
High School Diploma	2-Year Associate Degree	4-Year Degree and Higher
Not applicable	Not applicable	College professor College dean CEO International entrepreneur

\*Course selection will depend on satisfying prerequisites.

# School of Arts and Humanities

Cluster of Study: Arts and Humanities

Major: Journalism and Broadcasting

Required Core for Graduation	SAMPLE CORE CHOICES			
	9	10	11	12
<b>English*</b> Four units	English 1	English 2	English 3	English 4
<b>Math*</b> Four units	Algebra 1	Algebra 2 or Geometry	Probability/Statistics, Geometry or Pre-Calculus	Pre-Calculus or Calculus
<b>Science*</b> Three units	Biology	Chemistry or Other Lab Science	Physics or Other Lab Science	Other Lab Science
<b>Social Studies</b> Three units	One unit of Social Studies		U.S. History	Economics/Government
<b>Additional Graduation Requirements</b>	Physical Education or JROTC (one unit) Computer Science (one unit) World Language or CATE (one unit) Health and Wellness (half unit)		Electives (seven units) Pass HSAP	
<b>Local Requirements</b>	Leadership for the 21st Century (9 <sup>th</sup> Grade)			
<b>Required Courses for Major</b> (Four credits required)	<b>Complementary Coursework</b>		<b>Extended Learning Opportunity Options Related to Major</b>	
Two or more journalism courses above introductory level and Public Speaking 1 Public Speaking 2 Honors Advanced Composition and Creative Writing 1 Advanced Composition and Creative Writing 2 Media Arts 1 Media Arts 2	Multimedia Drama courses Fine Arts courses World Language courses Social Studies courses		Career Mentoring Shadowing Internship Apprenticeship Cooperative Education Career Information Delivery System Exposure Senior Experience	

Professional Opportunities Upon Graduation		
High School Diploma	2-Year Associate Degree	4-Year Degree and Higher
Disc Jockey Layout Designer Broadcast Technician Audio/Video Operator	Technical Writer Proofreader Reporter Sound Engineering Technician	Journalist Television Anchor Station Manager Media Specialist

\*Course selection will depend on satisfying prerequisites.

◆Honors extension courses count toward the total units for a major.

# School of Arts and Humanities

Cluster of Study: Arts and Humanities

Major: Performing Arts

Required Core for Graduation	SAMPLE CORE CHOICES			
	9	10	11	12
<b>English*</b> Four units	English 1	English 2	English 3	English 4
<b>Math*</b> Four units	Algebra 1	Algebra 2 or Geometry	Probability/Statistics, Geometry or Pre-Calculus	Pre-Calculus or Calculus
<b>Science*</b> Three units	Biology	Chemistry or Other Lab Science	Physics or Other Lab Science	Other Lab Science
<b>Social Studies</b> Three units	One unit of Social Studies		U.S. History	Economics/Government
<b>Additional Graduation Requirements</b>	Physical Education or JROTC (one unit) Computer Science (one unit) World Language or CATE (one unit) Health and Wellness (half unit)		Electives (seven units) Pass HSAP	
<b>Local Requirements</b>	Leadership for the 21st Century (9 <sup>th</sup> Grade)			
<b>Required Courses for Major</b> (Four credits required)	<b>Complementary Coursework</b>		<b>Extended Learning Opportunity Options Related to Major</b>	
Band courses Choral courses Drama courses above level one Dance courses above level one Orchestra courses Music courses	Social Studies courses World Language courses Fine Arts courses Cosmetology Carpentry Building Construction courses Public Speaking Teacher Cadet		Career Mentoring Shadowing Internship Apprenticeship Cooperative Education Career Information Delivery System Exposure Senior Experience	

Professional Opportunities Upon Graduation		
High School Diploma	2-Year Associate Degree	4-Year Degree and Higher
Musician/Accompanist Actor Singer Make-up Artist	Set Design Technician Costume Technician Sound/Lighting Technician Stage Electrician	Actor/Producer/Director Music Therapist Educator Choral Director

\*Course selection will depend on satisfying prerequisites.

# School of Arts and Humanities

Cluster of Study: Arts and Humanities

Major: Visual Arts

Required Core for Graduation	SAMPLE CORE CHOICES			
	9	10	11	12
<b>English*</b> Four units	English 1	English 2	English 3	English 4
<b>Math*</b> Four units	Algebra 1	Algebra 2 or Geometry	Probability/Statistics, Geometry or Pre- Calculus	Pre-Calculus or Calculus
<b>Science*</b> Three units	Biology	Chemistry or Other Lab Science	Physics or Other Lab Science	Other Lab Science
<b>Social Studies</b> Three units	One unit of Social Studies		U.S. History	Economics/Government
<b>Additional Graduation Requirements</b>	Physical Education or JROTC (one unit) Computer Science (one unit) World Language or CATE (one unit) Health and Wellness (half unit)		Electives (seven units) Pass HSAP	
<b>Local Requirements</b>	Leadership for the 21st Century (9 <sup>th</sup> Grade)			
<b>Required Courses for Major</b> (Four credits required)	<b>Complementary Coursework</b>		<b>Extended Learning Opportunity Options Related to Major</b>	
A minimum of two Visual Arts courses above introductory level Multimedia Digital Imaging 1 Digital Imaging 2	Foundations in Animation Social Studies courses Marketing courses Housing and Interiors Teacher Cadet		Career Mentoring Shadowing Internship Apprenticeship Cooperative Education Career Information Delivery System Exposure Senior Experience	

Professional Opportunities Upon Graduation		
High School Diploma	2-Year Associate Degree	4-Year Degree and Higher
Artist Photographer Craft Artist Florist	Cartoonist Graphic Illustrator Interior Designer Fashion Designer	Art Educator Photojournalist Curator/Gallery Manger Art Therapist

\*Course selection will depend on satisfying prerequisites.

# School of Arts and Humanities

Cluster of Study: Arts and Humanities

Major: World Languages

Required Core for Graduation	SAMPLE CORE CHOICES			
	9	10	11	12
<b>English*</b> Four units	English 1	English 2	English 3	English 4
<b>Math*</b> Four units	Algebra 1	Algebra 2 or Geometry	Probability/Statistics, Geometry or Pre-Calculus	Pre-Calculus or Calculus
<b>Science*</b> Three units	Biology	Chemistry or Other Lab Science	Physics or Other Lab Science	Other Lab Science
<b>Social Studies</b> Three units	One unit of Social Studies		U.S. History	Economics/Government
<b>Additional Graduation Requirements</b>	Physical Education or JROTC (one unit) Computer Science (one unit) World Language or CATE (one unit) Health and Wellness (half unit)		Electives (seven units) Pass HSAP	
<b>Local Requirements</b>	Leadership for the 21st Century (9 <sup>th</sup> Grade)			
<b>Required Courses for Major</b> (Four credits required)	<b>Complementary Coursework</b>		<b>Extended Learning Opportunity Options Related to Major</b>	
French 2, 3, 4, 5 or Spanish 2, 3, 4, 5 or German 2, 3, 4, 5 or Latin 1, 2, 3, 4 or Levels 2, 3 of one language; Levels 1, 2 of another language	Other World Languages Social Studies courses JROTC International Business and Marketing Fine Arts courses Teacher Cadet		Career Mentoring Shadowing Internship Apprenticeship Cooperative Education Career Information Delivery System Exposure Senior Experience	

Professional Opportunities Upon Graduation		
High School Diploma	2-Year Associate Degree	4-Year Degree and Higher
Not Applicable	Not Applicable	Educator Language Translator/Interpreter Business Consultant Military Intelligence

\*Course selection will depend on satisfying prerequisites.

◆Honors extension courses count toward the total units for a major.

# School of Arts and Humanities

Cluster of Study: Education and Training

Major: Teaching and Training

Required Core for Graduation	SAMPLE CORE CHOICES			
	9	10	11	12
<b>English*</b> Four units	English 1	English 2	English 3	English 4
<b>Math*</b> Four units	Algebra 1	Algebra 2 or Geometry	Probability/Statistics, Geometry or Pre-Calculus	Pre-Calculus or Calculus
<b>Science*</b> Three units	Biology	Chemistry or Other Lab Science	Physics or Other Lab Science	Other Lab Science
<b>Social Studies</b> Three units	One unit of Social Studies		U.S. History	Economics/Government
<b>Additional Graduation Requirements</b>	Physical Education or JROTC (one unit) Computer Science (one unit) World Language or CATE (one unit) Health and Wellness (half unit)		Electives (seven units) Pass HSAP	
<b>Local Requirements</b>	Leadership for the 21st Century (9 <sup>th</sup> Grade)			
<b>Required Courses for Major</b> (Four credits required)	<b>Complementary Coursework</b>		<b>Extended Learning Opportunity Options Related to Major</b>	
Teacher Cadet (Dual Credit) Psychology/Sociology Child Development 1 Child Development 2 Multimedia Public Speaking 1 AP or approved dual credit course of choice♦ Health Science 1	Advanced Composition and Creative Writing Fine Art courses JROTC Foods and Nutrition 1 Foods and Nutrition 2		Career Mentoring Shadowing Internship Apprenticeship Cooperative Education Career Information Delivery System Exposure Senior Experience	

Professional Opportunities Upon Graduation		
High School Diploma	2-Year Associate Degree	4-Year Degree and Higher
Docent Recreation/Fitness Trainer Day Care Provider Preschool Aide	Day Care Supervisor Instructional Assistant Substitute Teacher Training Manager	Educator Social Worker Counselor/Psychologist Human Resource Director

\*Course selection will depend on satisfying prerequisites.

♦Honors extension courses count toward the total units for a major.

School of Business, Management and Information Systems  
 Cluster of Study: Business, Management and Administration  
 Major: Administrative Services

Required Core for Graduation	SAMPLE CORE CHOICES			
	9	10	11	12
<b>English*</b> Four units	English 1	English 2	English 3	English 4
<b>Math*</b> Four units	Algebra 1	Algebra 2 or Geometry	Probability/Statistics, Geometry or Pre-Calculus	Pre-Calculus or Calculus
<b>Science*</b> Three units	Biology	Chemistry or Other Lab Science	Physics or Other Lab Science	Other Lab Science
<b>Social Studies</b> Three units	One unit of Social Studies		U.S. History	Economics/Government
<b>Additional Graduation Requirements</b>	Physical Education or JROTC (one unit) Computer Science (one unit) World Language or CATE (one unit) Health and Wellness (half unit)		Electives (seven units) Pass HSAP	
<b>Local Requirements</b>	Leadership for the 21st Century (9 <sup>th</sup> Grade)			
<b>Required Courses for Major</b> (Four credits required)	<b>Complementary Coursework</b>		<b>Extended Learning Opportunity Options Related to Major</b>	
Integrated Business Applications 1 Integrated Business Applications 2 Accounting 1 or Personal Finance Multimedia Web Page Design/Development 1 Web Page Design/Development 2 Info. Technology Foundations	Business Law Computer Programming Probability and Statistics Teacher Cadet		Career Mentoring Shadowing Internship Apprenticeship Cooperative Education Career Information Delivery System Exposure Senior Experience	

Professional Opportunities Upon Graduation		
High School Diploma	2-Year Associate Degree	4-Year Degree and Higher
Receptionist Information Processing Specialist Administrative Support Specialist Bookkeeper	Executive Assistant Office Manager Court Reporter	Educator Information Systems Manager Database Manager

\*Course selection will depend on satisfying prerequisites.

# School of Business, Management and Information Systems

Cluster of Study: Business,  
Management and Administration

Major: Business Financial  
Management

Required Core for Graduation	SAMPLE CORE CHOICES			
	9	10	11	12
<b>English*</b> Four units	English 1	English 2	English 3	English 4
<b>Math*</b> Four units	Algebra 1	Algebra 2 or Geometry	Probability/Statistics, Geometry or Pre- Calculus	Pre-Calculus or Calculus
<b>Science*</b> Three units	Biology	Chemistry or Other Lab Science	Physics or Other Lab Science	Other Lab Science
<b>Social Studies</b> Three units	One unit of Social Studies		U.S. History	Economics/Government
<b>Additional Graduation Requirements</b>	Physical Education or JROTC (one unit) Computer Science (one unit) World Language or CATE (one unit) Health and Wellness (half unit)		Electives (seven units) Pass HSAP	
<b>Local Requirements</b>	Leadership for the 21st Century (9 <sup>th</sup> Grade)			
<b>Required Courses for Major</b> (Four credits required)	<b>Complementary Coursework</b>		<b>Extended Learning Opportunity Options Related to Major</b>	
Any Statistics course and Integrated Business Applications 1 Integrated Business Applications 2 Accounting 1 AP Macroeconomics AP Microeconomics Virtual Enterprise	Web Page Design and Development Multimedia Marketing Entrepreneurship Accounting 2 Teacher Cadet		Career Mentoring Shadowing Internship Apprenticeship Cooperative Education Career Information Delivery System Exposure Senior Experience	

Professional Opportunities Upon Graduation		
High School Diploma	2-Year Associate Degree	4-Year Degree and Higher
Bookkeeping Clerk Medical Billing Clerk Payroll Clerk	Auditor Accountant Financial Services Agent Credit Manager	Educator Certified Public Accountant Financial Planner Chief Financial Officer

\*Course selection will depend on satisfying prerequisites.

# School of Business, Management and Information Systems

Cluster of Study: Finance

Major: Accounting

Required Core for Graduation	SAMPLE CORE CHOICES			
	9	10	11	12
<b>English*</b> Four units	English 1	English 2	English 3	English 4
<b>Math*</b> Four units	Algebra 1	Algebra 2 or Geometry	Probability/Statistics, Geometry or Pre-Calculus	Pre-Calculus or Calculus
<b>Science*</b> Three units	Biology	Chemistry or Other Lab Science	Physics or Other Lab Science	Other Lab Science
<b>Social Studies</b> Three units	One unit of Social Studies		U.S. History	Economics/Government
<b>Additional Graduation Requirements</b>	Physical Education or JROTC (one unit) Computer Science (one unit) World Language or CATE (one unit) Health and Wellness (half unit)		Electives (seven units) Pass HSAP	
<b>Local Requirements</b>	Leadership for the 21st Century (9 <sup>th</sup> Grade)			
<b>Required Courses for Major</b> (Four credits required)	<b>Complementary Coursework</b>		<b>Extended Learning Opportunity Options Related to Major</b>	
Accounting 1 Accounting 2 And any two of the following: Personal Finance Business Law Integrated Business Applications 1 Integrated Business Applications 2	Multimedia Web Page Design and Development Entrepreneurship Marketing courses		Career Mentoring Shadowing Internship Apprenticeship Cooperative Education Career Information Delivery System Exposure Senior Experience	

Professional Opportunities Upon Graduation		
High School Diploma	2-Year Associate Degree	4-Year Degree and Higher
Bill and Account Collector New Accounts Clerk Customer Service Representative	Loan Officer Loan Processor Credit Analyst Mortgage Underwriter	Branch Manager Insurance Agent Internal Auditor Operations Manager Title Research/Examiner

\*Course selection will depend on satisfying prerequisites.

# School of Business, Management and Information Systems

Cluster of Study: Hospitality and Tourism

Major: Restaurant and Food/Beverage Services

Required Core for Graduation	SAMPLE CORE CHOICES			
	9	10	11	12
<b>English*</b> Four units	English 1	English 2	English 3	English 4
<b>Math*</b> Four units	Algebra 1	Algebra 2 or Geometry	Probability/Statistics, Geometry or Pre-Calculus	Pre-Calculus or Calculus
<b>Science*</b> Three units	Biology	Chemistry or Other Lab Science	Physics or Other Lab Science	Other Lab Science
<b>Social Studies</b> Three units	One unit of Social Studies		U.S. History	Economics/Government
<b>Additional Graduation Requirements</b>	Physical Education or JROTC (one unit) Computer Science (one unit) World Language or CATE (one unit) Health and Wellness (half unit)		Electives (seven units) Pass HSAP	
<b>Local Requirements</b>	Leadership for the 21st Century (9 <sup>th</sup> Grade)			
Required Courses for Major (Four credits required)	Complementary Coursework		Extended Learning Opportunity Options Related to Major	
Culinary Arts 1 (2) Culinary Arts 2 (2) Hospitality, Management and Operations Foods and Nutrition 1 Foods and Nutrition 2 Accounting 1 Marketing 1	Entrepreneurship Personal Finance Accounting 2 Business Law Visual Arts courses Psychology/Sociology Public Speaking		Career Mentoring Shadowing Internship Apprenticeship Cooperative Education Career Information Delivery System Exposure Senior Experience	

Professional Opportunities Upon Graduation		
High School Diploma	2-Year Associate Degree	4-Year Degree and Higher
Cruise Ship Worker Front Desk Clerk Hostess Server	Caterer Cook Food and Beverage Services Manager Restaurant Manager	Chef Dietician/Nutritionist Hotel Manager Restaurant Manager (larger restaurants)

\*Course selection will depend on satisfying prerequisites.

# School of Business, Management and Information Systems

Cluster of Study: Information Technology

Major: Programming and Software Development

Required Core for Graduation	SAMPLE CORE CHOICES			
	9	10	11	12
<b>English*</b> Four units	English 1	English 2	English 3	English 4
<b>Math*</b> Four units	Algebra 1	Algebra 2 or Geometry	Probability/Statistics, Geometry or Pre-Calculus	Pre-Calculus or Calculus
<b>Science*</b> Three units	Biology	Chemistry or Other Lab Science	Physics or Other Lab Science	Other Lab Science
<b>Social Studies</b> Three units	One unit of Social Studies		U.S. History	Economics/Government
<b>Additional Graduation Requirements</b>	Physical Education or JROTC (one unit) Computer Science (one unit) World Language or CATE (one unit) Health and Wellness (half unit)		Electives (seven units) Pass HSAP	
<b>Local Requirements</b>	Leadership for the 21st Century (9 <sup>th</sup> Grade)			
<b>Required Courses for Major</b> (Four credits required)	<b>Complementary Coursework</b>		<b>Extended Learning Opportunity Options Related to Major</b>	
Computer Programming 1 Computer Programming 2 Web Page Design and Development 1 Web Page Design and Development 2 Information Technology Foundations AP Computer Science♦ Video Game Programming	Calculus Entrepreneurship		Career Mentoring Shadowing Internship Apprenticeship Cooperative Education Career Information Delivery System Exposure Senior Experience	

Professional Opportunities Upon Graduation		
High School Diploma	2-Year Associate Degree	4-Year Degree and Higher
PC Support Specialist Technical Support Specialist Web Site Maintenance Specialist	Web Designer Help Desk Specialist Network Administrator Computer Programmer	Systems Analyst Software Application Manager Computer Software Engineer Operations Research Analyst

\*Course selection will depend on satisfying prerequisites.

♦Honors extension courses count toward the total units for a major.

# School of Business, Management and Information Systems

Cluster of Study: Marketing Sales and Services

Major: Marketing Communications

Required Core for Graduation	SAMPLE CORE CHOICES			
	9	10	11	12
<b>English*</b> Four units	English 1	English 2	English 3	English 4
<b>Math*</b> Four units	Algebra 1	Algebra 2 or Geometry	Probability/Statistics, Geometry or Pre-Calculus	Pre-Calculus or Calculus
<b>Science*</b> Three units	Biology	Chemistry or Other Lab Science	Physics or Other Lab Science	Other Lab Science
<b>Social Studies</b> Three units	One unit of Social Studies		U.S. History	Economics/Government
<b>Additional Graduation Requirements</b>	Physical Education or JROTC (one unit) Computer Science (one unit) World Language or CATE (one unit) Health and Wellness (half unit)		Electives (seven units) Pass HSAP	
<b>Local Requirements</b>	Leadership for the 21st Century (9 <sup>th</sup> Grade)			
<b>Required Courses for Major</b> (Four credits required)	<b>Complementary Coursework</b>		<b>Extended Learning Opportunity Options Related to Major</b>	
Marketing Marketing Management  And any two below:  Sports and Entertainment Marketing 1 Sports and Entertainment Management Fashion Merchandising 1 Fashion Merchandising 2 Entrepreneurship Advertising Public Speaking Virtual Enterprise	Accounting courses Psychology/Sociology Visual Arts courses Public Speaking courses Drama courses		Career Mentoring Shadowing Internship Apprenticeship Cooperative Education Career Information Delivery System Exposure Senior Experience	

Professional Opportunities Upon Graduation		
High School Diploma	2-Year Associate Degree	4-Year Degree and Higher
Sales Associate Visual Display Artist Customer Service Representative	Advertising and Promotion Manager Retail Buyer Fashion Designer Marketing Specialist	Public Relations Manager Pharmaceutical Sales Representative Market Research Analyst Sports Agent

\*Course selection will depend on satisfying prerequisites.

School of Engineering, Manufacturing and Industrial Technologies  
 Cluster of Study: Agriculture, Food and Natural Resources Major: Agribusiness Systems

Required Core for Graduation	SAMPLE CORE CHOICES			
	9	10	11	12
<b>English*</b> Four units	English 1	English 2	English 3	English 4
<b>Math*</b> Four units	Algebra 1	Algebra 2 or Geometry	Probability/Statistics, Geometry or Pre-Calculus	Pre-Calculus or Calculus
<b>Science*</b> Three units	Biology	Chemistry or Other Lab Science	Physics or Other Lab Science	Other Lab Science
<b>Social Studies</b> Three units	One unit of Social Studies		U.S. History	Economics/Government
<b>Additional Graduation Requirements</b>	Physical Education or JROTC (one unit) Computer Science (one unit) World Language or CATE (one unit) Health and Wellness (half unit)		Electives (seven units) Pass HSAP	
<b>Local Requirements</b>	Leadership for the 21st Century (9 <sup>th</sup> Grade)			
<b>Required Courses for Major</b> (Four credits required)	<b>Complementary Coursework</b>		<b>Extended Learning Opportunity Options Related to Major</b>	
Agricultural and Environmental Science Agriculture Mechanics and Technology Nursery, Greenhouse, and Garden Center Technology Forestry Accounting 1 or Personal Finance Entrepreneurship Landscape Technology	Environmental and Marine Science Accounting courses Visual Arts courses		Career Mentoring Shadowing Internship Apprenticeship Cooperative Education Career Information Delivery System Exposure Senior Experience	

Professional Opportunities Upon Graduation		
High School Diploma	2-Year Associate Degree	4-Year Degree and Higher
Landscape Installer Garden Center Assistant	Lawn and Garden Center Manager Landscape Installation Business Owner Greenhouse Operations Manager Golf Course Superintendent	Agriculture Extension Agent Landscape Architect Agribusiness Manager Agricultural Economist

\*Course selection will depend on satisfying prerequisites.

# School of Engineering, Manufacturing and Industrial Technologies

Cluster of Study: Agriculture, Food and Natural Resources

Major: Natural and Environmental Resources Management

Required Core for Graduation	SAMPLE CORE CHOICES			
	9	10	11	12
<b>English*</b> Four units	English 1	English 2	English 3	English 4
<b>Math*</b> Four units	Algebra 1	Algebra 2 or Geometry	Probability/Statistics, Geometry or Pre-Calculus	Pre-Calculus or Calculus
<b>Science*</b> Three units	Biology	Chemistry or Other Lab Science	Physics or Other Lab Science	Other Lab Science
<b>Social Studies</b> Three units	One unit of Social Studies		U.S. History	Economics/Government
<b>Additional Graduation Requirements</b>	Physical Education or JROTC (one unit) Computer Science (one unit) World Language or CATE (one unit) Health and Wellness (half unit)		Electives (seven units) Pass HSAP	
<b>Local Requirements</b>	Leadership for the 21st Century (9 <sup>th</sup> Grade)			
<b>Required Courses for Major</b> (Four credits required)	<b>Complementary Coursework</b>		<b>Extended Learning Opportunity Options Related to Major</b>	
Environmental and Natural Resources 1 Environmental and Natural Resources 2 Agricultural and Environmental Science Forestry Wildlife Management Earth Science Agriculture Mechanics and Technology Environmental and Marine Science Outdoor Living	Biology Marketing courses		Career Mentoring Shadowing Internship Apprenticeship Cooperative Education Career Information Delivery System Exposure Senior Experience	

Professional Opportunities Upon Graduation		
High School Diploma	2-Year Associate Degree	4-Year Degree and Higher
Logger Hunting Guide Survey Technician Parks Grounds Maintenance Technician	Forestry Technician Wildlife Technician Water Quality Technician Soil Technician	Forester Wildlife Biologist Agricultural Engineer Conservation Officer

\*Course selection will depend on satisfying prerequisites.

# School of Engineering, Manufacturing and Industrial Technologies

Cluster of Study: Architecture and Construction

Major: Architecture

Required Core for Graduation	SAMPLE CORE CHOICES			
	9	10	11	12
<b>English*</b> Four units	English 1	English 2	English 3	English 4
<b>Math*</b> Four units	Algebra 1	Algebra 2 or Geometry	Probability/Statistics, Geometry or Pre-Calculus	Pre-Calculus or Calculus
<b>Science*</b> Three units	Biology	Chemistry or Other Lab Science	Physics or Other Lab Science	Other Lab Science
<b>Social Studies</b> Three units	One unit of Social Studies		U.S. History	Economics/Government
<b>Additional Graduation Requirements</b>	Physical Education or JROTC (one unit) Computer Science (one unit) World Language or CATE (one unit) Health and Wellness (half unit)		Electives (seven units) Pass HSAP	
<b>Local Requirements</b>	Leadership for the 21st Century (9 <sup>th</sup> Grade)			
<b>Required Courses for Major</b> (Four credits required)	<b>Complementary Coursework</b>		<b>Extended Learning Opportunity Options Related to Major</b>	
Mechanical Design 1 Architectural Design 1 Architectural Design 2 AP Physics ♦ 3-D Design Green Methods Honors Green Building Science	Building Construction courses Calculus Physics Visual Arts courses 3-D Solid Modeling		Career Mentoring Shadowing Internship Apprenticeship Cooperative Education Career Information Delivery System Exposure Senior Experience	

Professional Opportunities Upon Graduation		
High School Diploma	2-Year Associate Degree	4-Year Degree and Higher
Drafting Assistant Technical Illustrator Carpenter Construction Technician	CAD Technician Architectural Engineering Technician Civil Engineering Technician Engineering Design Technician	Architect Construction Engineer/Civil Environmental Engineer Mechanical Engineer

\*Course selection will depend on satisfying prerequisites.

♦Honors extension courses count toward the total units for a major.

# School of Engineering, Manufacturing and Industrial Technologies

Cluster of Study: Architecture and Construction

Major: Construction

Required Core for Graduation	SAMPLE CORE CHOICES			
	9	10	11	12
<b>English*</b> Four units	English 1	English 2	English 3	English 4
<b>Math*</b> Four units	Algebra 1	Algebra 2 or Geometry	Probability/Statistics, Geometry or Pre-Calculus	Pre-Calculus or Calculus
<b>Science*</b> Three units	Biology	Chemistry or Other Lab Science	Physics or Other Lab Science	Other Lab Science
<b>Social Studies</b> Three units	One unit of Social Studies		U.S. History	Economics/Government
<b>Additional Graduation Requirements</b>	Physical Education or JROTC (one unit) Computer Science (one unit) World Language or CATE (one unit) Health and Wellness (half unit)		Electives (seven units) Pass HSAP	
<b>Local Requirements</b>	Leadership for the 21st Century (9 <sup>th</sup> Grade)			
<b>Required Courses for Major</b> (Four credits required)	<b>Complementary Coursework</b>		<b>Extended Learning Opportunity Options Related to Major</b>	
Carpentry 1 and 2 or Building Construction 1 and 2	Introduction to Construction Technology Probability and Statistics Mechanical and Architectural Design courses Visual Arts courses Cabinet Making Green Methods Honors		Career Mentoring Shadowing Internship Apprenticeship Cooperative Education Career Information Delivery System Exposure Senior Experience	

Professional Opportunities Upon Graduation		
High School Diploma	2-Year Associate Degree	4-Year Degree and Higher
Drafting Assistant Technical Illustrator Carpenter Construction Technician	CAD Technician Architectural Engineering Technician Civil Engineering Technician Engineering Design Technician	Architect Construction Engineer/Civil Environmental Engineer Mechanical Engineer

\*Course selection will depend on satisfying prerequisites.

# School of Engineering, Manufacturing and Industrial Technologies

Cluster of Study: Manufacturing

Major: Maintenance, Installation and Repair

Required Core for Graduation	SAMPLE CORE CHOICES			
	9	10	11	12
<b>English*</b> Four units	English 1	English 2	English 3	English 4
<b>Math*</b> Four units	Algebra 1	Algebra 2 or Geometry	Probability/Statistics, Geometry or Pre-Calculus	Pre-Calculus or Calculus
<b>Science*</b> Three units	Biology	Chemistry or Other Lab Science	Physics or Other Lab Science	Other Lab Science
<b>Social Studies</b> Three units	One unit of Social Studies		U.S. History	Economics/Government
<b>Additional Graduation Requirements</b>	Physical Education or JROTC (one unit) Computer Science (one unit) World Language or CATE (one unit) Health and Wellness (half unit)		Electives (seven units) Pass HSAP	
<b>Local Requirements</b>	Leadership for the 21st Century (9 <sup>th</sup> Grade)			
<b>Required Courses for Major</b> (Four credits required)	<b>Complementary Coursework</b>		<b>Extended Learning Opportunity Options Related to Major</b>	
Electricity 1 (2 units) Electricity 2 (2 units)	Welding courses Machine Technology courses Physical Education courses Probability and Statistics Mechanical Design 1 3-D Solid Modeling		Career Mentoring Shadowing Internship Apprenticeship Cooperative Education Career Information Delivery System Exposure Senior Experience	

Professional Opportunities Upon Graduation		
High School Diploma	2-Year Associate Degree	4-Year Degree and Higher
Maintenance Assistant Electrical Helper	Maintenance Machinist Electrician HVAC Technician Maintenance Planner Systems Troubleshooter/ Technician	HVAC Systems Designer Mechanical Engineer Production Manager Industrial Engineer Electrical Engineer Maintenance Manager

\*Course selection will depend on satisfying prerequisites.

# School of Engineering, Manufacturing and Industrial Technologies

Cluster of Study: Manufacturing

Major: Production

Required Core for Graduation	SAMPLE CORE CHOICES			
	9	10	11	12
<b>English*</b> Four units	English 1	English 2	English 3	English 4
<b>Math*</b> Four units	Algebra 1	Algebra 2 or Geometry	Probability/Statistics, Geometry or Pre-Calculus	Pre-Calculus or Calculus
<b>Science*</b> Three units	Biology	Chemistry or Other Lab Science	Physics or Other Lab Science	Other Lab Science
<b>Social Studies</b> Three units	One unit of Social Studies		U.S. History	Economics/Government
<b>Additional Graduation Requirements</b>	Physical Education or JROTC (one unit) Computer Science (one unit) World Language or CATE (one unit) Health and Wellness (half unit)		Electives (seven units) Pass HSAP	
<b>Local Requirements</b>	Leadership for the 21st Century (9 <sup>th</sup> Grade)			
<b>Required Courses for Major</b> (Four credits required)	<b>Complementary Coursework</b>		<b>Extended Learning Opportunity Options Related to Major</b>	
Machine Technology 1 (2 units) Machine Technology 2 (2 units) or Welding 1 (2 units) Welding 2 (2 units)	Mechanical and Architectural design courses Small Engine Technology courses Welding 3 (2 units)		Career Mentoring Shadowing Internship Apprenticeship Cooperative Education Career Information Delivery System Exposure Senior Experience	

Professional Opportunities Upon Graduation		
High School Diploma	2-Year Associate Degree	4-Year Degree and Higher
Drill Press Operator Band Saw Operator Shop Helper Production Machine Operator	Machinist CNC Operator Manufacturing Machinery Technician Tool and Die Maker	Design Engineer Manufacturing Engineer Metallurgist Quality Control Engineer

\*Course selection will depend on satisfying prerequisites.

# School of Engineering, Manufacturing and Industrial Technologies

Cluster of Study: Science, Technology,  
Engineering and Mathematics

Major: Computer  
Science Engineering

Required Core for Graduation	SAMPLE CORE CHOICES			
	9	10	11	12
<b>English*</b> Four units	English 1	English 2	English 3	English 4
<b>Math*</b> Four units	Algebra 1	Algebra 2 or Geometry	Probability/Statistics, Geometry or Pre-Calculus	Pre-Calculus or Calculus
<b>Science*</b> Three units	Biology	Chemistry or Other Lab Science	Physics or Other Lab Science	Other Lab Science
<b>Social Studies</b> Three units	One unit of Social Studies		U.S. History	Economics/Government
<b>Additional Graduation Requirements</b>	Physical Education or JROTC (one unit) Computer Science (one unit) World Language or CATE (one unit) Health and Wellness (half unit)		Electives (seven units) Pass HSAP	
<b>Local Requirements</b>	Leadership for the 21st Century (9 <sup>th</sup> Grade)			
<b>Required Courses for Major</b> (Four credits required)	<b>Complementary Coursework</b>		<b>Extended Learning Opportunity Options Related to Major</b>	
Computer Programming 1 and 2 or Web Page Design and Development 1 and 2  Select two from the list below: AP Computer Science ♦ Calculus AP Calculus ♦ Video Game Programming MAT 140 MAT 141 MATH 141 MATH 142	Information Technology Foundations		Career Mentoring Shadowing Internship Apprenticeship Cooperative Education Career Information Delivery System Exposure Senior Experience	

Professional Opportunities Upon Graduation		
High School Diploma	2-Year Associate Degree	4-Year Degree and Higher
Not applicable	Engineering Transfer Credit	Computer Software Engineer Computer Systems Analyst Network Systems Analyst Chief Information Officer

\*Course selection will depend on satisfying prerequisites.

♦Honors extension courses count toward the total units for a major.

# School of Engineering, Manufacturing and Industrial Technologies

Cluster of Study: Science, Technology,  
Engineering and Mathematics

Major: Electrical Engineering

Required Core for Graduation	SAMPLE CORE CHOICES			
	9	10	11	12
<b>English*</b> Four units	English 1	English 2	English 3	English 4
<b>Math*</b> Four units	Algebra 1	Algebra 2 or Geometry	Probability/Statistics, Geometry or Pre- Calculus	Pre-Calculus or Calculus
<b>Science*</b> Three units	Biology	Chemistry or Other Lab Science	Physics or Other Lab Science	Other Lab Science
<b>Social Studies</b> Three units	One unit of Social Studies		U.S. History	Economics/ Government
<b>Additional Graduation Requirements</b>	Physical Education or JROTC (one unit) Computer Science (one unit) World Language or CATE (one unit) Health and Wellness (half unit)		Electives (seven units) Pass HSAP	
<b>Local Requirements</b>	Leadership for the 21st Century (9 <sup>th</sup> Grade)			
<b>Required Courses for Major</b> (Four credits required)	<b>Complementary Coursework</b>		<b>Extended Learning Opportunity Options Related to Major</b>	
Introduction to Engineering Mechanical Design Engineering Technology Honors Electronics for Engineers Honors	3D Solid Modeling Electricity 1 Calculus AP Calculus Physics AP Physics		Career Mentoring Shadowing Internship Apprenticeship Cooperative Education Career Information Delivery System Exposure Senior Experience	

Professional Opportunities Upon Graduation		
High School Diploma	2-Year Associate Degree	4-Year Degree and Higher
Not applicable	Engineering Transfer Credit	Electrical Engineer Bioengineer Chemical Engineer Environmental Engineer Civil Engineer Mechanical Engineer

\*Course selection will depend on satisfying prerequisites.

School of Engineering, Manufacturing and Industrial Technologies  
 Cluster of Study: Science, Technology, Engineering and Mathematics  
 Major: Environmental Engineering

Required Core for Graduation	SAMPLE CORE CHOICES			
	9	10	11	12
<b>English*</b> Four units	English 1	English 2	English 3	English 4
<b>Math*</b> Four units	Algebra 1	Algebra 2 or Geometry	Probability/Statistics, Geometry or Pre-Calculus	Pre-Calculus or Calculus
<b>Science*</b> Three units	Biology	Chemistry or Other Lab Science	Physics or Other Lab Science	Other Lab Science
<b>Social Studies</b> Three units	One unit of Social Studies		U.S. History	Economics/Government
<b>Additional Graduation Requirements</b>	Physical Education or JROTC (one unit) Computer Science (one unit) World Language or CATE (one unit) Health and Wellness (half unit)		Electives (seven units) Pass HSAP	
<b>Local Requirements</b>	Leadership for the 21st Century (9 <sup>th</sup> Grade)			
<b>Required Courses for Major</b> (Four credits required)	<b>Complementary Coursework</b>		<b>Extended Learning Opportunity Options Related to Major</b>	
Introduction to Engineering Mechanical Design Engineering Technology Honors Green Methods Honors AP Environmental Science◆	Environmental and Marine Science Calculus AP Calculus Physics AP Physics		Career Mentoring Shadowing Internship Apprenticeship Cooperative Education Career Information Delivery System Exposure Senior Experience	

Professional Opportunities Upon Graduation		
High School Diploma	2-Year Associate Degree	4-Year Degree and Higher
Not applicable	Engineering Transfer Credit Environmental Engineer Technician	Environmental Engineer Bioengineer Chemical Engineer Electrical Engineer Civil Engineer Mechanical Engineer

\*Course selection will depend on satisfying prerequisites.  
 ◆Honors extension courses count toward the total units for a major.

School of Engineering, Manufacturing and Industrial Technologies  
 Cluster of Study: Science, Technology, Engineering and Mathematics  
 Major: General Engineering

Required Core for Graduation	SAMPLE CORE CHOICES			
	9	10	11	12
<b>English*</b> Four units	English 1	English 2	English 3	English 4
<b>Math*</b> Four units	Algebra 1	Algebra 2 or Geometry	Probability/Statistics, Geometry or Pre-Calculus	Pre-Calculus or Calculus
<b>Science*</b> Three units	Biology	Chemistry or Other Lab Science	Physics or Other Lab Science	Other Lab Science
<b>Social Studies</b> Three units	One unit of Social Studies		U.S. History	Economics/Government
<b>Additional Graduation Requirements</b>	Physical Education or JROTC (one unit) Computer Science (one unit) World Language or CATE (one unit) Health and Wellness (half unit)		Electives (seven units) Pass HSAP	
<b>Local Requirements</b>	Leadership for the 21st Century (9 <sup>th</sup> Grade)			
<b>Required Courses for Major</b> (Four credits required)	<b>Complementary Coursework</b>		<b>Extended Learning Opportunity Options Related to Major</b>	
Introduction to Engineering Mechanical Design 3D Solid Modeling Engineering Technology Honors	Environmental and Marine Science Calculus AP Calculus Physics AP Physics		Career Mentoring Shadowing Internship Apprenticeship Cooperative Education Career Information Delivery System Exposure Senior Experience	

Professional Opportunities Upon Graduation		
High School Diploma	2-Year Associate Degree	4-Year Degree and Higher
Not applicable	Engineering Transfer Credit Environmental Engineer Technician	Environmental Engineer Bioengineer Chemical Engineer Electrical Engineer Civil Engineer Mechanical Engineer

\*Course selection will depend on satisfying prerequisites.  
 ♦Honors extension courses count toward the total units for a major.

School of Engineering, Manufacturing and Industrial Technologies **Major: Mathematics**  
 Cluster of Study: Science, Technology, Engineering and Mathematics

Required Core for Graduation	SAMPLE CORE CHOICES			
	9	10	11	12
<b>English*</b> Four units	English 1	English 2	English 3	English 4
<b>Math*</b> Four units	Algebra 1	Algebra 2 or Geometry	Probability/Statistics, Geometry or Pre-Calculus	Pre-Calculus or Calculus
<b>Science*</b> Three units	Biology	Chemistry or Other Lab Science	Physics or Other Lab Science	Other Lab Science
<b>Social Studies</b> Three units	One unit of Social Studies		U.S. History	Economics/Government
<b>Additional Graduation Requirements</b>	Physical Education or JROTC (one unit) Computer Science (one unit) World Language or CATE (one unit) Health and Wellness (half unit)		Electives (seven units) Pass HSAP	
<b>Local Requirements</b>	Leadership for the 21st Century (9 <sup>th</sup> Grade)			
<b>Required Courses for Major</b> (Four credits required)	<b>Complementary Coursework</b>		<b>Extended Learning Opportunity Options Related to Major</b>	
Pre-Calculus AP Statistics♦ Calculus or AP Calculus♦ Probability and Statistics Accounting 2 Algebra 3 Physics MAT 140 MAT 141 MATH 140 MATH 141 MATH 241 MATH 544	Chemistry Auto CAD courses Introduction to Pre-Engineering Technology		Career Mentoring Shadowing Internship Apprenticeship Cooperative Education Career Information Delivery System Exposure Senior Experience	

Professional Opportunities Upon Graduation		
High School Diploma	2-Year Associate Degree	4-Year Degree and Higher
Accounts Clerk Bookkeeper	Accountant Tax Preparer Logistics/Scheduler	Stock Broker/Financial Planner Educator Statistician Software/Hardware Designer Accountant/Controller/Auditor Analyst

\*Course selection will depend on satisfying prerequisites.  
 ♦Honors extension courses count toward the total units for a major.

# School of Engineering, Manufacturing and Industrial Technologies

Cluster of Study: Science, Technology,  
Engineering and Mathematics

Major: Science

Required Core for Graduation	SAMPLE CORE CHOICES			
	9	10	11	12
<b>English*</b> Four units	English 1	English 2	English 3	English 4
<b>Math*</b> Four units	Algebra 1	Algebra 2 or Geometry	Probability/Statistics, Geometry or Pre- Calculus	Pre-Calculus or Calculus
<b>Science*</b> Three units	Biology	Chemistry or Other Lab Science	Physics or Other Lab Science	Other Lab Science
<b>Social Studies</b> Three units	One unit of Social Studies		U.S. History	Economics/Government
<b>Additional Graduation Requirements</b>	Physical Education or JROTC (one unit) Computer Science (one unit) World Language or CATE (one unit) Health and Wellness (half unit)		Electives (seven units) Pass HSAP	
<b>Local Requirements</b>	Leadership for the 21st Century (9 <sup>th</sup> Grade)			
<b>Required Courses for Major</b> (Four credits required)	<b>Complementary Coursework</b>		<b>Extended Learning Opportunity Options Related to Major</b>	
Astronomy and Space Science Anatomy and Physiology Biology 2 AP Biology◆ IB Biology HL-2 # Environmental and Marine Science AP Environmental Science◆ Physics 1 Honors AP Physics◆ IB Physics HL-2 # Chemistry 1 Honors Chemistry 2 AP Chemistry◆ IB Chemistry HL-2 # CHM 110 CHM 111	Environmental and Natural Resources courses World Languages Calculus Green Methods Honors		Career Mentoring Shadowing Internship Apprenticeship Cooperative Education Career Information Delivery System Exposure Senior Experience	
<b>Professional Opportunities Upon Graduation</b>				
<b>High School Diploma</b>	<b>2-Year Associate Degree</b>		<b>4-Year Degree and Higher</b>	
Environmental Assistant Landscaper Zoo Attendant Production Worker Entry Level Lab Technician Entry Level Quality Technician Assistant Materials Handler	Forestry Technician Veterinarian Assistant Lab Technician Engineer Technician Pharmacy Technician Forensics Technician		Chemist Educator Physicist Meteorologist Ecologist Forensics Specialist Packaging Engineer Biologist	

\*Course selection will depend on satisfying prerequisites.

◆Honors extension courses count toward the total units for a major.

#IB Diploma students only.

# School of Engineering, Manufacturing and Industrial Technologies

Cluster of Study: Transportation,  
Distribution and Logistics

Major: Auto. Vehicle Service, Maintenance  
and Body Repair

Required Core for Graduation	SAMPLE CORE CHOICES			
	9	10	11	12
<b>English*</b> Four units	English 1	English 2	English 3	English 4
<b>Math*</b> Four units	Algebra 1	Algebra 2 or Geometry	Probability/Statistics, Geometry or Pre- Calculus	Pre-Calculus or Calculus
<b>Science*</b> Three units	Biology	Chemistry or Other Lab Science	Physics or Other Lab Science	Other Lab Science
<b>Social Studies</b> Three units	One unit of Social Studies		U.S. History	Economics/Government
<b>Additional Graduation Requirements</b>	Physical Education or JROTC (one unit) Computer Science (one unit) World Language or CATE (one unit) Health and Wellness (half unit)		Electives (seven units) Pass HSAP	
<b>Local Requirements</b>	Leadership for the 21st Century (9 <sup>th</sup> Grade)			
<b>Required Courses for Major</b> (Four credits required)	<b>Complementary Coursework</b>		<b>Extended Learning Opportunity Options Related to Major</b>	
Automotive Technology 1 and 2 or Automotive Collision Repair Technology 1 and 2 or Power Equipment Technology 1 and 2	Welding courses Accounting courses Marketing courses Physics		Career Mentoring Shadowing Internship Apprenticeship Cooperative Education Career Information Delivery System Exposure Senior Experience	

Professional Opportunities Upon Graduation		
High School Diploma	2-Year Associate Degree	4-Year Degree and Higher
Maintenance Technician Bus Driver Auto Body Preparation Technician Mechanic Helper	Service Technician Automotive Technician Mechanic Auto Body Painter	Mechanical Engineer Automotive Design Engineer Automotive Business Entrepreneur

\*Course selection will depend on satisfying prerequisites.

# School of Health Science and Human Services

Cluster of Study: Health Science

Major: Biotechnology Research and Development

Required Core for Graduation	SAMPLE CORE CHOICES			
	9	10	11	12
<b>English*</b> Four units	English 1	English 2	English 3	English 4
<b>Math*</b> Four units	Algebra 1	Algebra 2 or Geometry	Probability/Statistics, Geometry or Pre-Calculus	Pre-Calculus or Calculus
<b>Science*</b> Three units	Biology	Chemistry or Other Lab Science	Physics or Other Lab Science	Other Lab Science
<b>Social Studies</b> Three units	One unit of Social Studies		U.S. History	Economics/Government
<b>Additional Graduation Requirements</b>	Physical Education or JROTC (one unit) Computer Science (one unit) World Language or CATE (one unit) Health and Wellness (half unit)		Electives (seven units) Pass HSAP	
<b>Local Requirements</b>	Leadership for the 21st Century (9 <sup>th</sup> Grade)			
Required Courses for Major (Four credits required)	Complementary Coursework	Extended Learning Opportunity Options Related to Major		
Chemistry 2 Biology 2 Anatomy and Physiology AP Biology♦ AP Chemistry♦ Health Science 2 Health Science 3 Foundations in Biotechnology Pharmacy Technology AHS 102 (Medical Terminology) CHM 110	Psychology/Sociology Calculus Latin courses Sports Medicine courses Health Science Clinical Study AP Statistics	Career Mentoring Shadowing Internship Apprenticeship Cooperative Education Career Information Delivery System Exposure Senior Experience		

Professional Opportunities Upon Graduation		
High School Diploma	2-Year Associate Degree	4-Year Degree and Higher
Not Applicable	Radiographer Lab Technician Health Information Technologist Nuclear Medicine Technologist	Medical Researcher Physician or Dentist Forensic Scientist Pathologist

\*Course selection will depend on satisfying prerequisites.

♦Honors extension courses count toward the total units for a major.

# School of Health Science and Human Services

Cluster of Study: Health Science

Major: Diagnostic Services

Required Core for Graduation	SAMPLE CORE CHOICES			
	9	10	11	12
<b>English*</b> Four units	English 1	English 2	English 3	English 4
<b>Math*</b> Four units	Algebra 1	Algebra 2 or Geometry	Probability/Statistics, Geometry or Pre-Calculus	Pre-Calculus or Calculus
<b>Science*</b> Three units	Biology	Chemistry or Other Lab Science	Physics or Other Lab Science	Other Lab Science
<b>Social Studies</b> Three units	One unit of Social Studies		U.S. History	Economics/Government
<b>Additional Graduation Requirements</b>	Physical Education or JROTC (one unit) Computer Science (one unit) World Language or CATE (one unit) Health and Wellness (half unit)		Electives (seven units) Pass HSAP	
<b>Local Requirements</b>	Leadership for the 21st Century (9 <sup>th</sup> Grade)			
<b>Required Courses for Major</b> (Four credits required)	<b>Complementary Coursework</b>		<b>Extended Learning Opportunity Options Related to Major</b>	
Health Science 1 and 2 Health Science 3 (or exemption courses: PLTW Human Body Systems, Medical Terminology, Anatomy and Physiology or AP Biology) Health Science Clinical Study Honors (2 units)  or  Health Science 2 Health Science 3 (or exemption courses: PLTW Human Body Systems, Medical Terminology, Anatomy and Physiology or AP Biology) Health Science Internship Clinical Medical Terminology or AHS 102 (Medical Terminology)	Latin courses Sports Medicine courses Chemistry courses		Career Mentoring Shadowing Internship Apprenticeship Cooperative Education Career Information Delivery System Exposure Senior Experience	
<b>Professional Opportunities Upon Graduation</b>				
<b>High School Diploma</b>	<b>2-Year Associate Degree</b>		<b>4-Year Degree and Higher</b>	
Certified Nursing Assistant Home Health Assistant Nursing Aide Unit/Ward Secretary	Dental Assistant or Hygienist Medical Laboratory Technician Phlebotomist Respiratory Therapist Technician		Nurse Therapist Health Care Administrator Nurse Practitioner	

\*Course selection will depend on satisfying prerequisites.

# School of Health Science and Human Services

Cluster of Study: Health Science

Major: Therapeutic Services

Required Core for Graduation	SAMPLE CORE CHOICES			
	9	10	11	12
<b>English*</b> Four units	English 1	English 2	English 3	English 4
<b>Math*</b> Four units	Algebra 1	Algebra 2 or Geometry	Probability/Statistics, Geometry or Pre-Calculus	Pre-Calculus or Calculus
<b>Science*</b> Three units	Biology	Chemistry or Other Lab Science	Physics or Other Lab Science	Other Lab Science
<b>Social Studies</b> Three units	One unit of Social Studies		U.S. History	Economics/Government
<b>Additional Graduation Requirements</b>	Physical Education or JROTC (one unit) Computer Science (one unit) World Language or CATE (one unit) Health and Wellness (half unit)		Electives (seven units) Pass HSAP	
<b>Local Requirements</b>	Leadership for the 21st Century (9 <sup>th</sup> Grade)			
<b>Required Courses for Major</b> (Four credits required)	<b>Complementary Coursework</b>		<b>Extended Learning Opportunity Options Related to Major</b>	
Sports Medicine 1 Sports Medicine 2 Sports Medicine Clinical (required)❖  and  One of the following: Clinical Medical Terminology or AHS 102 (Medical Terminology) Anatomy and Physiology	Biology 2 AP Biology♦ Latin courses Chemistry courses Health Science 3 Pharmacy for Medical Careers		Career Mentoring Shadowing Internship Apprenticeship Cooperative Education Career Information Delivery System Exposure Senior Experience	

Professional Opportunities Upon Graduation		
High School Diploma	2-Year Associate Degree	4-Year Degree and Higher
Personal Trainer Physical Therapy Aide Pharmacy Aide Occupational Therapy Aide	Physical Therapy Assistant Pharmacy Technician Occupational Therapy Assistant Surgical Technician	Athletic Trainer Physical Therapist Orthopedic Surgeon Sports Psychologist Chiropractor

\*Course selection will depend on satisfying prerequisites.

♦Honors extension courses count toward the total units for a major.

❖This work-based credit internship must include a rotation with a physician or other sports medicine specialists as a supervisor for a minimum of six full weeks (60 hours).

# School of Health Science and Human Services

Cluster of Study: Human Services

Major: Personal Care Services

Required Core for Graduation	SAMPLE CORE CHOICES			
	9	10	11	12
<b>English*</b> Four units	English 1	English 2	English 3	English 4
<b>Math*</b> Four units	Algebra 1	Algebra 2 or Geometry	Probability/Statistics, Geometry or Pre-Calculus	Pre-Calculus or Calculus
<b>Science*</b> Three units	Biology	Chemistry or Other Lab Science	Physics or Other Lab Science	Other Lab Science
<b>Social Studies</b> Three units	One unit of Social Studies		U.S. History	Economics/Government
<b>Additional Graduation Requirements</b>	Physical Education or JROTC (one unit) Computer Science (one unit) World Language or CATE (one unit) Health and Wellness (half unit)		Electives (seven units) Pass HSAP	
<b>Local Requirements</b>	Leadership for the 21st Century (9 <sup>th</sup> Grade)			
<b>Required Courses for Major</b> (Four credits required)	<b>Complementary Coursework</b>		<b>Extended Learning Opportunity Options Related to Major</b>	
Cosmetology 1/2 (4 units) Cosmetology 3/4 (4 units)	Visual Arts courses Psychology/Sociology Marketing courses Business courses Chemistry Anatomy and Physiology		Career Mentoring Shadowing Internship Apprenticeship Cooperative Education Career Information Delivery System Exposure Senior Experience	

Professional Opportunities Upon Graduation		
High School Diploma	2-Year Associate Degree	4-Year Degree and Higher
Cosmetologist Nail Technician Skin Care/Make-up Artist <b>(State board certification/ license may be required)</b>	Not Applicable	Educator <b>(State board certification required for cosmetology license)</b>

\*Course selection will depend on satisfying prerequisites.

School of Leadership and Public Services  
 Cluster of Study: Government and Public Administration

Major: Global Leadership

Required Core for Graduation	SAMPLE CORE CHOICES			
	9	10	11	12
<b>English*</b> Four units	English 1	English 2	English 3	English 4
<b>Math*</b> Four units	Algebra 1	Algebra 2 or Geometry	Probability/Statistics, Geometry or Pre-Calculus	Pre-Calculus or Calculus
<b>Science*</b> Three units	Biology	Chemistry or Other Lab Science	Physics or Other Lab Science	Other Lab Science
<b>Social Studies</b> Three units	One unit of Social Studies		U.S. History	Economics/Government
<b>Additional Graduation Requirements</b>	Physical Education or JROTC (one unit) Computer Science (one unit) World Language or CATE (one unit) Health and Wellness (half unit)		Electives (seven units) Pass HSAP	
<b>Local Requirements</b>	Leadership for the 21st Century (9 <sup>th</sup> Grade)			
<b>Required Courses for Major</b> (Four credits required)	<b>Complementary Coursework</b>		<b>Extended Learning Opportunity Options Related to Major</b>	
Global Leadership for the 21st Century  and  three of the following: Public Speaking I iCivics Entrepreneurship AP Human Geography One JROTC course above level one	Public Speaking 2 Teacher Cadet AP European History AP World History		Career Mentoring Shadowing Internship Apprenticeship Cooperative Education Career Information Delivery System Exposure Senior Experience	
<b>Professional Opportunities Upon Graduation</b>				
<b>High School Diploma</b>	<b>2-Year Associate Degree</b>		<b>4-Year Degree and Higher</b>	
Not applicable	Not applicable		CEO Community Leader Cultural Liason International entrepreneur	

\*Course selection will depend on satisfying prerequisites.

School of Leadership and Public Services  
 Cluster of Study: Government and Public Administration

Major: National Security

Required Core for Graduation	SAMPLE CORE CHOICES			
	9	10	11	12
<b>English*</b> Four units	English 1	English 2	English 3	English 4
<b>Math*</b> Four units	Algebra 1	Algebra 2 or Geometry	Probability/Statistics, Geometry or Pre-Calculus	Pre-Calculus or Calculus
<b>Science*</b> Three units	Biology	Chemistry or Other Lab Science	Physics or Other Lab Science	Other Lab Science
<b>Social Studies</b> Three units	One unit of Social Studies		U.S. History	Economics/Government
<b>Additional Graduation Requirements</b>	Physical Education or JROTC (one unit) Computer Science (one unit) World Language or CATE (one unit) Health and Wellness (half unit)		Electives (seven units) Pass HSAP	
<b>Local Requirements</b>	Leadership for the 21st Century (9 <sup>th</sup> Grade)			
<b>Required Courses for Major</b> (Four credits required)	<b>Complementary Coursework</b>		<b>Extended Learning Opportunity Options Related to Major</b>	
JROTC Aerospace three units plus honors JROTC Naval Science 1, 2, 3, 4 Army JROTC Leadership, Education and Training 2, 3, 4, 5	Business Law Law Education Psychology/Sociology World Language courses Current Issues Physical Education courses		Career Mentoring Shadowing Internship Apprenticeship Cooperative Education Career Information Delivery System Exposure Senior Experience	

Professional Opportunities Upon Graduation		
High School Diploma	2-Year Associate Degree	4-Year Degree and Higher
Law Enforcement Officer Military Recruit Military Recruiter Correctional Officer	Law Enforcement Officer Military Recruit Military Recruiter Correctional Officer	Military Officer FBI Agent Federal Marshal Secret Service Agent

\*Course selection will depend on satisfying prerequisites.

# School of Leadership and Public Services

Cluster of Study: Law, Public Safety and Security

Major: Emergency and Fire Management

Required Core for Graduation	SAMPLE CORE CHOICES			
	9	10	11	12
<b>English*</b> Four units	English 1	English 2	English 3	English 4
<b>Math*</b> Four units	Algebra 1	Algebra 2 or Geometry	Probability/Statistics, Geometry or Pre-Calculus	Pre-Calculus or Calculus
<b>Science*</b> Three units	Biology	Chemistry or Other Lab Science	Physics or Other Lab Science	Other Lab Science
<b>Social Studies</b> Three units	One unit of Social Studies		U.S. History	Economics/Government
<b>Additional Graduation Requirements</b>	Physical Education or JROTC (one unit) Computer Science (one unit) World Language or CATE (one unit) Health and Wellness (half unit)		Electives (seven units) Pass HSAP	
<b>Local Requirements</b>	Leadership for the 21st Century (9 <sup>th</sup> Grade)			
Required Courses for Major (Four credits required)	Complementary Coursework		Extended Learning Opportunity Options Related to Major	
Emergency and Fire Management Services 1 (2 units) Emergency and Fire Management Services 2 (2 units) Emergency Responder	Physics Chemistry courses Physical Education courses World Language courses Criminal Justice		Career Mentoring Shadowing Internship Apprenticeship Cooperative Education Career Information Delivery System Exposure Senior Experience	

Professional Opportunities Upon Graduation		
High School Diploma	2-Year Associate Degree	4-Year Degree and Higher
Firefighter Dispatcher Police Officer	Emergency Medical Technician Firefighter Supervisor	Emergency Management and Response Coordinator Emergency Planning Manager Arson Investigator Fire Chief

\*Course selection will depend on satisfying prerequisites.

# School of Leadership and Public Services

Cluster of Study: Law, Public Safety and Security

Major: Law Enforcement Services

Required Core for Graduation	SAMPLE CORE CHOICES			
	9	10	11	12
<b>English*</b> Four units	English 1	English 2	English 3	English 4
<b>Math*</b> Four units	Algebra 1	Algebra 2 or Geometry	Probability/Statistics, Geometry or Pre-Calculus	Pre-Calculus or Calculus
<b>Science*</b> Three units	Biology	Chemistry or Other Lab Science	Physics or Other Lab Science	Other Lab Science
<b>Social Studies</b> Three units	One unit of Social Studies		U.S. History	Economics/Government
<b>Additional Graduation Requirements</b>	Physical Education or JROTC (one unit) Computer Science (one unit) World Language or CATE (one unit) Health and Wellness (half unit)		Electives (seven units) Pass HSAP	
<b>Local Requirements</b>	Leadership for the 21st Century (9 <sup>th</sup> Grade)			
<b>Required Courses for Major</b> (Four credits required)	<b>Complementary Coursework</b>		<b>Extended Learning Opportunity Options Related to Major</b>	
Law Enforcement Services 1 (2 units) Law Enforcement Services 2 (2 units) Emergency Responder	Business Law Law Education Psychology/Sociology World Language courses Current Issues Physical Education courses JROTC Criminal Justice		Career Mentoring Shadowing Internship Apprenticeship Cooperative Education Career Information Delivery System Exposure Senior Experience	

Professional Opportunities Upon Graduation		
High School Diploma	2-Year Associate Degree	4-Year Degree and Higher
Police Officer Dispatcher Correctional Officer Magistrate	Paralegal Detective Crime Lab Technician State Trooper	Criminologist FBI Agent Federal Marshal Secret Service Agent

\*Course selection will depend on satisfying prerequisites.



# Schools of the Future — Now!

**Goal: To prepare a new generation of leaders and global citizens**

**Description of 21st century graduates:**

- Self-directed in learning and life
- Academically confident and competent/sophisticated in 21st century skills
- Think critically and creatively/innovative
- Communicate effectively
- Problem solve
- Collaborate
- Possess a broad global view of their world
- Speak multiple languages
- Care and integrity

## What is the Lexington One Schools of the Future — Now! initiative?

When you think of the Lexington One 21st century graduate, picture individuals who take charge of their own learning, challenge themselves to stretch their academic abilities, think critically and creatively, communicate effectively, problem solve, collaborate, possess a broad view of their world, and are multilingual.

The Lexington County School District One Schools of the Future — Now! initiative prepares students to be a new generation of leaders and global citizens. That means our graduates will possess the necessary skills to compete, contribute and succeed locally and globally, and will be well-equipped to meet the anticipated needs of jobs, challenges and technologies that currently do not exist.

## Why is the Schools of the Future — Now! initiative important?

At one time, integration of new ideas and technology took decades. Now, scientific and technological advances are introduced at a speed never before seen. Information can be shared around the world in seconds. Computers and cell phones connect the most remote locations. Knowledge and the ability to innovate has become the commodity that is valued and produces wealth.

The world is moving faster than the current education system. Preparing children to live and prosper in a 21st century global environment while using 20th century learning models will not work.

Change is necessary to ensure that students in Lexington One remain competitive in a shifting international economy and global landscape. The Schools of the Future — Now! initiative equips students with the tools, the perspective and the skills to adapt and succeed.



# Centers for Advanced Study

## Each center will:

- Enhance motivation
- Stress preparation for post-secondary work
- Allow for cutting-edge opportunities
- Provide interaction with experts in the field
- Develop research skills
- Allow for self-directed learning
- Prepare a new generation of leaders and global citizens

## What are the Centers for Advanced Study?

Each high school and the Lexington Technology Center house a Center for Advanced Study to provide students with focused knowledge and skills at the advanced level.

Four Centers opened in 2011-12:

- Advanced Agribusiness Research at Pelion High School
- Advanced STEM Studies at Lexington Technology Center
- Public Health and Advanced Medical Studies at White Knoll High School
- World Languages and International Business at Lexington High School

Three Centers opened in 2013-14:

- The Center for Sustainable Solutions at Gilbert High School
- The Center for Law and Global Policy Development at River Bluff High School
- The Center for Media Arts, Design and Production at River Bluff High School

Students at each Center explore advanced coursework for two to three years (depending on the Center) for a half day all year long. Center students have many opportunities for self-directed learning. They have opportunities to develop their research skills, pursue a deeper understanding of a subject area of their own interest, and interact with experts in their particular field of study. Each Center focuses on preparation for post-secondary study and careers through specialized research projects and externships (work-based experiences that are short in duration). Such cutting edge opportunities enhance student motivation to become academically confident and competent.

## What is the focus of the centers?

- Integrated learning
- Problem-solving, critical thinking and innovation
- Deep understanding of subject area tied to student's interests
- Specialized technology
- Collaborative learning
- Project management
- 21st century global issues
- Internships and externships

# Center for Advanced Agribusiness Research



The Center for Advanced Agribusiness Research at Pelion High School prepares students to pursue post-secondary studies and careers in the field of agribusiness. The Center is open to all juniors and seniors in Lexington One. Students spend a total of two 90-minute blocks within the Center (half a day) each semester. The Center curriculum allows students to pursue studies beyond the normal agriculture curriculum and includes internships, externships and research opportunities. The greenhouse, hydroponics lab and on-site agriculture field provide students with a self-directed learning opportunity to conduct research for their capstone senior project. Developed with partnerships from Clemson University as well as many local agribusinesses, the center affords graduates with opportunities for scholarships and college recruitment. Students are able to develop leadership and professional skills through participation in FFA activities.

## Center Completer Requirements

In order to be recognized as a Center Completer, students must successfully complete at least six of the eight possible units:

<b>Agribusiness and Marketing HN</b>	— 1 Unit
<b>Botany HN</b>	— 1 Unit
<b>Probability and Statistics HN (Focus on Agribusiness)*</b>	— 1 Unit
<b>Technology and Power in Agribusiness HN</b>	— 1 Unit
<b>Agricultural Management and Research HN</b>	— 1 Unit
<b>AP Environmental Science and Extension HN</b>	— 2 Unit
<b>AGR 201 Sustainable Agriculture</b>	— .5 Unit (Dual Credit)
<b>AGR 211 Agriculture Calculations</b>	— .5 Unit (Dual Credit)

\***Spanish 3 HN (Business in the Spanish Speaking World)** may be substituted for any of the above courses.

\***Pre Calculus HN (Focus on Agribusiness)** may be substituted for Probability and Statistics HN

## Suggested Course Sequence

### Freshman:

English: 1 HN/CP or 2HN/CP  
 Math: Algebra 1 or 2 HN/CP  
 Science: Biology 1 HN/CP  
 Social Studies: World History HN/CP  
 Physical Education 1  
 Computer Science Elective  
 Fine Arts Elective  
 Leadership 21

### Junior:

English: 3 HN/CP or 4 HN/CP  
 Math: P/S HN/AP (Center) or  
 Pre-Calculus CP/HN  
 Science: Botany HN (Center)  
 Social Studies: US History AP  
 World Language 3 HN  
 Agribusiness & Marketing HN (Center)  
 Technology and Power in  
 Agribusiness HN (Center)

### Sophomore:

English: 2 HN/CP or 3 HN/CP  
 Math: Geometry and/or Algebra 2  
 Science: Chemistry  
 Social Studies: Gov/Econ  
 World Language 1 and 2  
 Two Electives

### Senior:

English: 4 HN/CP or AP  
 Math: Calculus CP/AP  
 Science: AP Environmental Science &  
 Extension HN (Center)  
 Social Studies: Course of Choice  
 Agricultural Management and  
 Research HN (Center)  
 AGR 201 and 211 (Dual Credit/Center)

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## 11th-Grade Courses

### **Agribusiness & Marketing Honors**      **56002HW** **Grade 11**      **1 unit**

This course introduces students to the business strategies involved in agribusiness marketing and management. Students are exposed to the decision-making skills and economic principles involved in the many facets of agribusiness. They read case studies involving private industry, government, and businesses and become familiar with the organization, operation, and management skills of production. Students also complete a Capstone project and have opportunities to interact with guest speakers, participate in field studies, and complete externships connected to local agribusiness partners.

### **Botany Honors**      **329915HW** **Grade 11**      **1 unit CHE Lab Credit** **Prerequisite:** Biology 1; Chemistry 1 (completed or concurrent)

This course is designed to teach students the science involved in plant anatomy and physiology. Students learn the importance of soil chemistry and composition as it relates to the growth of plants. Students investigate the life processes of plants, as well as conventional and innovative growing techniques using the soils and hydroponics labs. Students are also introduced to experimental research using the principles of experimental design. Instruction includes hands-on experiences analyzing soils, calculating and applying soil amendments for optimal crop growth, and designing and conducting experiments using the agricultural scientific research lab and the hydroponics green house. This course has been approved by the State Department of Education as a science elective credit.

### **Probability & Statistics Honors**      **414100HW** **(focus on Agribusiness)** **Grade 11**      **1 unit**

This course includes the study of probability, statistics and discrete mathematics topics using common agribusiness examples and problems. Students engage in the collection, organization, display, analysis and interpretation of data. Topics such as sequences, series, matrices, vectors, mathematical induction, and special graphs are applied to solve problems. Fundamentals of inferential statistics and hypothesis testing are studied. In addition to traditional computational methods, students use graphing calculators and/or computer software as tools for problem solving.

### **Technology and Power in** **Agribusiness Honors**      **562101HW** **Grade 11**      **1 unit**

This course is designed to teach students the operation and maintenance of technological equipment commonly used in agribusiness. Typical instructional activities include hands-on experiences with agricultural power units, large machinery operation and calibration, precision farming equipment, and the science behind the functioning of these and other agribusiness technologies.

## 12th-Grade Courses

### **Agricultural Management** **and Research Honors**      **561401HW** **Grade 12**      **1 unit**

This course prepares students to operate enterprises producing various crops such as cereal grain, small fruits, vegetables, and other plant products and includes instruction in soils, plant physiology, crop cultivation practices, plant diseases, pest management, harvesting, and marketing.

### **Advanced Placement** **Environmental Science**      **327700AW** **Grade 12**      **1 unit CHE Lab Credit**

**Prerequisite:** Biology 1, Chemistry 1  
**Requirement:** AP Environmental Science Exam, Environmental Science Extension Honors linked course, summer/reading assignment

This course is designed to be the equivalent of a one semester introductory college course in environmental science. The goal of the course is to provide students with scientific principles, concepts and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems and to examine alternative solutions for resolving and/or preventing them. The College Board determines the course description; therefore, the content of this course must adhere to those requirements. This course is linked to a required extension honors course.

### **Environmental Science** **Extension Honors (for Advanced Placement** **Environmental Science)**      **327702HW** **Grade 12**      **1 unit**

This course is a required link to Advanced Placement Environmental Science and is only open to those students enrolled in that course.

### **AGR 201—Sustainable Agriculture**      **569906EH** **Grade 12**      **.5 unit**

This course provides an evaluation of the main goals of sustainable agriculture to include environmental health, economic profitability and social and economic equity. Students evaluate management and technological approaches and policies that influence agricultural practices.

### **AGR 211—Agriculture Calculations**      **569907EH** **Grade 12**      **.5 unit**

This course is a study of the mathematical applications in crop and livestock production, agribusiness and financial management. Mastery of the concepts assist students in understanding the importance of such applications in the agricultural industry.



# Center for Law and Global Policy Development



The Center for Law and Global Policy Development at River Bluff High School features a curriculum developed closely with area international policy and legal professionals to ensure that students' experiences are grounded in an understanding of the process involved in the creation of public policy, as well as the practical application of law. This curriculum is built around case studies involving social, environmental and economic issues impacting citizens on the local, national and international levels. In addition, students learn how to apply the technological skills needed to navigate the professional needs of policy creation/implementation and legal research/practice. The Center for Law and Global Policy Development has as its focus the understanding that public service is the aim of policy and legal professions.

Recommendation: Students applying to the Center are recommended to have completed one World Language credit before entering the freshman year. The Center is open to all juniors and seniors in Lexington One. Students will spend a half-day within the Center each semester.

## Center Completer Requirements

To be recognized as a Center Completer, students must complete at least six Center courses:

AP US History—1 unit	AP American Government—1 unit
US History Extension—1unit	Global Policy— 1 unit
Current Controversies & International Relations—1 unit	Legal and Policy Debate—1 unit
Law & Justice—1 unit	Law and Policy Practicum—1 unit

## Suggested Course Sequence

### Freshman Year

English: English 1 HN/CP or 2 HN/CP  
 Math: Algebra 1 or 2 HN/CP  
 Science: Biology 1 HN/CP  
 Social Studies: AP Human Geography  
 Physical Education 1  
 Computer Science or Fine Arts Elective  
 Leadership 21/Personal Health & Wellness  
 World Language

### Sophomore Year

English: English 2 HN/CP or 3 HN/CP  
 Math: AP Statistics or P/S CP  
 or Geometry HN/CP  
 Science: Chemistry HN/CP  
 Social Studies: Government/Economics  
 World Language  
 Fine Arts Elective  
 and two additional electives

### Junior Year

English: English 3 CP or 4 AP/CP  
 Math: Pre-Calculus HN/CP  
 Science: Physics HN/CP  
 Social Studies & Center Courses:  
 AP US History  
 US History Extension Honors  
 Current Controversies and International  
 Relations  
 Law & Justice  
 World Language

### Senior Year

English: English 4 CP or 5 AP  
 Math: Calculus AP/CP  
 Science: AP Environmental Science  
 Social Studies & Center Courses: AP Macro  
 economics and/or AP Microeconomics  
 AP American Government  
 Global Policy Honors  
 Legal and Policy Debate  
 Law and Policy Practicum

## 11th Grade

**AP U.S. History (focus on Law & Policy)** **337250AW**  
**Grade 11** **1 unit**

**Requirements:** Students take the AP U.S. History Exam. The S.C. End-of-Course Examination program requires students taking this course to take the U.S. History End-of-Course Test, summer reading/assignment.

This course provides students with a learning experience equivalent to that obtained in college introductory United States history courses. Students examine major historical developments from the age of discovery to the present. This course is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with problems and materials in United States history. Emphasis is placed on analyzing historical data, synthesizing evidence and evaluating the ideas of others as students develop the ability to express themselves with clarity and precision when writing essays. The College Board determines the course description; therefore, the content of this course must adhere to those requirements. This course is linked to a required one-unit honors course.

**U.S. History Extension Honors** **337250HW**  
**Grade 11** **1 unit**

This course is a required link to Advanced Placement U.S. History and is only open to those students enrolled in that course.

**Current Controversies & International Relations Honors** **339932HW**  
**Grade 11** **1 unit**

Students in this Center are challenged to think globally while fostering an understanding of the United States' position in the world. This course focuses on the principal forces and factors influencing world affairs, with an emphasis on the role the United States plays in issues such as: human rights, economics, terrorism, the environment and drug trafficking. Students create portfolios based on international relations topics that can be used and built upon in subsequent Center courses.

**Law & Justice Honors** **339933HW**  
**Grade 11** **1 unit**

In this course, which uses the methodology of project-based learning, students take the role of attorneys at a law firm who must recommend whether or not to take a case that is going to the Supreme Court. Students review the facts of the case, consider pro and con sides of the issue, and analyze the potential effects of precedents established by the courts. Students learn the balance needed between individual rights and the public good, the need for an independent judiciary, the rule of law, the concept of judicial review and the principle that the bill of rights limits the power of the Federal

### Contact Information:

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## 12th Grade

**AP American Government** **337350AW**  
**Grade 12** **1 unit**

**Requirement:** Advanced Placement American Government Exam, summer reading/assignment

This course provides students with a comprehensive critical perspective on American government and politics. Students develop analytic perspectives for interpreting, understanding and explaining political events in this country. The course provides students with a learning experience equivalent to that obtained in most college introductory U.S. government and politics courses. The College board determines the course description; therefore, the content of this course must adhere to those requirements.

**Global Policy Honors** **339934HW**  
**Grade 12** **1 unit**

To remain competitive in a global society, students need to understand how global issues affect their own country and local community. This seminar-based course uses case studies to research the role of global policy in addressing problems and challenges that face the world (poverty, conflict, injustice and inequality). Students create policy solutions based on their research, culminating in presentations and debates focused on the proposed solutions.

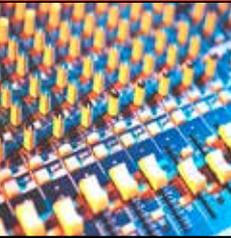
**Legal and Policy Debate Honors** **339935HW**  
**Grade 12** **1 unit**

The ability to persuade others through effective argumentation is a critical skill to master in the development of effective leadership. In this course, students develop an understanding of both the criminal and civil trial processes, from mediation to mock trial, as they assume the various roles played by the participants in the court system. Students also become well versed in a wide range of policy topics through resources such as Project Citizen (Center for Civic Education) and the study of sociology, foreign affairs, economic policy and domestic politics. Students work on important skills, such as public speaking, critical thinking, negotiation, communication, debating and team building.

**Law and Policy Practicum Honors** **339936HW**  
**Grade 12** **1 unit**

In this capstone course, students have the opportunity to increase their knowledge of substantive areas of law and policy by gaining firsthand exposure to careers in these areas through shadowing experiences, externships/internships and guest speakers. Students create portfolios centered on their individual interests in these areas that contain case studies, research and a drafted policy proposal which students defend to an expert panel.

# Center for Media Arts, Design and Production



The Center for Media Arts, Design, and Production at River Bluff High School offers students the opportunity to craft works that link technological skill to their creative energies. The Center offers experiences in music technology and recording, television and video production, technical theater, digital photography and motion media design. The Center is open to all juniors and seniors in Lexington One. Students spend a total of a half day within the Center each semester. Students and faculty collaborate with each other and with other professionals on projects that are shared in a variety of venues inside and outside of RBHS. Students also develop practical skills applicable to almost any career including: critical analysis, research, teamwork, flexibility, perseverance, and the ability to meet deadlines. The relationship between the fine arts, technology and business, as well as the creative collaboration required to be successful in the Media Arts, Design and Production industries, are at the core of students' experiences in this Center for Advanced Study.

## Areas of Emphasis

**Music Technology and Recording**  
**Motion Media Design (Opening 2015-16)**  
**Television and Video Production**  
**Technical Theatre (Opening 2014-15)**  
**Digital Photography**

## Center Completer Requirements

### Junior Year

- Two Level 1 courses in chosen Area of Emphasis (2 credits)
- One Level 1 Center Comprehensive—Fluid Design Honors (1 credit)

### Senior Year

- Two Level 2 courses in chosen Area of Emphasis (2 credits)
- One Level 2 Center Comprehensive—Production Practicum (1 credit)

\*Student must meet any prerequisites for the optional course.  
 To be recognized as a Center Completer, students must complete at least six Center courses.

## Music Technology and Recording

Students considering this area of emphasis should have some prior experience in music performance or composition.

### Level 1

#### Sound Design & Recording Honors Grade 11

459926HW

1 unit

Students explore audio hardware and software. They are introduced to MIDI (Music Instrument Digital Interface) sequencing applications. Topics include in-studio recording techniques, live sound amplification, micing, effects processors, and equalization. Students develop mixing board fluency and engineering techniques.

#### Digital Music Technology Honors Grade 11

459927HW

1 unit

Students extend their knowledge of the computer, the electronic keyboard (synthesizer), and MIDI sequencing techniques. They are introduced to music theory, notation software and recording software.

### Level 2

#### Advanced Sound Design & Recording Honors Grade 12

459933HW

1 unit

Students extend their knowledge and skill in MIDI sequencing techniques, study and apply recording techniques and track-mixing techniques, and work with hardware and software designed for synchronizing music to video. Additionally, students explore careers associated with the music industry, such as producer and engineer.

#### Advanced Digital Music Production Honors Grade 12

459934HW

1 unit

Students study music theory, expanding their understanding and use of compositional techniques including harmonization, part writing, orchestration, and arranging. Students further their skills in sequencing and recording techniques using latest hardware and software. Projects may include but are not limited to producing jingles for radio, commercials for TV, soundtracks for video and/or short films and CD/DVD portfolios. Additionally, students explore careers associated with the music industry, such as producer and engineer.

## Motion Media Design

### Level 1

#### Components of Virtual Reality Honors Grade 11

529903HW

1 unit

Students learn what VR (Virtual Reality) is from a big picture view of the principles, methods and applications of VR, AR (Augmented Reality) and related topics. Students learn the three I's of Virtual Reality—immersion, interaction and imagination. Students also study the properties of VR, which include synthetically generated environments, moving in time, space and scale and the “being there” effect or what is sometimes called the “suspension of disbelief”.

#### VR Input and Output Devices Honors Grade 11

529904HW

1 unit

**Prerequisite:** Mechanical Design  
Students learn to build and to design user interfaces, as well as using trackers, navigation, three-dimensional sound and display systems. Students learn the concepts of human visual system and visual perception, field of view, differentiation of color, flicker, contrast, depth and distance perception, binocular cues and monocular clues, pattern recognition, optical illusions, edge filtering and blending. Students also study a variety of input devices such as passive and active visual, auditory and haptic input.

### Level 2

#### 3-D Graphics, Modeling, & Gaming Honors Grade 12

1 unit

Students learn about rendering, scanning and VR software in this course. They process the conversion of 3D geometrical models of a virtual world into a scene presented to the user using a variety of software rendering systems. Topics of study include polygonal rendering of real time graphics, non-uniform rational B-splines (NURBS), fractal geometry and constructive solid geometry (CSG), as well as illumination and creating photorealistic images.

#### Augmented Reality Honors Grade 12

1 unit

This course provides the opportunity for students to work with an emerging technology, understanding the current types of head mounted see-through transparent and video mix displays, as well as projector based AR and Monitor-based AR for mixing real images and computer graphics. Topics of study may also include heads-up displays, IR Cameras, Night-Vision systems, pocket/Pico projectors, smart phone projector-camera systems, holograms, monitor based AR, wearable computing, mobile AR systems and spatial augmented reality. Students conduct research in areas such as AR applications for design, decoration, tourism (virtual Post-it- notes) services, AR for the blind and endless gaming apps.

## Television and Video Production

### Level 1

#### Media Technology 1: Elements of Television & Video Honors

612400HW

Grade 11

1 unit

Students learn the skills needed to enter the television and video production industries. They develop skills in theory, practice and operations of equipment related to a television studio, the portable camera and video editing. Students also learn the principles of picture composition, script writing, lighting, remote shooting and directing. Through problem-solving activities, projects, and discussions, students demonstrate how video and film affect life and society.

#### Media Technology 2: Short Form Honors Grade 11

612500HW

1 unit

Students are immersed in short form video production while also researching film and television theory/criticism. Students are expected to develop the technical, analytical and critical foundations necessary in the pre-production, production and post-production phases by combining theory and hands-on exercises in producing non-narrative videos and commercials.

### Level 2

#### Media Technology 3: Long Form Honors Grade 12

529919HW

1 unit

Students perform at an independent level of proficiency to build upon prerequisite skills to produce narrative videos and news magazine-style productions based on local, national and international events. Students employ and polish the pre-production, production and post-production skills developed in Level 1 courses.

#### Media Technology 4: Television & Video Craft Honors Grade 12

529920HW

1 unit

This course provides the advanced video production student the chance to pursue independent study in video production. Students perform at an independent level of proficiency to build upon prerequisite skills as they are required to analyze, evaluate and synthesize the body of video work created during their own high school careers. The student develops a substantial video portfolio based upon this work for public presentation.

## Technical Theater

### Level 1

#### **Set Design & Stagecraft Honors** 459928HW **Grade 11** 1 unit

This course presents principles and techniques of technical theater needed to engineer and complete the requirements for a theatrical production. Study of set design includes terminology, construction technology, theater safety procedures and problem solving; stagecraft instruction includes prop building, costume design/construction and set decoration. Students learn to operate power tools under operating and safety guidelines to construct theater sets and props, and they are introduced to computer-related theatrical programs and elements.

#### **Sound Engineering & Lighting Design Honors** 459929HW **Grade 11** 1 unit

Students address the specific elements of engineering sound or designing lighting in the theater environment, including computer-related programs and elements. They also explore and develop the techniques and equipment, enabling them to create a professional product that demonstrates their abilities as theatre technicians who operate sound and lighting effectively in a live setting.

### Level 2

#### **Theater Production Workshop Honors** **Grade 12** 1 unit

Students research and complete assigned projects related to aspects of technical theater such as set design, lights, sound, costumes, makeup and props. Students also learn theater production from the business perspective, including topics such as securing rights and royalties, marketing and box office management. They gain this hands-on experience through working through a full production process.

#### **Computer Aided Theatrical Design Honors** **Grade 12** 1 unit

**Prerequisite:** Fluid Design  
Students work on computer programs commonly used in designing for the theater stage to create ground plans, elevations and light plots. They develop a final project in which they each create 3-D representations of ground plans, export drawings from software into a 3-D rendering program and create and manipulate textures to be applied to designs; students present this portfolio to an expert panel by showing their work and justifying their design decisions.

## Digital Photography

### Level 1

#### **Function of Images Honors** 459930HW **Grade 11** 1 unit

Students work collaboratively and independently on assignments that require completion of the Breadth Section of the AP Studio Art Portfolio. Students are challenged to connect concepts and experiences to student generated images. They research the photographic medium from invention through contemporary use and practice. Students also learn how photography has been used as a cultural force, a means of personal expression and an aesthetically-based medium.

#### **Photographic Technique & Functions Honors** 459931HW **Grade 11** 1 unit

Students learn the functions of the digital camera using manual settings. Students explore the different purposes, functions, and features of lenses. Lighting techniques are applied in a series of photographic exercises within controlled environments. Students learn to use both natural and artificial lighting to create photographic illustrations. Both "hot lights" and electronic flashes are used to achieve total control of composition, color, contrast and reflection. Students also learn to use Lightroom and Photoshop software.

### Level 2

#### **Mixed-media Photography Honors** 459935HW **Grade 12** 1 unit

Students study a variety of visual forms, media, operative concepts and theories that pertain to both historical and contemporary photographic practices. Students complete a series of studio projects that explore both traditional and non-traditional methods of Fine Art photography while mixing various forms of media. Students maintain a journal/sketchbook and analyze/critique the message and or purpose associated with the imagery created. Photoshop techniques and processes are explored.

#### **AP Photography** 357400AW **Grade 12** 1 unit

Students demonstrate the use of natural and artificial lighting to create a 2D portfolio for the AP Studio Art Exam. Student photographers investigate a central idea or theme and create a series of linking images for the Concentration section of the AP Portfolio. Ideas can focus on fine art, editorial or commercial applications. Images are prepared and submitted in accordance with specifications required by the College Board. Students are also required to organize, design and hold a professional exhibition.

## Center Comprehensives

### Level 1

#### **Fluid Design Honors** 379902HW **Grade 11** 1 unit

Design systems that contribute to expression, aesthetic appeal and visual strength are used in a range of art and design fields, such as painting, architecture, product design, animation, graphic design and film. Students study how these tools are used and apply the systems to their own creations within their areas of emphasis.

### Level 2

#### **Production Practicum Honors** 379903HW **Grade 12** 1 Unit

In this capstone course students gain insight into 21st century multi-faceted markets for digital media arts. The course focuses on navigating the business of being a digital media professional. Students have the opportunity to participate in externships, internships and/or interactions with professional mentors.



#### Contact Information:

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**River Bluff High School**  
**(803) 821-0702**



# Center for Public Health and Advanced Medical Studies

The Center for Public Health and Advanced Medical Studies is located on the campus of White Knoll High School. The Center is open to all students in Lexington School District One beginning in grade 10. Students spend a total of two 90-minute blocks within the Center (half a day) each semester. All students take four Project Lead the Way (PLTW) courses focusing on the Biomedical Sciences. In addition to the courses taken through the center, students have the opportunity in their senior year to gain real world exposure through various work force visits.

**Center Prerequisites:** Students applying to the Center are required to have completed Biology 1 and Algebra 1 prior to their sophomore year.

## Sophomore Year

In their Sophomore year, students begin taking courses in the Center. Students attend two blocks of classes each semester for a total of four classes. The classes being offered in Year One of the program include:

- Human Body Systems Honors
- Public Health Seminar Honors
- Chemistry 1 Honors
- Principles of the Biomedical Sciences Honors

## Junior Year

In their Junior year, students again take a total of four classes within the Center, two in the fall and two in the spring. The courses Juniors are required to take include:

- AP Chemistry 2
- Chemistry 2 Extension Honors
- Medical Interventions Honors
- Advanced Public Health Honors

*\*\*Students are encouraged to apply for externship opportunities during the summers between their Sophomore / Junior year and their Junior / Senior year.*

## Senior Year

In their final year in the program, students are able to focus on either Advanced Medical Studies or Public Health depending on where their interests lie. All students will take:

- Biomedical Innovations Honors
- Senior Seminar Honors
- AP Biology 2
- Biology 2 Extension Honors

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**White Knoll High School**  
**(803) 821-5200**

# Course Requirements

## 10th Grade

### Principles of Biomedical Sciences HN 558000HW Grade 10 1 unit

Students investigate the human body systems and various health conditions including heart disease, diabetes, and infectious diseases. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, medicine, research processes, and bioinformatics. This course is designed to provide an overview of all the courses in the Biomedical Sciences program and lay the scientific foundation for subsequent courses.

### Human Body Systems Honors 558100HW Grade 10 1 unit

Students examine the interactions of body systems as they explore identity, communication, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real world cases and often play the role of biomedical professionals to solve medical mysteries.

### Public Health Seminar Honors 559904HW Grade 10 1 unit

This course is modeled after the University of South Carolina's Public Health 102 course. Students will be introduced to the history of public health and will then progress to analyzing public health initiatives on the local, state, national and global levels. Projects and activities in this course are designed to challenge student thinking while learning about the many facets of public health.

### Chemistry 1 Honors 323150HW Grade 10 1 unit CHE lab credit

This course is an in-depth study of the nature and structure of matter, the periodic system, chemical reactions, balancing equations, mathematics of chemistry, gases, solutions and solubility, calorimetry, and acid-base relationships, with emphasis placed on chemical calculations. Appropriate laboratory activities that address the course inquiry standards are coordinated with the course content based on the South Carolina Chemistry Academic Standards.

## 11th Grade

### Medical Interventions Honors 558200HW Grade 11 1 unit

Students investigate the variety of interventions involved in the prevention, diagnosis, and treatment of disease. The course is a "How-To" manual for maintaining overall health and homeostasis in the body as students explore: how to prevent and fight infection; how to screen and evaluate the code in human DNA; how to prevent, diagnose and treat cancer; and how to prevail when the organs of the body begin to fail. Through these scenarios, students are exposed to the wide range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. Lifestyle choices and preventive measures are emphasized throughout the course as well as the important role scientific thinking plays in the development of interventions of the future.

### Advanced Public Health Honors 559905HW Grade 11 1 unit

This course is designed to challenge students as they work through problem based units centered around the core areas of public health; epidemiology, biostatistics, environmental health sciences, health administrative services, and health promotion and behavior. Students will explore these five areas through hands-on, real world activities and labs.

### Advanced Placement Chemistry 2 327350AW Grade 11 1 unit CHE lab credit

**Prerequisite:** Chemistry 1, Algebra 2  
**Requirement:** AP Chemistry Exam, Chemistry 2 Extension Honors linked course, summer reading/assignment

This course is a second year of intensive chemistry designed to prepare students to take the Advanced Placement Chemistry Examination. The course meets the objective of a general chemistry course at the college level. The College Board determines the course description; therefore, the content of this course must adhere to those requirements. This course is linked to a required one-unit honors course.

### Chemistry 2 Extension Honors 327351HW Grade 11 1 unit

This course is a required link to Advanced Placement Chemistry 2 and is only open to those students enrolled in that course.

## 12th Grade

### Biomedical Innovations Honors 558300HW Grade 12 1 unit

In this capstone course, students apply their knowledge and skills to answer questions or solve problems related to the biomedical sciences. Students design innovative solutions for the health challenges of the 21st century as they work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health. They have the opportunity to work on an independent (capstone) project and may choose to work with a mentor or advisor from a university, hospital, physician's office, or industry. At the culmination of the project, students are expected to present their work to an adult audience that may include representatives from the local business and the healthcare community.

### Senior Seminar Honors 559906HW Grade 12 1 unit

This course includes various opportunities for students to visit work sites within the public health and medical communities. As this course is linked to Biomedical Innovations Honors, students may choose to extend their capstone project over both courses if additional time and resources are needed.

### Advanced Placement Biology 2 327250AW Grade 12 1 unit CHE lab credit

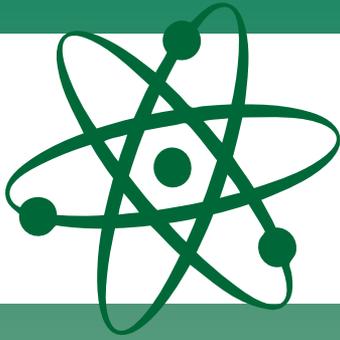
**Prerequisite:** Biology 1, Chemistry 1  
**Requirement:** AP Biology Exam, Biology 2 Extension Honors linked course, summer reading/assignment

This course is a second year of intensive biology designed to prepare students to take the Advanced Placement Biology Examination. The course meets the objective of a general biology course at the college level. The College Board determines the course description (including dissection); therefore, the content of this course must adhere to those requirements. This course is linked to a required one-unit honors course.

### Biology 2 Extension Honors 327251HW Grade 12 1 unit

This course is a required link to Advanced Placement Biology 2 and is only open to those students enrolled in that course.





# center for advanced STEM studies



The Center for Advanced STEM Studies at Lexington Technology Center is open to all interested students in Lexington County School District One. STEM topics are at the global, local, and personal levels. Students will have opportunities to develop leadership and communications skills. The coursework is a combination of collaborative studies, project-based learning, and industry-based problem solving. Through the Internet, students are connected to the curriculum and have access to resources beyond the classroom. This curriculum offers unlimited opportunities for motivated students. Every advanced STEM course is designed around national science, technology, and engineering/mathematics standards. A student must earn six Center credits to be recognized as a Center completer.

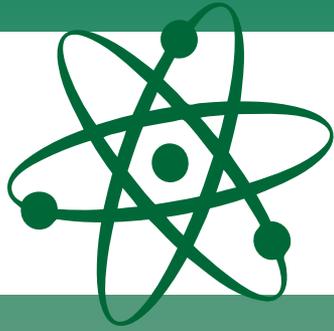
The Center for Advanced STEM Studies course sequence has been redesigned for the 2014-15 school year to allow for:

- Center participation as early as ninth grade
- Increased work-based learning opportunities
- Student preference for engineering electives

## Lexington Technology Advanced STEM Center Advisory Committee

- Scott Adams, AG&G
- Brandon Ashley, SCE&G
- Rick Clamp, Sims Group
- Randy Crutfield, Michelin Tire Corporation
- Matthew L. Culler, Mead & Hunt
- Charlie Deep, 4D Engineering
- Greg Dubose, MEI Detailing
- Kevin Eubanks, Stevens & Wilkinson
- Don Griffith, University of SC College of Engineering
- Owens Hardison, Jr., SCE&G
- Marcus Harris, SCE&G
- Rick Hurst, MTC College of Engineering Technologies
- Josh Jackson, SCE&G
- Joe Miller, Buford Goff & Associates
- Linda Payne, Ph.D., STEM Center of SC
- Jason Pelletier, Mead & Hunt
- Keith Powell, Palmetto Fabricators
- Ryan Slattery, Alliance Consulting Engineer
- Tyler Tucker, ETI Electrical Solutions
- Bryson Tucker, ETI Electrical Solutions
- Lew Wayburn, ISB, LLC
- John White, SC Dept. of Transportation

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center for advanced  
**STEM**  
s t u d i e s



[ FOUNDATION  
COURSES ]

- Course 1: Intro to Engineering\*
- Course 2: Mechanical Design\*
- Course 3: 3-D Solid Modeling\*
- Course 4: Engineering Technology (HN)

[ SPECIALIZATION  
COURSES ]

- Course 5: Engineering Elective  
(Choose from list below)
- Course 6: Advanced STEM Research (HN)

\*Offered at home high schools.

engineeringELECTIVES



- Architectural Design 3 (HN)
- Calculus AB (AP) or BC (AP)
- Electronics for Engineers (HN)
- Green Methods (HN)
- Materials Science (HN)
- Physics (HN)
- Physics C Mechanics (AP)
- Physics C Electricity & Magnetism (AP)

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# CENTER FOR ADVANCED STEM STUDIES

## [FOUNDATION COURSES]

### Introduction to Engineering

609501CW

1 Unit

This STEM course is a basic introduction to engineering for all students. Students who complete this course will learn the concepts necessary in order to develop their ideas into solutions that will improve our lives. Exciting hands-on learning activities like data comparison of heart rates, rating consumer products, descriptive testing and 3D solid modeling apply math, science, history and English content from other courses in a STEM experience.

### Mechanical Design

617200CW

1 Unit

This course is designed to expand students' knowledge of the skills needed to be involved in an engineering field. This class uses CAD software. Units of study include manual drafting equipment, geometric construction, single-view drawings, multi-view drawings, dimensioning, and isometric and oblique drawings.

### 3-D Solid Modeling

617301CW

1 Unit

Prerequisite: Intro to Engineering or Mechanical Design  
Learning 3D design is an interactive process whereby ideas become reality. Since students learn best when they explore the practical applications of the concepts they learn, this STEM course has many activities and exercises that enable students to put design concepts into practice. Students will be eligible to become a Certified Solid Works Associate (CSWA).

### Engineering Technology Honors

609910HW

LTC

1 Unit

Students build skills for success through research, experiments and challenges that incorporate science, technology, engineering, and mathematics (STEM) concepts. Engineering Technology introduces students to a variety of experiences that mirror actual engineering problems encountered by business and industry. They gain experience with using measurement tools and instruments and perform experiments with electrical circuits, mechanical and fluid systems.

## [SPECIALIZATION COURSES]

### Advanced STEM Research Honors

609914HW

LTC

1 Unit

This course is designed to be a capstone experience for the Center for Advanced STEM Study. Students enrolled in this course conduct a self-directed project which consists of researching, designing, building and presenting a project to a committee of advisory members. Possible projects include experimental research, entrepreneurial ventures and advanced STEM studies with respect to environmental and economic impact. Research may include internships or several externships with local engineering firms or institutions of higher education.

## [ENGINEERING ELECTIVES]

### Architectural Design 3 Honors

529918HW

LTC

1 Unit

Prerequisite: Architectural Design 1 and 2  
In this course students will be expected to apply concepts learned from Architectural 1 & 2. Students will gain knowledge of 'green building', the design process and all necessary disciplines (mechanical, electrical, plumbing, civil, and structural) to construct a building from start to finish.

### Calculus AB Advanced Placement

417050AW

1 Unit

Prerequisite: Pre-Calculus  
Requirement for Calculus AP: Advanced Placement Calculus AB Exam, Calculus AB Extension Honors linked course, summer reading/assignment.  
This course includes the study of elementary functions, differential calculus and integral calculus.

### Calculus BC Advanced Placement

417200AW

LHS, RBHS, and WKHS

1 Unit

Prerequisite: Pre-Calculus (HN)  
Requirement: AP Calculus BC Exam, summer reading/assignment.  
This course is intended for students who have a thorough knowledge of college preparatory mathematics. The syllabus includes a study of calculus topics generally taught in two semesters at the college level. This course is linked to AP Calculus AB.

### Electronics for Engineers Honors

609906HW

LTC

1 Unit

This course focuses on applied logic that encompasses the application of electronic circuits and devices. Computer simulation software is used to design and test digital circuitry prior to actual construction of circuits and devices.

### Green Methods Honors

609911HW

LTC

1 Unit

This course introduces sustainability and renewable energy. It offers insight into decisions concerning renewable energy. Issues studied include shelter, water, air, energy, waste, transportation and consumerism.

### Materials Science Honors

609912HW

LTC

1 Unit

This course combines science, ingenuity, creativity, and exciting hands-on labs. Students learn about materials, materials uses and applications, scientific theories, and practical experiences.

### Physics Honors (With a Focus on Engineering)

324150HW

LTC

1 Unit CHE lab credit

Prerequisite: Biology 1, Pre-Calculus (Can be taken concurrently)  
This course offers an in-depth study of the physics principles. Emphasis is placed on mathematical computation. Topics include mechanics, torque, motion, sound, light, optics, electricity & electromagnetism, and relativity.

### Physics C Mechanics Advanced Placement

327500AW

LHS

1 Unit CHE lab credit

Prerequisite: Physics 1 (HN), AP Calculus (completed or concurrent)  
Requirement: AP Physics C Mechanics Exam  
This course focuses on mechanics with calculus being used in problem solving and in derivations. This course is recommended for students who are planning to major in engineering in college.

### Physics C Electricity & Magnetism Advanced Placement

327600AW

LHS

1 Unit CHE lab credit

Prerequisite: AP Physics C Mechanics, AP Calculus (completed or concurrent)  
Requirement: AP Physics C Electricity & Magnetism Exam  
This course focuses on classical electricity and magnetism with calculus being used in problem solving and in derivations. This course is recommended for students who are planning to major in engineering in college.



# Center for Sustainable Solutions

The goal of the Center for Sustainable Solutions at Gilbert High School is to create forward-thinking, innovative problem-solvers interested in maintaining the world's limited resources. The program is open to all juniors and seniors in Lexington School District One. Students spend a total of two 90 minute blocks within the Center (half day) each semester. Students study how humans are managing our natural resources and how human activity impacts local and global environments. Students research case studies addressing major societal concerns such as the destruction of ecosystems, the reduction in biodiversity, global warming and the efficient use of clean energy and water. Solutions that address current issues are explored using creativity, critical thinking and problem solving strategies. Students who complete this program have the opportunity to receive credit for college courses and accreditation in green building practices. Students must complete at least six Center courses to be recognized as a Center completer.

## Sustainable Solutions Coursework - Year 1

### AP Environmental Science Grade 11

327700AW  
1 unit CHE lab credit

**Prerequisite:** Biology 1, Chemistry 1

**Requirement:** AP Environmental Science Exam, Environmental Science Extension Honors linked course, summer/reading assignment

This course provides students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems and to examine alternative solutions for resolving or preventing them.

### Green Building Solutions Honors Grade 11

329907HW  
1 unit

Students explore environmentally conscious design techniques in the field of residential and commercial building construction. Students research how to minimize the negative environmental impact of buildings by improving efficiency and using materials, energy and development space in moderation. Students enrolled in this course explore site selection, indoor air quality, landscaping, water efficiency, solar design, green materials and other topics related to sustainable building.

This course is designed to provide an overview of the Leadership in Efficient and Environmental Design (LEED) process. Students are prepared to gain a Green Associates certificate in LEED practices. Note: Students must be 18 years old to be eligible for the certification exam.

### AP Environmental Science Extension Honors Grade 11

327702HW  
1 unit

This course is a required link to Advanced Placement Environmental Science and is only open to those students enrolled in that course.

### Physics Honors (focus on Sustainability) Grade 11

324100HW  
1 unit CHE lab credit

**Prerequisite:** Biology 1, Pre-Calculus (completed or concurrent)

This course offers an in-depth study of the physics principles with emphasis placed on mathematical computation. Where appropriate, calculus methods are used to solve problems. Laboratory activities that address the course inquiry standards are coordinated with the course content so students can grasp the experimental nature of science. Topics include measurement, mechanics, torque, rotary motion, wave motion, sound, light, optics, electricity and electromagnetism, and relativity.

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**"To waste, to destroy our natural resources, to skin and exhaust the land instead of using it so as to increase its usefulness, will result in undermining in the days of our children the very prosperity which we ought by right to hand down to them amplified and developed."**

*~Theodore Roosevelt, seventh annual message, 3 December 1907*



### Sustainable Solutions Coursework— Year 2

#### Energy Management Solutions Honors Grade 12

**329916HW**  
**1 unit**

Students research thoroughly the topics of energy auditing and energy conservation. They are actively involved in advanced hands-on simulations to measure the electrical and lighting loads involved in residential and commercial buildings. Students investigate how various structural components affect the energy consumption of buildings by analyzing case studies and the data from their simulations and then applying what they have learned to design more energy efficient structures.

#### Biology 2 Honors/SC Student Naturalist Program Grade 12

**322200HW**  
**1 unit CHE lab credit**

**Prerequisite:** Biology 1

This course is designed to develop students well-trained in the fundamentals of nature in order to empower them to contribute their time and talents to promoting and creating sustainable solutions for their local and global communities. The concepts of this course include: the environment and current environmental issues, animal behavior, plants, evolution, and classification with a specific focus on each of the kingdoms. It is taught in a hands-on, real world manner, and students have the opportunity to complete the SC Student Naturalist Program. Students complete a capstone project requiring self-directed research reflecting service to the community and an understanding of the environmental, social and economic challenges facing the world.

#### Sustainable Energy Systems Honors Grade 12

**329917HW**  
**1 unit**

Students enrolled in this course explore principles of energy production and electricity through case studies and hands-on simulations requiring critical thinking and problem-solving. Students study the incorporation of these principles into the design of green technologies and renewable energy systems. Areas of research and study include solar energy systems, wind turbines, hydrogen fuel cells, hydro-electric systems and geo-thermal systems. Students complete a capstone project requiring self-directed research reflecting service to the community and an understanding of the environmental, social and economic challenges facing the world.

#### AP Macroeconomics (focus on Sustainability ) Grade 12

**337400AW**  
**1 unit**

**Prerequisites:** Algebra 2

**Requirement:** AP Macroeconomics Exam, summer reading/assignment

This course is designed to provide a thorough understanding of the principles of economics that apply to an economic system as a whole. This course places emphasis on the study of national income and price determination and also develops familiarity with economic performance measures, economic growth and international economics. The College Board determines the course description; therefore, the content of this course must adhere to those requirements.

#### Complementary Courses

Architectural Design 1 and 2

Chemistry 2 (AP Chemistry 2)

Calculus (AP Calculus AB/BC)

Entrepreneurship



# Center for World Languages and International Business



## CONTACTS

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The Center for World Languages and International Business at Lexington High School is open to all interested students in Lexington County School District One. The goal of the Center is to develop future global leaders who are plurilingual and possess an excellent business background. By combining the study of language, mathematics, business, economics, and sociocultural coursework, the Center provides a strong foundation for further study in undergraduate international business programs or related fields.

Center students:

- Must earn six Center credits to be recognized as a Center completer (three in language and three in International Business)
- May qualify to take the AP or IB exam for college credit in a Level 5 language course
- May begin participating as early as ninth grade (Human Geography AP)

## CENTER FOR WORLD LANGUAGES AND INTERNATIONAL BUSINESS

### Advisory Board

- Roger Schrum, Vice President SC Chamber of Commerce and Business
- Dr. Kay Shaw, Executive Director, Midlands Regional Education Center
- Dr. Randy Folks, Jr., Darla Moore School of Business
- Mike Shealy, Director, Center for International Business Education and Research
- Fred Monk, World Affairs Council
- Ruta Couet, SC Department of Education
- Wei Hu, Confucius Institute, University of South Carolina
- Dr. Tan Ye, Confucius Institute, University of South Carolina
- Glenn Tourcotte, Community member, Former Business Person of the Year
- Margaret Mitchum, Principal, Pleasant Hill Middle School
- Ryan Poole, Principal, Lexington Middle School
- Bryan Hearn, Director, Lexington Technology Center



# Center for World Languages and International Business



## World Language Course Offerings

French 4, 5 (HN)

Chinese 1-3 (HN)

German 4, 5 (HN)

Portuguese 1-3 (HN)

Latin AP

Russian 1-3 (HN)

Spanish 4, 5 (HN)



## International Business Course Offerings



Business and Organization (IB)

Human Geography (AP)

Business in the Spanish Speaking World (HN)

International Business and Marketing (HN)

Calculus (AP)

Macroeconomics (AP)

Comparative Government (AP)

Microeconomics (AP)

Cultural Studies (HN)

Statistics (AP)

Global Leadership for the 21st Century

Virtual Enterprise (CP)

## International Business Course Offerings

### **Business and Organization SL**

**Grades 11–12 (LHS)**

The business and management International Baccalaureate certificate course aims to help students understand the implications of business activity in a global market. The course gives students an international perspective of business and encourages their appreciation of cultural diversity through the study of topics such as international marketing, human resource management, growth and business strategy. The course encourages the appreciation of ethical concerns and issues of social responsibility in the global business environment. Students should be able to make sense of the forces and circumstances that drive and restrain change in an interdependent and multicultural world. This business and management course contributes to students' development as critical and effective participants in local and world affairs.

**381A00IW**

**1 unit**

### **Business in the Spanish Speaking World (Spanish 3 HN)**

**Grades 10–12 (LHS, PHS)**

This semester course is designed to give intermediate to advanced students of Spanish a foundation of business vocabulary, basic business and cultural concepts, and situational practice that prepare students for success in today's Spanish-speaking business world.

**365301HW**

**1 unit**

### **Calculus AB (Advanced Placement)**

**Grade 12 (GHS, LHS, PHS, RBHS, WKHS)**

**Prerequisites:** Pre-Calculus

**Requirement:** Advanced Placement Calculus AB Exam, Calculus AB Extension Honors linked course, summer reading/assignment

**Recommended:** Grade of 80 or higher in Pre-Calculus Honors or Pre-Calculus, a score of 55/550 on the math portion of the PSAT/SAT

**417000AW**

**1 unit**

This course includes a study of elementary functions, differential calculus and integral calculus. The College Board determines the course description; therefore, the content of this course must adhere to those requirements. Students must be prepared to spend an average of one hour per night on homework to be successful. This course is linked to a required half-unit honors course.

### **Calculus AB Extension Honors**

**Grade 12 (GHS, LHS, PHS, WKHS)**

This course is a required link to Advanced Placement Calculus AB and is only open to those students enrolled in that course.

**417002HH**

**½ unit**

### **Comparative Government (Advanced Placement)**

**Grades 10–12 (LHS)**

**Requirement:** Advanced Placement Comparative Government Exam, summer reading/assignment

The AP course in Comparative Government and Politics introduces students to the fundamental concepts used by political scientists to study the processes and outcomes of politics in six countries; China, Great Britain, Mexico, Nigeria, Russia, and Iran. With an emphasis on conceptual and thematic analysis, students examine these countries focusing on globalization, democratization, political change, public policy, and citizen-state relations.

**337850AW**

**1 unit**

### **Cultural Studies Honors**

**Grades 10–12 (LHS)**

This course engages students in an in-depth study of the many elements of culture. Major emphasis is placed upon practical, real life applications of culture. Course study is focused upon selected regions of the developed and developing world, as well as cultural life in China, Russia, Japan, Arabia, India, and Brazil. This approach enables students to experience and appreciate the significance of culture in their lives, from both a global and local perspective. Throughout the course, students are introduced to a broad offering of topics in the social sciences, including geography, government, history, economics, sociology, as well as current local, state, national, and global events/issues. This course is offered on a rotating basis. The fall version of the course focuses on cultural studies of China, Russia, and Japan.

**339930HW**

**1 unit**

### **Global Leadership for the 21st Century**

**Grades 11–12 (GHS, LHS, PHS, RBHS, WKHS)**

This course provides an in-depth introduction and opportunity for students to explore leadership and its development from a complex, global perspective. It includes a thorough discussion of the impact of culture in organizations and society. Through the study of international leaders who have fostered or continue to foster innovation and change, students gain insight into traditional approaches to leadership, as well as emerging approaches. Protocols for informed decision-making and problem solving are modeled in classroom discussions and incorporated into projects and assignment. Technology is used extensively to support the course's strong emphasis on research, reflection, presentation and communication. The seven habits of highly effective individuals (Covey) are incorporated into the course.

**379909CW**

**1 unit**

## International Business Course Offerings

### Human Geography (Advanced Placement)

Grades 9–12 (GHS, LHS, RBHS)

**Requirement:** AP Human Geography Exam, summer reading/assignment

This course introduces students to the systematic study of patterns and processes that have shaped human understanding, use and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. The College Board determines the course description; therefore, the content of this course must adhere to those requirements.

**337900AW**

1 unit

### International Business & Marketing Honors

Grades 11–12 (LHS)

This course is designed for students considering a career in business, marketing, or foreign relations. Course topics include global economics, governments and business law, culture and ethics, marketing and consumer behavior, and business. Students will be involved in collaborative projects requiring research and study of other countries and their business/ marketing challenges as well as interaction with successful area business leaders.

**503200HW**

1 unit

### Macroeconomics (Advanced Placement)

Grades 11, 12 (GHS, LHS, RBHS, WKHS)

**Prerequisite:** Algebra 2

**Requirement:** AP Macroeconomics Exam, summer reading/assignment

This course is designed to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. This course places emphasis on the study of national income and price determination and also develops familiarity with economic performance measures, economic growth and international economics. The College Board determines the course description; therefore, the content of this course must adhere to those requirements.

**337400AW**

1 unit

### Microeconomics (Advanced Placement)

Grades 11, 12 (LHS, RBHS, WKHS)

**Prerequisites:** Algebra 2

**Requirement:** AP Microeconomics Exam, summer reading/assignment

This course is designed to provide a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the larger economic system. It places primary emphasis on the nature and functions of product markets and includes the study of factor markets and the role of government in promoting greater efficiency and equity in the economy. The College Board determines the course description; therefore, the content of this course must adhere to those requirements.

**337500AW**

1 unit

### Statistics (Advanced Placement)

Grades 10–12 (GHS, LHS, RBHS, WKHS)

**Prerequisite:** Algebra 2

**Requirement:** Advanced Placement Statistics Exam, Statistics Extension Honors linked course, summer reading/assignment

**Recommended:** Access to a graphing calculator outside the classroom

This course is appropriate for students pursuing a degree in mathematics, engineering, psychology, sociology, health science or business. Four basic concepts are studied: exploring data, planning a statistical study, anticipating patterns using probability and simulations, and drawing statistical inferences. The course is equivalent to an introductory non-calculus college course in statistics. The College Board determines the course description; therefore, the content of this course must adhere to those requirements. This course is linked to a required half-unit-honors course.

**417100AW**

1 unit

### Statistics Extension Honors

(for Advanced Placement Statistics)

Grades 10–12 (GHS, LHS, RBHS, WKHS)

This course is a required link to Advanced Placement Statistics and is only open to those students enrolled in that course.

**417102HH**

½ unit

### Virtual Enterprise

Grades 10–12 (LHS, RBHS, WKHS)

**Prerequisite:** Integrated Business Applications 1

Virtual Enterprise is a simulated business environment, which is part of a national curriculum from Virtual Enterprises International and the South Carolina Virtual Enterprises Network that allows students to experience within a simulated business all facets of being an employee in a firm. The program allows students to run simulated offices in their schools and engage in virtual trading with other practice firms. It also provides students with interdisciplinary instructional and in-school work experience to develop school-to-career skills including accounting, personnel administration, management, marketing and Web site development. The goal of Virtual Enterprise is to create a learning environment that integrates school and workplace to enhance learning.

**515000CW**

1 unit

## World Language Course Offerings

### Chinese 1 Honors

Grades 10–12 (LHS)

**Prerequisite:** Level 2 of another world language, completed or concurrent

This course is designed as an introduction to the Chinese language and culture using communicative language learning strategies. It introduces the structure and phonetic system of the Chinese language. It covers the development of communication skills in written and spoken language and the culture and civilization of China. Units of study include About You and Me, The Community, Daily Life, and The World.

**461100HW**

**1 unit**

### Chinese 2 Honors

Grades 11–12 (LHS)

**Prerequisite:** Chinese 1 Honors

This course is a review and expansion of structure, vocabulary and usage of the Chinese language with emphasis on authentic communication. Culture, civilization, and comparisons are important aspects of the course. Expanded units of study include About You and Me, The Community, Daily Life, and The World.

**61200HW**

**1 unit**

### Chinese 3 Honors

Grades 11–12 (LHS)

**Prerequisite:** Chinese 2 Honors

This course is a review and expansion of structure, vocabulary and usage of the Chinese language with emphasis on authentic communication. Culture, civilization, and comparisons are important aspects of the course. Units of study include Childhood Memories, Our Planet, Our Concern, and The Future.

**461300HW**

**1 unit**

### Portuguese 1 Honors

Grades 10–12 (LHS)

**Prerequisite:** Level 2 of another world language, completed or concurrent

This course introduces the Portuguese language and culture using communicative language learning strategies and the structure and phonetic system of the Portuguese language. It covers the development of communication skills in written and spoken language and the culture and civilization of Portuguese-speaking countries. Units of study include About You and Me, The Community, Daily Life, and The World.

**369901HW**

**1 unit**

### Portuguese 2 Honors

Grades 11–12 (LHS)

**Prerequisite:** Portuguese 1 Honors

This course is a review and expansion of structure, vocabulary and usage of the Portuguese language with emphasis on authentic communication. Culture, civilization, and comparisons are important aspects of the course. Expanded units of study include About You and Me, The Community, Daily Life, and The World.

**369905HW**

**1 unit**

### Portuguese 3 Honors

Grades 11–12 (LHS)

**Prerequisite:** Portuguese 2 Honors

This course is a review and expansion of structure, vocabulary and usage of the Portuguese language with emphasis on authentic communication. Culture, civilization, and comparisons are important aspects of the course. Units of study include Childhood Memories, Our Planet, Our Concern, and The Future.

**369906HW**

**1 unit**

### Russian 1 Honors

Grades 10–12 (LHS)

**Prerequisite:** Level 2 of another world language, completed or concurrent

This course is designed as an introduction to the Russian language and culture using communicative language learning strategies. It introduces the structure and phonetic system of the Russian language. It covers the development of communication skills in written and spoken language and the culture and civilization of Russia. Units of study include About You and Me, The Community, Daily Life, and The World.

**369902HW**

**1 unit**

### Russian 2 Honors

Grades 10–12 (LHS)

**Prerequisite:** Russian 1 Honors

This course is a review and expansion of structure, vocabulary and usage of the Russian language with emphasis on authentic communication. Culture, civilization, and comparisons are important aspects of the course. Expanded units of study include About You and Me, The Community, Daily Life, and The World.

**369903HW**

**1 unit**

## World Language Course Offerings

### Russian 3 Honors

Grades 10–12 (LHS)

**Prerequisite:** Russian 2 Honors

This course is a review and expansion of structure, vocabulary and usage of the Russian language with emphasis on authentic communication. Culture, civilization, and comparisons are important aspects of the course. Units of study include Childhood Memories, Our Planet, Our Concern, and The Future.

**369904HW**

**1 unit**

### French 4 Honors

Grades 10–12 (LHS, RBHS, WKHS)

**Recommended:** Grade of 85 or better in French 3

This course is an advanced study of the French language and culture emphasizing comprehension and communication of current topics as well as literature and civilization. Students improve fluency and accuracy while engaging in creative and cooperative projects in the classroom and in the language community.

**361400HW**

**1 unit**

### French 5 Honors

Grades 11, 12 (LHS, RBHS, WKHS)

**Recommended:** Grade of 85 or better in French 4

This advanced course extends and expands skills already developed, emphasizing extended conversation, reading and composition. Students also begin a more serious study of French history and literature.

**361500HW**

**1 unit**

### German 4 Honors

Grades 11, 12 (GHS, LHS, RBHS, WKHS)

**Recommended:** Grade of 85 or better in German 3

This course is an advanced study of German with an emphasis on comprehension and communication about current topics, literature and culture. Students work to achieve better oral and written proficiency.

**362400HW**

**1 unit**

### German 5 Honors

Grades 11, 12 (LHS, RBHS, WKHS)

**Recommended:** Grade of 85 or better in German 4 Honors

This advanced communication and culture course extends and expands skills developed in German 4 and emphasizes extended conversation, reading and composition.

**362500HW**

**1 unit**

### Latin 4 (Advanced Placement)

Grades 10–12 (LHS, RBHS)

**Requirement:** AP Latin Exam, Latin 4 Extension Honors

linked course, summer reading/assignment

**Recommended:** Grade of 85 or better in Latin 3

This course prepares students to read, understand, analyze, scan and interpret lines of Vergil. College Board determines the syllabus for the course; therefore, the content of the course may not be adjusted. Students take the AP examination in the Latin language. This course is linked to a required half-unit honors course.

**367400AW**

**1 unit**

### Latin 4 Extension Honors

(for Advanced Placement Latin 4)

Grades 10–12 (LHS, RBHS)

This course is a required link to AP Latin 4 and is only open to students enrolled in that course.

**367401HH**

**½ unit**

### Spanish 4 Honors

Grades 11, 12 (GHS, LHS, PHS, RBHS, WKHS)

**Recommended:** Grade of 85 or better in Spanish 3

This advanced Spanish language course emphasizes speaking and oral comprehension of current topics. Students also study the structure of the Spanish language, development of writing skills and expanded reading comprehension.

**365400HW**

**1 unit**

### Spanish 5 Honors

Grades 11, 12 (GHS, LHS, RBHS, WKHS)

**Recommended:** Grade of 85 or better in Spanish 4

This advanced communication and culture course extends and expands the skills developed in Spanish 4, emphasizing extended conversation, reading and composition. Students complete a major project.

**365500HW**

**1 unit**

# INTERNATIONAL BACCALAUREATE

## DIPLOMA PROGRAMME

The Diploma Programme is composed of six main subject areas:

- English A1 (Group 1)
- Language B (Group 2)
- Individuals and societies (Group 3)
- Experimental sciences (Group 4)
- Mathematics and computer science (Group 5)
- The arts (Group 6)

Within the subject areas, courses are designated as either Higher Level (HL), with a minimum of 240 hours of instruction, or Standard level (SL), with a minimum of 150 hours of instruction. Lexington High School requires one block of time across one year for Standard Level courses or two blocks of time across two years for Higher Level courses.

Students must select courses within their junior and senior years that incorporate each of the six groups. All students must take English, history, foreign language, math, and science. Their sixth class may be a course in visual or performing arts, a second science, economics, or psychology class. In addition to the six courses, students are required to write a college-level essay on an approved topic of their choice, to complete a minimum of 150 hours of community service, and to enroll in a class called Theory of Knowledge (TOK).

Students must also choose which courses they wish to take at Higher Level and which they prefer to take at Standard Level with the International Baccalaureate Organization allowing a maximum of four Higher Level courses.

## REGISTRATION AND ENROLLMENT IN THE DIPLOMA PROGRAMME

Students wishing to enroll in the Diploma Programme are making a two-year commitment to complete all requirements set forth by the state of South Carolina and by the International Baccalaureate Organization (IBO).

## ADMISSION TO THE PROGRAMME

Lexington High School has a history of providing high academic standards as well as offering a variety of course choices at various levels. The Diploma Programme specifically meets the needs of college-bound students with a strong academic background and genuine work ethic. The variety of courses offered in the programme are clearly designed to challenge students daily in areas of critical thinking, academic rigor, spirited motivation, global issues, community service, self-discipline, and time management.

Students who are accepted to be part of the Diploma Programme make a commitment to complete all six course requirements, Theory of Knowledge, the extended essay, and Creativity, Action, and Service (CAS) within two years. Lexington High School recommends that students who wish to take individual courses of academic rigor should consider enrolling in Advanced Placement classes.

The Diploma Programme is not designed to exclude any students but rather to meet the needs of a specialized population.

## COURSE SELECTIONS

All students enrolled in the Diploma Programme must take the following courses within their junior and senior years:

- English A1
- One world language
- History of the Americas
- One math
- One science
- One visual/performing arts or and additional science, economics or psychology course

Students may complete their schedules each year with non-IB courses.

### ENGLISH A1 (GROUP 1)

The English A1 curriculum begins the summer before grade 11 with a mandatory reading assignment of one or two novels. Specific instruction will be distributed to students prior to the summer break.

**English A1, HL**

**HL-1 301B00IW**

**HL-2 301C00IW**

**Grades: 11, 12 (Semesters: 4) 2 units**

**Prerequisite:** Honors or Seminar English 1/English 2/English 3; teacher recommendation

This course is designed to develop independent critical competency in the study of American and World Literature. IB English fosters a high level of achievement in writing, reading, and speaking. The authors and literary works studied are chosen from the IB Prescribed List (PWL) for Language A1. Students will prepare written and oral analyses of the literary works studied. Writing assignments will include general exposition and research preparation for the extended essay.

IB assessments include two in-depth written assignments and two oral presentations over the two-year period. At the end of the course, students take the English A1 Exam.

### LANGUAGE B (GROUP 2)

The Language B courses offered are designed for foreign language learners and focuses principally on the interaction between speakers and writers of the target language. The aim of the course is to prepare students to use the language appropriately in a range of situations and contexts and for a variety of purposes. The course also allows students to develop an awareness and appreciation of the culture(s) of the countries in which the target language is spoken.

**French B, SL**

**361G00IW**

**Grades: 12 (Semesters: 2) 1 unit**

**Prerequisite:** French 1/French 2; French 3 Honors; teacher recommendation

Building on skills acquired in the previous courses, students expand their grammatical knowledge and skill in complex structures and increase their vocabulary through a deeper insight into the people and their culture. Through a more extensive practice in listening, speaking, reading, and writing, students strengthen their proficiency in self-expression and develop deeper comprehension of the language. Students are examined internally and externally on oral and written assignments, which include individual and group performance, listening skills, and literary analysis. At the completion of the course students are required to sit for the French SL Exam.

**French B, SL Extension Honors 361J00HW**  
(for International Baccalaureate French B SL)

**Grade: 11 (Semesters: 2) 1 unit**

This course is a required link to International Baccalaureate French SL and is only open to those students enrolled in that course.

**German, B SL 362G00IW**  
**Grades: 11, 12 (Semesters: 2) 1 unit**

**Prerequisite:** German 1/German 2; German 3 Honors; teacher recommendation

Building on skills acquired in the previous courses, students expand their grammatical knowledge and skill in complex structures and increase their vocabulary through a deeper insight into the people and their culture. Through a more extensive practice in listening, speaking, reading, and writing, students strengthen their proficiency in self-expression and develop deeper comprehension of the language. Students are examined internally and externally on oral and written assignments which include individual and group performance, listening skills, and literary analysis. At the completion of the course, students are required to sit for the German SL Exam.

**German B, SL Extension Honors 362J00HW**  
(for International Baccalaureate German B SL)

**Grade: 11 (Semesters: 2) 1 unit**

This course is a required link to International Baccalaureate German SL and is only open to those students enrolled in that course.

**Spanish B, SL 365G00IW**  
**Grades: 12 (Semesters: 2) 1 unit**

**Prerequisite:** Spanish 1/Spanish 2; Spanish 3 Honors; teacher recommendation

Building on skills acquired in the previous courses, students expand their grammatical knowledge and skill in complex structures and increase their vocabulary through a deeper insight into the people and their culture. Through a more extensive practice in listening, speaking, reading, and writing, students strengthened their proficiency in self-expression and develop deeper comprehension of the language. Students are examined internally and externally on oral and written assignments, which include individual and group performance, listening skills, and literary analysis. At the completion of the course students are required to sit for the Spanish SL Exam.

**Spanish B, SL Extension Honors 365J00HW**  
(for International Baccalaureate Spanish B SL)

**Grade: 11 (Semesters: 2) 1 unit**

This course is a required link to International Baccalaureate Spanish SL and is only open to those students enrolled in that course.

**INDIVIDUALS AND SOCIETY: HISTORY OF THE AMERICAS AND ECONOMICS (GROUP 3)**

The curriculum required for the history course, History of the Americas, begins the summer before grade 11 with a mandatory reading assignment that includes *The Greatest Generation*. Students receive specific instructions prior to the summer break.

**History of the Americas, HL HL-1 336C00IW**  
**HL-2 336D00IW**

**Grades: 11, 12 (Semesters: 4) 2 units**

**Prerequisite:** Honors or Seminar English; teacher recommendation

This two year course contains both United States History

and 20th Century World History topics. The first year is the United States history component called History of the Americas. The student will take the stated mandated United States History End of Course Test at the end of the first year. The second year concentrates on topics of 20th Century World History. Included in those will be:

- Peacemaking and peace keeping
- Causes, practices, and effects of wars
- Origins and development of authoritarian and single party states
- The cold war

At the end of the course, students are tested on the content of both years in the IB exam. A portion of the final IB score is derived from the Historical Investigation written in the second year.

**Economics, SL 335A00IW**  
**Grades: 11, 12 (Semesters: 2) 1 unit**

**Prerequisite:** Honors or Seminar English/Algebra 2; teacher recommendation

This course, offered at both the higher and standard levels, is designed to develop: disciplined economic reasoning skills; an ability to apply tools of economic analysis to situations and data and to explain the findings clearly; an understanding of how individuals and societies organize themselves in the pursuit of economic objectives; an ability to evaluate economic theories, concepts, situations and data in a way which is considered rational and unprejudiced; international perspectives which feature a tolerance and understanding of the diversity of economic realities in which individuals and societies function. This course also aims to provide students with core knowledge of economics, encourage critical thinking, promote awareness and understanding of internationalism, and recognize their tendencies for bias. While students focus on the basic principles of economics, they need to employ the scientific method in discovering the application of these principles to the everyday world. This requires that they incorporate elements of history, geography, psychology, sociology, political studies as well as math and science. World citizenship is enhanced as they gain understanding of world economies, developing economies, and our responsibility in aiding and sharing with other economies.

Assessments are conducted using a combination of tests, quizzes, and timed writings, research, presentations, and seminars. At the end of the course, students take the Economics SL Exam.

**Psychology, SL 334A00IW**  
**Grades: 11, 12 (Semesters: 2) 1 unit**

**Prerequisite:** Honors or Seminar English/Algebra 2; Teacher Recommendation

The course of study for IB Psychology focuses on the systematic study of human behavior and the mental and experiential factors that influence behavior. Students develop an understanding of the historical roots of psychology as well as an appreciation for the diversity of the human experience. Through the study of the three major perspectives in psychology – biological, behavioral, and cognitive – students focus on the skills of critical thinking and the methods of empirical investigation that are the hallmarks of psychology. This course introduces the systematic and scientific study of the behavior and mental processes of human beings and other animals. It includes a consideration of the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Students also learn about research methodology and ethics that psychologist use in their science and practice. Attention is given to ethical procedures and issues throughout the course.

Assessments are conducted using a combination of tests, quizzes, and timed writings, research, presentations, and seminars. At the end of the course, students take the Psychology SL Exam.

**Business and Organization, SL 381A00IW**  
**Grades: 11, 12 (Semesters: 2) 1 unit**

The business and management course aims to help students understand the implications of business activity in a global market. It is designed to give students an international perspective of business and to promote their appreciation of cultural diversity through the study of topics like international marketing, human resource management, growth and business strategy. The ideals of international cooperation and responsible citizenship are at the heart of Diploma Programme business and management. The course encourages the appreciation of ethical concerns and issues of social responsibility in the global business environment. Students should be able to make sense of the forces and circumstances that drive and restrain change in an interdependent and multicultural world. The business and management course contributes to students' development as critical and effective participants in local and world affairs.

**EXPERIMENTAL SCIENCES (GROUP 4)**

**Biology**

This course is designed to convey to students the role of biological sciences in their life and assist students with developing inquiry skills based on biological methodology. While focusing on these areas the students gain an international awareness of the biological sciences through an in-depth study of the multicultural scientists who have shaped the world of biology, research of international diseases and their origins, an in-depth look at global environmental issues, as well as an investigation of the impact of biological sciences on different cultures.

Students are assessed using a variety of tests, quizzes, essays, student presentations, lab reports, research, and in addition to the IB program's internal and external assessment.

**Biology, HL HL-1 322B00IW**  
**HL-2 322C00IW**

**Grades: 11, 12 (Semesters: 4) 2 units**

**Prerequisite:** Honors Biology I/Chemistry 1; teacher recommendation

This course is designed to convey to students the role of biological sciences and assist students with developing inquiry skills based on biological methodology. While focusing on these areas, students gain an international awareness of the biological sciences through an in-depth study of the multicultural scientists who have shaped the world of biology, research of international diseases and their origins, an in-depth look at global environmental issues, as well as an investigation of the impact of biological sciences on different cultures.

Students are assessed using a variety of tests, quizzes, essays, student presentations, lab reports, and research in addition to the IB program's internal and external assessment.

**Chemistry**

The purpose of the courses is to provide an introduction to chemistry using a logical presentation of the content combined with a focus on the following concepts: Stoichiometry, Atomic Theory, Periodicity, Bonding, States of Matter, Energetics, Kinetics, Equilibrium, Acids and Bases, Oxidation and Reduction, and Organic Chemistry. Students explore additional options in content beyond the core curriculum. Laboratory activities are crucial to the learning process to provide students with an opportunity to design experiments, investigate matter and energy, and to develop skills needed to present information to the global scientific community.

Students have numerous opportunities to analyze data and to critique all aspects of the laboratory process. The format includes a variety of instructional methods including class discussion, individual and group experiments, computer aided labs and learning, and lecture. Assessments include unit tests, quizzes, lab reports, the Internal Assessment of practical scheme of work, the Group 4 Project, and various other projects and activities in preparation for the External Assessment.

**Chemistry, SL 323A00IW**  
**Grades: 11, 12 (Semesters: 2) 1 unit**

**Prerequisite:** Honors Biology I/Chemistry 1; teacher recommendation

The curriculum includes 80 hours of core instruction and an additional 30 hours of optional instruction (options are chosen by the teacher). For the External Assessments, students are expected to complete Paper 1 — 30 multiple choice questions from the core; Paper 2 — a data based question, several short answer questions, and two extended response questions from the core; and Paper 3 — short answer questions from the options.

**Chemistry, HL HL-1 323B00IW**  
**HL-2 323C00IW**

**Grades: 11, 12 (Semesters: 4) 2 units**

**Prerequisite:** Honors Biology I/Chemistry 1; teacher recommendation

The curriculum includes 135 hours of core instruction and an additional 44 hours of optional instruction (options are chosen by the teacher). For the External Assessments, students are expected to complete Paper 1 — 40 multiple-choice questions from the core and options; Paper 2 — a data based question, several short answer questions, and two extended response questions from the core; and Paper 3 — short answer questions and an extended response question for each option studied.

**Physics**

The purpose of the course is to provide an introduction to physics using a logical presentation of the content combined with a focus on the following concepts: Physical Management, Mechanics, Thermal Physics, Wave Phenomena, Electromagnetism, Atomic and Nuclear Physics. Students explore additional options in content beyond the core curriculum. Laboratory activities are crucial to the learning process to provide students with an opportunity to design experiments, explore trends in the universe, and to develop skills needed to present information to the global scientific community. Students have numerous opportunities to analyze data and to critique all aspects of the laboratory process. The format includes a variety of instructional methods including class discussion, individual and group experiments, computer aided labs and learning, and lecture. Assessments include unit tests, quizzes, lab reports, the Internal Assessment of practical scheme of work, the Group 4 Project, and various other projects and activities in preparation for the External Assessment.

**Physics, SL 324A00IW**  
**Grades: 11, 12 (Semesters: 2) 1 unit**

**Prerequisite:** Honors Physical Science; Honors Physics I/ Biology I/Chemistry 1; teacher recommendation

The curriculum includes 80 hours of core instruction and an additional 30 hours of optional instruction (options are chosen by the teacher). For the External Assessments, students are expected to complete Paper 1 — 30 multiple choice questions from the core; Paper 2 — a data based question, several short answer questions, and two extended response questions from the core; and Paper 3 — short answer questions from the options.

**Physics, HL****HL-1 324B00IW**  
**HL-2 324C00IW****Grades: 11, 12 (Semesters: 4) 2 units****Prerequisite:** Honors Physical Science; Honors Biology I/ Chemistry 1; teacher recommendation

The curriculum includes 135 hours of core instruction and an additional 44 hours of optional instruction (options are chosen by the teacher). For the External Assessments, students are expected to complete Paper 1–40 multiple-choice questions from the core and options; Paper 2—a data based question, several short answer questions, and two extended response questions from the core; and Paper 3—short answer questions and an extended response question for each option studied.

**MATHEMATICS (GROUP 5)****Mathematics, SL****311F00IW****Grades: 11, 12 (Semesters: 2) 1 unit****Prerequisite:** Honors Algebra 1/Algebra 2/Geometry/ Probability and Statistics/ Pre-Calculus; AP Statistics/Calculus AB; teacher recommendation

This course is designed for students who already possess knowledge of basic mathematical concepts, and who are equipped with the skills needed to apply simple mathematical techniques correctly. Students interested in taking this course are those who expect to go on to study subjects that have a significant mathematical content, for example, chemistry, economics, geography and business administration. The course covers the same broad range of topics found in the higher-level course, but does not have the depth found in that program. Candidates starting this course are expected to have knowledge of the basic concepts and skills needed to apply mathematical techniques correctly.

The student's internal assessment component, the portfolio, offers a framework for developing independence in their mathematical learning by engaging in mathematical investigation and mathematical modeling. Students wishing to study subjects with a high degree of mathematical content should opt for the mathematics HL course rather than an SL course.

At the end of the course, students will take the IB Mathematics SL Exam.

**Mathematics, SL Seminar Honors****311I00HW****(for International Baccalaureate Mathematics SL)****Grades: 11 (Semesters: 2) 1 unit**

This course is a required link to International Baccalaureate Mathematics SL and is only open to those students enrolled in that course.

**Mathematics, HL****HL-1 311D00IW****HL-2 311E00IW****Grades: 11, 12 (Semesters: 4) 2 units****Prerequisite:** Advanced or Honors Algebra 1/Algebra 2/ Geometry/Probability and Statistics; AP Statistics/Calculus AB/Calculus BC; teacher recommendation

This course is designed for students with a good background in mathematics who are competent in a range of analytical and technical skills. The majority of these students are expected to include mathematics as a major component of their university studies, either as a subject in its own right or within courses such as physics, engineering and technology. Others may take this subject because they have a strong interest in mathematics and enjoy meeting its challenges and engaging with its problems. The nature of the subject is such that it focuses on developing important mathematical concepts in a comprehensible, coherent and rigorous way. This is achieved

by means of a carefully balanced approach. Students are encouraged to apply their mathematical knowledge to solving problems set in a variety of meaningful contexts. Development of each topic should feature justification and proof of results. Students take the IB Mathematics HL Exam at the end of the course.

**THE ARTS (GROUP 6)**

Students embark upon a journey of creative exploration and discovery that is determined by their personally chosen area of media concentration. The journey concludes with tangible documentation of philosophical and creative processes as well as of inquiries into the influence and significance of multicultural art and artists. In addition, students explore and refine their own personal and expressive style while delving deeply into their chosen media concentration. Journals are required of all Diploma Programme candidates as an instrument to engage students in the processes they experience. They reflect and research diverse methods of thought and creative insight as well as societal, historical, and cultural influences. A summative portfolio of artworks is essential for successful completion of either course with some of the artworks completed in earlier high school years.

**Visual Arts, SL****351B00IW****Grades: 11, 12 (Semesters: 2) 1 unit****Prerequisite:** Honors 2-D Design/3-D Design; teacher recommendation

In addition to the information provided above, candidates assemble a summative portfolio with a minimum of twenty (20) quality artworks and complete a minimum of four (4) journals reflecting their exploration and endeavors throughout the Diploma Programme journey. Two-dimensional artworks are matted while three-dimensional artworks are presented on slides for external evaluation of merit.

**Visual Arts, HL****HL-1 351C00IW****HL-2 351D00IW****Grades: 11, 12 (Semesters: 4) 2 units****Prerequisite:** Honors 2-D Design/3-D Design; teacher recommendation

In addition to the general information provided above, candidates assemble a summative portfolio with a minimum of thirty (30) quality artworks and complete a minimum of eight (8) journals reflecting their exploration and endeavors throughout the Diploma Programme journey. Two-dimensional artworks are matted while three-dimensional artworks are presented on pedestals and in cases for external evaluation of merit.

**Theatre Arts, SL****452A00IW****Grades: 11, 12 (Semesters: 2) 1 unit****Prerequisite:** Honors 2-D Design/3-D Design; teacher recommendation

The Theatre Arts programme encompasses many skills and in-depth studies. In this course, there is emphasis on the process as well as the product, the whole picture and not merely the sum of the parts; the body, the mind, the senses; the various cultures and their effect on life, art society, and the world. The objectives include having knowledge of the working elements as well as understanding of the interaction of these elements, or a feel for the overall picture, using reflection, analysis, and aesthetic valuing/criticism. The areas to be investigated are performance skills, world theatre studies, practical play analysis, and theatre production. There are both internal and external assessments designated by IB.

## Theatre, HL

HL-1 452B00IW  
HL-2 452C00IW

Grades: 11, 12 (Semesters: 4) 2 units

Prerequisite: Honors 2-D Design/3-D Design; teacher recommendation

In addition to the criteria designated in the Standard Level Theatre Arts course, students are required to complete an individual project. Designed for the student who wants to pursue theatre beyond high school, this course includes five compulsory parts: performance skills, world theatre studies, practical play analysis, and theatre production in addition to the individual project. Class assessments reflect these five components. External assessment includes research of a previously unfamiliar theatrical tradition and a practical play analysis.

## THEORY OF KNOWLEDGE (TOK)

Theory of Knowledge TOK HN1 338G00HH  
TOK HN2 338K01HH

Grades: 11, 12 (Semesters: 1) 1 Honors unit  
(.5 credit each)

This is a required course within the Diploma Programme, which spans one semester in the junior year and one semester in the senior year. Credit for the course is not given until successful completion of the senior year.

Students reflect on and question the bases of knowledge. Through a range of reading assignments and discussion, students become aware of the diverse beliefs within the school environment as well as around the world. They also learn to evaluate beliefs and make interdisciplinary connections by investigating the areas of knowledge: natural sciences, human sciences, history, arts, ethics, and mathematics. In addition, they are able to identify values underlying and knowledge claims pertinent to local and global issues. Assessments include a college-level essay and required presentations.

# COURSE DESCRIPTIONS

## ENGLISH

The Common Core State Standards for English Language Arts & Literacy in History/Social Studies, Science, and Technical Subjects (“the Standards”) are the culmination of an extended, broad-based effort to fulfill the charge issued by the states to create the next generation of K–12 standards in order to help ensure that all students are College and Career Ready (CCR).

Students advancing through the grades are expected to meet each year’s Grade specific standards, retain or further develop skills and understandings mastered in preceding grades, and work steadily toward meeting the more general expectations described by the CCR standard.

To meet the requirement for a South Carolina High School Diploma, students must earn four units in English and pass the English/Language Arts section of High School Assessment Program (HSAP). English 1, 2, 3 and 4 are required. All other offerings in the English department are electives.

**English 1 Part One** 301104CW  
(LHS, PHS, WKHS)  
Grade 9 1 unit elective credit

Enrollment in this pair of linked courses (English 1 Part One and Two) is based on standardized test scores. Part One is designed to strengthen literacy skills and strategies required by all content areas. A variety of print and on-line materials is used to enhance comprehension. Through reading and writing workshop and direct instruction, students build strategies for creating an assortment of visual, oral, and written responses in order to analyze texts. Students are expected to provide structured evidence of their learning. Part One is elective credit; students must complete Part Two to receive English One credit.

**English 1 Part Two** 301103CW  
(LHS, PHS, WKHS)  
Grade 9 1 unit

**Requirement:** The S.C. End-of-Course Examination Program requires students taking this course to take the English 1 End-of-Course Test.

Enrollment in this course occurs only with teacher recommendation. Students enrolled in English 1 Seminar Part Two must first complete English 1 Seminar Part One.

Upon successful completion of English 1 Seminar Part Two,

students will receive the required unit for English 1. English 1 Seminar Part Two is designed for students who have not met state-defined standards necessary to pass the HSAP. Instruction includes emphasis on essential standards in the context of literature and composition studies. Students may not select this course as a personal preference. This course is designed to help students become more sophisticated in their use of language. In implementing the writing process, students compose various types of texts including informational pieces and narratives. They proofread and edit for the correct use of the conventions of written Standard American English, and they improve the content and development, the organization, and the quality of voice in their writing through the use of revision strategies. This course emphasizes strategies needed to achieve proficiency on standardized tests and classroom assessments.

**English 1** 301100CW  
**Grade 9** 1 unit

**Requirement:** The S.C. End-of-Course Examination Program requires students taking this course to take the English 1 End-of-Course Test.

In this course, students write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of tasks, purposes, and audiences.

Students initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 9 topics, texts, and issues, building on others’ ideas and expressing their own clearly and persuasively.

Students are expected to apply knowledge of language to understand how language functions in different contexts, to make effective choices for meaning or style, and to comprehend more fully when reading or listening.

In addition, students acquire and use general academic and domain-specific words and phrases, sufficient for reading, writing, speaking, and listening at the college and career readiness level.

By the end of grade 9, students should be able to read and comprehend literature, including stories, dramas, and poems, as well as literacy nonfiction in the grade 9 text complexity band proficiently, with scaffolding as needed at the high end of the range.

## English 1 Honors Grade 9

**301100HW**  
**1 unit**

**Requirement:** The S.C. End-of-Course Examination Program requires students taking this course to take the English 1 End-of-Course Test; summer reading

**Recommended:** Grade of 85 or better in the previous English course

In this course, students write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of tasks, purposes, and audiences.

Students initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 9 topics, texts, and issues, building on others' ideas and expressing their own clearly and persuasively.

Students are expected to apply knowledge of language to understand how language functions in different contexts, to make effective choices for meaning or style, and to comprehend more fully when reading or listening.

In addition, students acquire and use accurately general academic and domain-specific words and phrases, sufficient for reading, writing, speaking, and listening at the college and career readiness level.

Students engage in Socratic Seminars where they seek deeper understanding of complex ideas in text through rigorously thoughtful dialogue.

Honors students are expected to read and comprehend complex literary and informational texts independently and proficiently.

## English 2 Grade 10

**301200CW**  
**1 unit**

**Prerequisite:** English 1

In this course, students write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of tasks, purposes, and audiences.

Students initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 10 topics, texts, and issues, building on others' ideas and expressing their own clearly and persuasively.

Students are expected to apply knowledge of language to understand how language functions in different contexts, to make effective choices for meaning or style, and to comprehend more fully when reading or listening.

In addition, students acquire and use accurately general academic and domain-specific words and phrases, sufficient for reading, writing, speaking, and listening at the college and career readiness level.

By the end of grade 10, students should be able to read and comprehend literature, including stories, dramas, and poems, as well as literacy nonfiction in the grade 10 text complexity band proficiently, with scaffolding as needed at the high end of the range.

## English 2 Honors Grade 9, 10

**301200HW**  
**1 unit**

**Prerequisite:** English 1 or English 1 Honors

**Requirement:** Summer reading, Socratic Seminars

**Recommended:** Grade of 85 or better in the previous English course

In this course, students write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of tasks, purposes, and audiences.

Students initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 10 topics, texts, and issues, building on others' ideas and expressing their own clearly and persuasively.

Students are expected to apply knowledge of language to understand how language functions in different contexts, to make effective choices for meaning or style, and to comprehend more fully when reading or listening.

In addition, students acquire and use accurately general academic and domain-specific words and phrases, sufficient for reading, writing, speaking, and listening at the college and career readiness level.

Students engage in Socratic Seminars where they seek deeper understanding of complex ideas in text through rigorously thoughtful dialogue.

Honors students are expected to read and comprehend complex literary and informational texts independently and proficiently.

## English 3 Grade 11

**301300CW**  
**1 unit**

**Prerequisite:** English 2

In this course, students gather relevant information from multiple authoritative print and digital sources, using advanced searches effectively; assess the strengths and limitations of each source in terms of the task, purpose, and audience; integrate information into the text selectively to maintain the flow of ideas, avoiding plagiarism and over-reliance on any one source and following a standard format for citation.

Students write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of tasks, purposes, and audiences.

Students must initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 11 topics, texts, and issues, building on others' ideas and expressing their own clearly and persuasively.

Students must be able to present information, findings, and supporting evidence, conveying a clear and distinct perspective, such that listeners can follow the line of reasoning, alternative or opposing perspectives are addressed, and the organization, development, substance, and style are appropriate to purpose, audience, and a range of formal and informal tasks.

Students will acquire and use accurately general academic and domain-specific words and phrases, sufficient for reading, writing, speaking, and listening at the college and career readiness level.

Students in grade 11 must demonstrate knowledge of eighteenth-, nineteenth- and early-twentieth-century foundational works of American literature, including how two or more texts from the same period treat similar themes or topics.

By the end of grade 11, students are expected to read and comprehend literature, including stories, dramas, and poems, as well as literacy nonfiction in the grades 11–CCR text complexity band proficiently, with scaffolding as needed at the high end of the range.

## English 3 Honors Grade 10, 11

**301300HW**  
**1 unit**

**Prerequisite:** English 2 or English 2 Honors

**Requirement:** Summer reading, Socratic Seminars

**Recommended:** Grade of 85 or better in the previous English course

In this course, students gather relevant information from multiple authoritative print and digital sources, using advanced searches effectively; assess the strengths and limitations of each source in terms of the task, purpose, and audience; integrate information into the text selectively to maintain the flow of ideas, avoiding plagiarism and overreliance on any one source and following a standard format for citation.

Students write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of tasks, purposes, and audiences.

Students must initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 11 topics, texts, and issues, building on others' ideas and expressing their own clearly and persuasively.

Students engage in Socratic Seminars where they seek deeper understanding of complex ideas in text through rigorously thoughtful dialogue.

Students must be able to present information, findings, and supporting evidence, conveying a clear and distinct perspective, such that listeners can follow the line of reasoning, alternative or opposing perspectives are addressed, and the organization, development, substance, and style are appropriate to purpose, audience, and a range of formal and informal tasks.

Students will acquire and use accurately general academic and domain-specific words and phrases, sufficient for reading, writing, speaking, and listening at the college and career readiness level.

Students in grade 11 must demonstrate knowledge of eighteenth-, nineteenth- and early-twentieth-century foundational works of American literature, including how two or more texts from the same period treat similar themes or topics.

Honors students are expected to read and comprehend complex literary and informational texts independently and proficiently.

## English 4 Grade 12

**301400CW**  
**1 unit**

**Prerequisite:** English 3

**Requirement:** Senior writing portfolio, Senior Experience

In this course, students gather relevant information from multiple authoritative print and digital sources, using advanced searches effectively; assess the strengths and limitations of each source in terms of the task, purpose, and audience; integrate information into the text selectively to maintain the flow of ideas, avoiding plagiarism and overreliance on any one source and following a standard format for citation.

Students write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of tasks, purposes, and audiences.

Students must initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 12 topics, texts, and issues, building on others' ideas and expressing their own clearly and persuasively.

Students must be able to present information, findings, and supporting evidence, conveying a clear and distinct perspective, such that listeners can follow the line of reasoning, alternative or opposing perspectives are addressed, and the organization, development, substance, and style are appropriate to purpose, audience, and a range of formal and informal tasks.

Students will acquire and use accurately general academic and domain-specific words and phrases, sufficient for reading, writing, speaking, and listening at the college and career readiness level.

Students will analyze seventeenth-, eighteenth-, and nineteenth-century foundational U.S. documents of historical and literary significance for their themes, purposes, and rhetorical features.

By the end of grade 12, students are expected to read and comprehend literature, including stories, dramas, and poems, as well as literacy nonfiction at the high end of the grades 11–CCR text complexity band independently and proficiently.

The Senior Experience, comprised of a paper, product, and presentation, has a computational weight of 20 percent in the final course average, and there is no final exam.

## English 4 Honors (PHS, WKHS)

**301400HW**

**Grades 11, 12**

**1 unit**

**Prerequisite:** English 3 or English 3 Honors

**Requirement:** Summer reading, senior writing portfolio, Senior Experience, Socratic Seminars

**Recommended:** Grade of 85 or better in the previous English course

In this course, students gather relevant information from multiple authoritative print and digital sources, using advanced searches effectively; assess the strengths and limitations of each source in terms of the task, purpose, and audience; integrate information into the text selectively to maintain the flow of ideas, avoiding plagiarism and over-reliance on any one source and following a standard format for citation.

Students write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of tasks, purposes, and audiences.

Students must initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 12 topics, texts, and issues, building on others' ideas and expressing their own clearly and persuasively.

Students engage in Socratic Seminars where they seek deeper understanding of complex ideas in text through rigorously thoughtful dialogue.

Students must be able to present information, findings, and supporting evidence, conveying a clear and distinct perspective, such that listeners can follow the line of reasoning, alternative or opposing perspectives are addressed, and the organization, development, substance, and style are appropriate to purpose, audience, and a range of formal and informal tasks.

Students will acquire and use accurately general academic and domain-specific words and phrases, sufficient for reading, writing, speaking, and listening at the college and career readiness level.

Students will analyze seventeenth-, eighteenth-, and nineteenth-century foundational U.S. documents of historical and literary significance for their themes, purposes, and rhetorical features.

Honors students are expected to read and comprehend complex literary and informational texts independently and proficiently.

The Senior Experience, comprised of a paper, product, and presentation, has a computational weight of 20 percent in the final course average, and there is no final exam.

**Advanced Placement English 4** **307101AW**  
(GHS, LHS, RBHS, WKHS)  
**Grade 11, 12** **1 unit**

**Prerequisite:** English 3 Honors or English 3

**Requirements:** AP Language and Composition Exam, summer reading/assignment, senior writing portfolio and Senior Experience

Students engage in rigorous study of British literature, including a thorough understanding of its themes and periods. This course enables students to read complex texts with understanding and to write prose of sufficient richness and complexity to communicate effectively. Students write both informal and formal contexts to gain authority and learn to take risks in writing. As well as engaging in varied writing tasks, students become acquainted with a wide variety of prose styles from many disciplines and historical periods and gain understanding of the connections between writing and interpretive skill in reading. The Senior Experience has a computational weight of 20 percent in the final course average, and there is no final exam.

**Advanced Placement English 5** **307000AW**  
**Grade 12** **1 unit**

**Prerequisite:** English 4 Honors, English 4 or AP English 4

**Requirements:** AP Literature and Composition Exam, English 5 Extension Honors linked course, summer reading/assignment

**Recommended:** Grade of 85 or better in the previous English course

Students enrolled in these courses must demonstrate a high level of motivation and achievement in the prerequisite coursework. Students engage in rigorous study of 20th century British literature plus selections from world literature. Compositions focus on the analytical skills needed for the AP exam. Complementary reading (during the summer and school year) is required. The course meets the objective of a general English course at the college level. The College Board determines the course description; therefore, the content of this course must adhere to those requirements. This course is linked to a required half-unit extension honors course.

**English 5 Extension Honors** **307001HH**  
(for Advanced Placement English 5)  
(GHS, LHS, PHS, WKHS)  
**Grade 12** **½ unit**

This course is a required link to Advanced Placement English 5 and is only open to those students enrolled in that course.

**Advanced Composition and Creative Writing** **303000CW**  
**Grades 10–12** **1 unit**

This course is for students who desire additional writing instruction before attempting college English courses. Many composition assignments are the same as those required in major college freshman English programs. The course emphasizes all phases of the writing process. Related topics range from the use of computers in writing to the preparation of students' creative writing for publication.

**ESOL** **379900CW**  
**Grades 9–12**

**Level One–1 unit elective credit**

**Level Two–.5 unit elective credit**

**Prerequisite:** Language Acquisition Scale (LAS) and/or English Language Development Assessment (ELDA) scores with teacher recommendation

For English to Speakers of Other Languages (ESOL) students only, these support classes are designed to provide instruction and/or assistance to non-English Speaking (NES) and Limited English Proficient (LEP) students. The objective is to develop skills in reading, writing, listening and speaking. Emphasis is placed on context-related vocabularies to promote success in all core areas. All ESOL support classes are aligned to the SC ESOL Standards. These courses may be taken in combination with English 1, 2, 3 or 4.

**Film Studies** **309925CW**  
(PHS, RBHS, WKHS)  
**Grades 9–12** **1 unit**

**Prerequisite:** English 1

This course is an interdisciplinary approach to film and is designed to enhance students' media literacy and give them a fundamental understanding of the development, range, social impact and technical aspects of this art form. The course helps students become more discriminating patrons of the film arts by focusing on exploring character, analyzing technique and analyzing thematic value. It also helps students examine how films convey meaning and both reflect and influence culture. Students examine films through discussions and various forms of writing, including reviews, viewing journals, multimedia projects and essays.

**HSAP Prep ELA** **379907CW**  
**Grades 9–12** **1 unit**

This course is for students who have not mastered the English/language arts section of the South Carolina High School Assessment Program (HSAP), which is required for all high school students. The course focuses on a variety of instructional materials and activities, which is presented through direct teaching, large and small group activities and computer-assisted lessons.

**Literary Moves** **309924CW**  
(WKHS)  
**Grades 10–12** **1 unit**

The art of expression is woven through all avenues of communication. Whether by words, body language, or musical or visual arts, people hope to reveal their inner most thoughts and emotions. This course blends dance and literature as students explore the meaning of artistic expression and the effective ways one can use his/her mind and body as tools of creative communication. With words and ideas as inspiration, dancers of all experience levels will broaden their knowledge of various forms of dance technique while also delving into a richer understanding of the written word.

**World Mythology** **309913CW**  
(LHS)  
**Grades 10–12** **1 unit**

This course extends current knowledge of world mythology to include Greek/Roman, Norse, Middle Eastern, Native American and Far Eastern. The course includes an exploration of modern mythology, including urban legends. Students also explore the current uses of mythology in film and media. Course requirements involve reading, class discussion and writing (expository and creative).

**Public Speaking 1** 304000CW  
**Grades 9–12** 1 unit

This course focuses on a variety of communication activities including specialized writing, oratory and motivational expression. Debate is a possible component of this class.

**Public Speaking 2** 304000HW  
**Honors (LHS, WKHS)**  
**Grades 9–12** 1 unit

**Prerequisite:** Public Speaking 1

**Recommended:** English 2 and a computer course

This course extends students' public speaking knowledge from basic presentations and skills to developing professional techniques. It focuses on Lincoln-Douglas debate, extemporaneous, original oratory, dramatic and humorous interpretation (including poetry), and duo interpretation. It addresses effective delivery habits and the application of multimedia presentations into speeches.

**Southern Literature** 309902CW  
**(WKHS)**  
**Grades 11, 12** 1 unit

**Prerequisite:** English 3, completed or concurrent

This course focuses on Southern writers and themes that are common to Southern literature. It examines the historical context of the works studied as well as the authors' styles. Readings are taken from a variety of genres: short story, poetry, drama and novel. Both reading and writing are emphasized.

**JOURNALISM**

**Journalism Introduction** 305000CW  
**(GHS, LHS, RBHS, WKHS)**  
**Grades 9–12** 1 unit

**Recommended:** Grade of 80 or better in previous English course

This course is designed to provide initial exposure to newspaper, yearbook and broadcasting production skills as well as to journalistic theory and history. The course teaches basic skills needed for writing news, features, editorials and sports stories. Emphasis is placed on sound journalistic principles. The course focuses on journalistic writing skills and information-gathering techniques, and introduces students to concepts of design and photojournalism.

**Broadcasting Production** 529900CW  
**Grades 9–12** 1 unit

**Prerequisite:** Interview and portfolio

**Recommended:** Grade of 80 or better in Journalism Introduction and English class

This course is for students who have mastered the skills taught in Journalism Introduction. This course teaches writing broadcast copy, using video cameras and microphones, lighting and editing. The class produces a weekly news show.

**Broadcasting Editing Honors** 529901HW  
**Grades 10–12** 1 unit

**Prerequisite:** Interview and portfolio

**Recommended:** Grade of 85 or better in Broadcasting Production and English class

This course is designed for serious broadcasting students who are editors of the school news show for the year. Students gain experience in directing all aspects of broadcasting from planning to publishing. This course focuses on broadcast production policy and advanced instruction in broadcasting production skills. Students are held accountable for all aspects of the broadcast. Work sessions after school are required.

**Newspaper Production** 305304CW  
**(GHS, LHS, WKHS)**

**Grades 9–12** 1 unit

**Prerequisite:** Interview and portfolio

**Recommended:** Grade of 80 or better in Journalism Introduction and English class

This course is for students who have mastered the skills taught in Journalism Introduction. Students sharpen their writing skills and edit other staff members' work as well as use more advanced design principles to produce a school newspaper. Students are given out-of-class photography assignments and work sessions after school are required.

**Newspaper Editing Honors** 305304HW  
**(GHS, LHS, WKHS)**

**Grades 10–12** 1 unit

**Prerequisite:** Interview and portfolio

**Recommended:** Grade of 85 or better in Newspaper Production and English class

This course is designed for serious newspaper students who are editors of the school newspaper for the year. Students gain experience in directing all aspects of publication from planning to publishing. This course focuses on financial management, publication editorial policy, advanced editing skills and publication design. Students are responsible for all aspects of the publication. Work sessions after school are required.

**Yearbook Production** 305401CW  
**Grades 9–12** 1 unit

**Prerequisite:** Interview and portfolio

**Recommended:** Grade of 80 or better in Journalism Introduction and English class

This course is for students who have mastered the skills taught in Journalism Introduction. This course is designed to provide initial exposure to yearbook production skills. Students study journalistic writing style and page design. The course covers typography usage and photography skills. Work sessions after school are required.

**Yearbook Editing Honors** 305401HW  
**Grades 10–12** 1 unit

**Prerequisite:** Interview and portfolio

**Recommended:** Grade of 85 or better in Yearbook Production and English class

This course is designed for serious yearbook students who are editors of the school yearbook for the year. Students gain experience in directing all aspects of publication from planning to publishing. This course focuses on financial management, publication editorial policy, editing skills and publication design. Students are responsible for all aspects of the publication. Work sessions after school are required.

## MATHEMATICS

In order to receive a South Carolina High School Diploma, students are required to earn at least four units in mathematics and pass the mathematics section of the HSAP. Additionally, the Commission on Higher Education (CHE) requires a minimum of three units in mathematics (including Algebra 1, Algebra 2, and Geometry) for applicants to four-year programs in South Carolina public colleges and universities. Algebra 1, Part One and Algebra 1 Part Two may count together as a substitute for Algebra 1 if a student successfully completes Algebra 2.

To ensure a well-rounded mathematics curriculum, students are required to take courses in algebra, geometry and statistics. Knowledge of mathematics is needed by 21st Century Graduates to be successful in most careers and/or professions. Students are encouraged to take at least one course in mathematics each year and more than the required four units. Students should pay special attention to course descriptions that recommend a minimum grade average in a prior course. Students not achieving this average are advised to take steps to improve their understanding of the prerequisite content before taking subsequent courses.

The South Carolina End-of-Course Examination Program (EOCEP) includes an end-of-course test for mathematics. At the completion of Algebra 1 Honors, Algebra 1 or Algebra 1 Part Two, students are required to take the state-developed Algebra 1/Mathematics for the Technologies 2 End-of-Course Test. This test is the final exam for Algebra 1 Honors, Algebra 1 and Algebra 1 Part 2.

**Introduction to Algebra** **319909CW**  
(LHS, PHS, WKHS)  
**Grade 9** **1 unit elective credit**

**Algebra 1–Part One** **314101CW**  
**Grade 9** **1 unit math credit**

**Enrollment in this pair of linked courses (students must enroll in both courses) is based on standardized test scores. Students may not select this pair of courses as a personal preference.**

These linked courses present the content of Algebra 1 Part One extended throughout the 180-day school year with remediation of foundational skills integrated throughout the year. Emphasis is placed on mathematics concepts and skills as they are applied in the context of problems in the Algebra 1 Part One curriculum. Based on the concepts of arithmetic, pre-algebra and algebra, these linked courses emphasize the ability to understand and apply mathematics to solve problems. Classroom instruction and applications are used to emphasize real-world problems, problem-solving techniques, estimation skills, measurement skills, geometry, data analysis, simple statistics and the use of algebraic formulas. Graphing calculators and/or computer software are utilized to solve problems and graphically display data. This pair of linked courses emphasizes the content students need in preparation for standardized tests and classroom assessments.

**Algebra 1 Part One** **314102CW**  
**Grade 9, 10** **1 unit**

This course emphasizes the application and practice of algebraic concepts and skills. Classroom instruction and applications are used to emphasize real-world problems, problem-solving techniques, estimation skills, measurement skills, geometry, data analysis, simple statistics and the use of algebraic formulas. Students work with real numbers as they learn about linear functions, equations and inequalities, operations with polynomials and graphing. Graphing calculators and/or computer software are used as needed to

solve problems and graphically display data. This course emphasizes the content students need in preparation for standardized tests and classroom assessments. Students have been taught all Algebra 1 content upon the completion of both Algebra 1 Part One and Algebra 1 Part Two.

**Algebra 1 Part Two** **314200CW**  
**Grades 9, 10** **1 unit**

**Prerequisite:** Algebra 1 Part One

**Requirement:** The South Carolina End-of-Course Examination Program requires students taking this course to take the Algebra 1/Mathematics for the Technologies 2 End-of-Course Test.

This course emphasizes the application of mathematics to problems involving both linear and non-linear functions. Students use linear functions, equations and inequalities, graphing, data analysis, basic statistics, radicals and quadratic functions to solve problems involving real numbers. Graphing calculators and/or computer software are utilized as needed to solve problems and graphically display data. This course emphasizes the content students need in preparation for standardized tests and classroom assessments. Students have been taught all Algebra 1 content upon completion of Algebra 1 Part One and Algebra 1 Part Two.

**Algebra Enrichment** **319912CW**  
(LHS, WKHS)  
**Grade 9** **1 unit elective credit**

This course provides students with a comprehensive presentation of the prerequisite skills and concepts to understand and apply mathematics and the problem-solving processes needed for the study of Algebra I. This course counts as elective credit only and does not satisfy the math requirement for promotion from Grade 9 to 10.

**Algebra 1** **411100CW**  
**Grade 9, 10** **1 unit**

**Requirement:** The South Carolina End-of-Course Examination Program requires students taking this course to take the Algebra 1/Mathematics for the Technologies 2 End-of-Course Test.

This course is a study of the concepts and problem-solving processes contained in the basic structure of algebra. Topics studied include the real number system, equations and inequalities, operations with polynomials, radicals, quadratics and graphing. In addition to traditional computational methods, students use graphing calculators and/or computer software as tools for problem solving.

**Algebra 1 Honors** **411100HW**  
**Grade 9** **1 unit**

**Requirement:** The South Carolina End-of-Course Examination Program requires students taking this course to take the Algebra 1/Mathematics for the Technologies 2 End-of-Course Test.

**Recommended:** Grade of 85 or higher in previous math course

This course is designed for students who have demonstrated exceptional mathematical abilities. It includes applications of algebraic concepts and problem-solving processes that require abstract reasoning abilities and/or a creative analysis of information. Topics include the real number system, equations and inequalities, operations with polynomials, radicals, quadratics and graphing. Problems that involve both linear and non-linear functions are included. In addition to traditional computational methods, students use graphing calculators and/or computer software as tools for problem solving.

**Algebra 2** 411200CW  
**Grades 9–12** 1 unit

**Prerequisite:** Algebra 1 or Algebra 1 Part One and Two

**Recommended:** Grade of 80 or higher in Algebra 1

This course continues the development of algebraic concepts and skills. Students use equations, inequalities, real numbers and polynomials to solve problems. Additional topics include conic sections, quadratic functions, exponential functions, logarithmic functions and matrices. In addition to traditional computational methods, students use graphing calculators and/or computer software as tools for problem solving.

**Algebra 2 Honors** 411200HW  
**Grades 9–12** 1 unit

**Prerequisite:** Algebra 1

**Recommended:** Grade of 85 or higher in Algebra 1 Honors

This course is designed for students who have demonstrated exceptional mathematical capabilities during the study of Algebra 1. It facilitates the development of proficiency in solving equations and inequalities, using radicals and manipulating polynomials. Additional topics include conic sections, quadratic functions exponential functions, logarithmic functions, and matrices. In addition to traditional computational methods, students use graphing calculators and/or computer software as tools for problem solving.

**Geometry Concepts** 314300CW  
**Grades 10–12** 1 unit

**Prerequisite:** Algebra 1 or Algebra 1 Part One and Two

This course focuses on the study of the characteristics and properties of plane and solid geometric figures. Students apply knowledge of geometric concepts and principles to solve problems with an emphasis on numerical applications. Students study and write geometric proofs, but writing formal proofs is not emphasized. The study of geometric methods of construction is also included. In addition to traditional computational methods, students use graphing calculators and/or computer software as tools for problem solving.

**Geometry Theory** 412100CW  
**Grades 10–12** 1 unit

**Prerequisite:** Algebra 2

**Recommended:** Grade of 80 or higher in Algebra 2

This course focuses on the study of the characteristics and properties of plane and solid geometric figures. Students apply their knowledge of geometric concepts and principles to solve problems with an emphasis on theoretical characteristics and principles. Students solve problems involving numerical applications of geometric concepts and principles, and develop logical reasoning through writing geometric proofs. In addition to traditional computational methods, students use graphing calculators and/or computer software as tools for problem solving.

**Geometry Honors** 412100HW  
**Grades 10–12** 1 unit

**Prerequisite:** Algebra 2

**Recommended:** Grade of 85 or higher in Algebra 2

This course provides a comprehensive study of geometric concepts and principles. Students are required to apply geometric theorems to problem-solving situations that require abstract reasoning abilities. Logical reasoning is developed through various kinds of proofs. In addition to traditional computational methods, students use graphing calculators and/or computer software as tools for problem solving.

**Probability and Statistics Concepts** 314400CW

**Grades 10–12** 1 unit

**Prerequisite:** Algebra 1 or Algebra 1 Part One and Two

**Recommended:** Access to a graphing calculator outside the classroom

This course includes the study of up-to-date statistical topics and techniques needed to understand consumer-oriented statistics encountered routinely in newspapers and other media. Learning experiences include collecting, organizing, displaying, analyzing and interpreting data. Students analyze data using formulas and related concepts. In addition to traditional computational methods, students use graphing calculators and/or computer software as tools for problem solving.

**Probability and Statistics Theory** 414100CW

**Grades 10–12** 1 unit

**Prerequisite:** Algebra 1

**Recommended:** Grade of 80 or higher in Algebra 2, access to a graphing calculator outside the classroom

This course includes the study of probability, statistics and discrete mathematics topics, and serves as a bridge between Algebra 2 and Pre-Calculus. Students collect, organize, display, analyze and interpret data. Topics such as sequences, series, matrices, vectors, mathematical induction and special graphs are applied to solve problems. In addition to traditional computational methods, students use graphing calculators and/or computer software as tools for problem solving.

**Probability and Statistics Honors (PHS, WKHS)** 414100HW

**Grades 10–12** 1 unit

**Prerequisite:** Algebra 1

**Recommended:** Grade of 85 or higher in Algebra 2 Honors, access to graphing calculator outside the classroom

This course includes the study of probability, statistics and discrete mathematics topics, and serves as a bridge between Algebra 2 and Pre-Calculus. Students engage in the collection, organization, display, analysis and interpretation of data. Topics such as sequences, series, matrices, vectors, mathematical induction and special graphs are applied to solve problems. Fundamentals of inferential statistics are studied. In addition to traditional computational methods, students use graphing calculators and/or computer software as tools for problem solving.

**Advanced Placement Statistics (GHS, LHS, RBHS, WKHS)** 417100AW

**Grades 10–12** 1 unit

**Prerequisite:** Algebra 2

**Requirement:** Advanced Placement Statistics Exam, Statistics Extension Honors linked course, summer reading/assignment

**Recommended:** Access to a graphing calculator outside the classroom

This course is appropriate for students pursuing a degree in mathematics, engineering, psychology, sociology, health science or business. Four basic concepts are studied: exploring data, planning a statistical study, anticipating patterns using probability and simulations, and drawing statistical inferences. The course is equivalent to an introductory non-calculus college course in statistics. The College Board determines the course description; therefore, the content of this course must adhere to those requirements. This course is linked to a required half-unit-honors course.



**Advanced Placement  
Computer Science (LHS, RBHS) ★  
Grades 11, 12**

**477200AW  
1 unit elective credit**

**Prerequisite:** Algebra 2, Computer Programming 1

**Requirement:** Advanced Placement Computer Science exam, Computer Science Extension Honors linked course, summer reading/assignment

**Recommended:** A score of 55/550 on the mathematics section of the PSAT/SAT

Students taking this course are prepared to take both the Computer Science A and Computer Science AB tests. Computer Science A emphasizes programming methodology and procedural abstraction. Computer Science AB includes all of the topics of Computer Science A as well as an in-depth study of algorithms, data structures and data abstraction. The current programming language for Advanced Placement is Java. The College Board determines the course description; therefore, the content of this course must adhere to those requirements. Students taking this course should be able to access a computer outside of class for at least two hours per week. A creative, independent study project is required. This course is linked to a required half-unit honors course and meets the statewide Carnegie unit requirement for computer science.

**HSAP Prep Math  
Grades 10–12**

**379908CW  
1 unit elective credit**

This course serves students who have not mastered the mathematics section of the South Carolina High School Assessment Program (HSAP), which is required for all high school students. The course focuses on a variety of instructional materials and activities. Instruction is presented through direct teaching, large and small group activities, and computer-assisted lessons.

## SCIENCE

The Commission on Higher Education (CHE) requires three units of laboratory science for admission to SC state-supported four-year colleges. Two units must be in two different fields and selected from among biology, chemistry and physics. The third unit may come from the same field as one of the first two units. Courses taken that have a prerequisite of Biology 1 and/or Chemistry 1 also count as laboratory sciences for CHE credit. All students are required to take Biology 1. The South Carolina End-of-Course Examination Program includes the end-of-course test in Biology 1.

**Physical Science  
(GHS, PHS, WKHS)  
Grades 9, 10**

**321100CW  
1 unit**

**Prerequisites:** Completed or concurrently taking Algebra 1 or Algebra 1 Part One and Part Two

This course is a study of the principal concepts of chemistry and physics. Laboratory investigations that address the course inquiry science standards and mathematical applications are an integral part of this course. Chemistry units include composition and classification of matter, atomic structure and periodic table, and chemical reactions. Physics units include forces and motion, conservation of energy, electricity and wave phenomena. All South Carolina Physical Science Academic Standards are addressed. Students conduct group research throughout the term.

**Biology 1  
Grades 9, 10**

**322100CW  
1 unit CHE lab credit**

**Requirement:** The S.C. End-of-Course Examination Program requires students taking this course to take the Biology 1 End-of-Course Test.

This course covers the major concept areas of biological science including: the cell; molecular basis of heredity; biological change; diversity in living systems; and environmental relationships. The student develops an understanding and appreciation of all living things and their critical relationship with one another. Laboratory investigations that address the biology inquiry standard are an essential aspect of this course. All of the South Carolina Biology Academic Standards are addressed.

**Biology 1 Honors  
Grades 9, 10**

**322100HW  
1 unit CHE lab credit**

**Requirement:** The S.C. End-of-Course Examination Program requires students taking this course to take the Biology 1 End-of-Course Test.

Within the framework of development from simplest to the most complex, the unique structures, processes, and organization of life forms are treated in-depth through the study of cells; genetics; biological change and diversity of life; matter, energy, and organization in living systems; and the interrelationship between organisms and the environment. This course serves as a foundation for the student interested in pursuing AP Biology 2. Extensive laboratory investigations are an integral part of this course. Independent and group investigations and research are conducted throughout the course. All the South Carolina Biology Academic Standards are addressed.

**Biology 2  
Grades 10, 11, 12**

**322200CW  
1 unit CHE lab credit**

**Prerequisite:** Biology 1

This course is designed to prepare students for many college-level Biology courses. It is taught in a hands-on, real-world manner. The concepts of this course include: the environment and current environmental issues, animal behavior, plants, evolution, and classification with a specific focus on each of the kingdoms. Biology 2 also includes animal anatomy and physiology through the use of dissections.

**Advanced Placement  
Biology 2  
Grades 10, 11, 12**

**327200AW  
1 unit CHE lab credit**

**Prerequisite:** Biology 1

**Requirement:** AP Biology Exam, Biology 2 Extension Honors linked course, summer reading/assignment

**Recommended:** Chemistry 1 (completed), a 55/550 on the verbal section of the PSAT/SAT or 25 on the PLAN/ACT verbal

This course is a second year of intensive biology designed to prepare students to take the Advanced Placement Biology Examination. The course meets the objective of a general biology course at the college level. The College Board determines the course description (including dissection); therefore, the content of this course must adhere to those requirements. This course is linked to a required one-unit honors course.

**Biology 2 Extension Honors  
(for Advanced Placement Biology)  
Grades 10, 11, 12**

**327201HW  
1 unit**

This course is a required link to Advanced Placement Biology 2 and is only open to those students enrolled in that course.

**Environmental Studies** 326100CW  
**—Nature Study**  
**Grades 9 (LHS, PHS, RBHS)** 1 unit  
**Grades 10, 11, 12 (GHS, WKHS)** 1 unit  
**Recommended:** Should have completed Biology 1

This course is designed to assist students in developing awareness, knowledge and skills needed to make informed decisions concerning wildlife and the environment. Topics include wildlife and ecological systems, conservation, plant and animal diversity, and wildlife issues and trends. Laboratory activities, including field studies, are an aspect of this course.

**Environmental and Marine Science** 322500CW  
**Grades 10–12** 1 unit CHE lab credit  
**Prerequisite:** Biology 1

This course is for students with an interest in science and/or may be considering a career in environmental or marine science. Lab, classroom work and independent research are required for an in-depth study of: land, marine and coastal ecosystems; plant and animal life; and ecological principles. The course integrates current events and topics in marine and environmental science with textbook information. A required dissection of a marine organism enhances the study of these unique animals.

**Advanced Placement Environmental Science** 327700AW  
**(GHS, PHS, RBHS, WKHS)**  
**Grades 10–12** 1 unit CHE lab credit  
**Prerequisite:** Biology 1, Chemistry 1

**Requirement:** AP Environmental Science Exam, Environmental Science Extension Honors linked course, summer/reading assignment

This course is designed to be the equivalent of a one-semester introductory college course in environmental science. The goal of the course is to provide students with scientific principle, concepts and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems and to examine alternative solutions for resolving and/or preventing them. The College Board determines the course description; therefore, the content of this course must adhere to those requirements. This course is linked to a required half-unit extension honors course.

**Environmental Science Extension Honors** 327702HW  
**(for Advanced Placement Environmental Science)**  
**(GHS, PHS, RBHS, WKHS)**  
**Grades 10–12** 1 unit

This course is a required link to Advanced Placement Environmental Science and is only open to those students enrolled in that course.

**Anatomy and Physiology** 326300CW  
**Grades 10, 11, 12** 1 unit CHE lab credit  
**Prerequisite:** Biology 1

**Recommended:** Grade of 85 or better in Biology 1

This course is designed to extend the learning in Biology 1 for students interested in possible health and medical careers. The content applies to the human body and the molecular and cellular bases of organisms as taught in Biology 1. The content provides knowledge of individual functioning units of the body and how they complement the whole body organism. Students attain a working vocabulary of medical terminology. Laboratory investigations are a routine portion of the class.

**Chemistry 1** 323100CW  
**Grades 10, 11, 12** 1 unit CHE lab credit  
**Prerequisite:** Biology 1, Algebra 1 (non-concurrent)

**Recommended:** Grade of 80 or better in Algebra I

This course deals with the nature and structure of matter, the periodic system, chemical reactions, balancing equations, mathematics of chemistry, gases, solutions and solubility, calorimetry and acid-base relationships. Emphasis is placed on problem solving. Laboratory activities that address the course inquiry standards are coordinated with and enhance the course content based on the South Carolina Chemistry Academic Standards.

**Chemistry 1 Honors** 323100HW  
**Grades 10–12** 1 unit CHE lab credit  
**Prerequisite:** Biology 1, Algebra 2

**Recommended:** Grade of 85 or better in math courses

This course is an in-depth study of the chemical principles described in Chemistry 1 with emphasis placed on chemical calculations. Appropriate laboratory activities that address the course inquiry standards are coordinated with the course content based on the South Carolina Chemistry Academic Standards.

**Chemistry 2** 323200CW  
**(LHS, RBHS, WKHS)**  
**Grades 11, 12** 1 unit CHE lab credit

**Prerequisite:** Chemistry 1, Algebra 2

**Recommended:** Grade of 80 or better in math and science courses

This course is an in-depth study of chemical principles with appropriate laboratory activities enhancing the content. Mathematical skills are essential. The course expands on Chemistry 1 Theory and covers such new topics as thermodynamics, equilibrium and electrochemistry. Emphasis is placed on problem solving and critical thinking.

**Advanced Placement Chemistry 2 (LHS, RBHS, WKHS)** 327300AW  
**Grades 11, 12** 1 unit CHE lab credit

**Prerequisite:** Chemistry 1, Algebra 2

**Requirement:** AP Chemistry Exam, Chemistry 2 Extension Honors linked course, summer reading/assignment

**Recommended:** Grade of 85 or better in math and Chemistry 1, a 60/600 on the math section of the PSAT/SAT or 27 on the ACT math

This course is a second year of intensive chemistry designed to prepare the student to take the Advanced Placement Chemistry Examination. The course meets the objective of a general chemistry course at the college level. The College Board determines the course description; therefore, the content of this course must adhere to those requirements. This course is linked to a required one-unit honors course.

**Chemistry 2 Extension Honors (for Advanced Placement Chemistry)** 327301HW  
**(LHS, RBHS, WKHS)**  
**Grades 11, 12** 1 unit

This course is linked to Advanced Placement Chemistry 2 and is open only to students enrolled in that course.

**Physics** **324100CW**  
**Grades 11, 12** **1 unit CHE lab credit**

**Prerequisite:** Biology 1, Algebra 2, Geometry

**Recommended:** Grade of 85 or better in Algebra 2, Pre-Calculus (completed or concurrent)

This is a mathematical science course covering the classical and modern topics in physics. Appropriate laboratory activities that address the course inquiry standards are coordinated with the course content so that students grasp the experimental nature of science. Topics include measurement, mechanics, wave motion, sound, light, optics, color, thermodynamics, electricity and electromagnetism, and relativity.

**Physics Honors** **324100HW**  
**Grades 11, 12** **1 unit CHE lab credit**

**Prerequisite:** Biology 1, Pre-Calculus (completed or concurrent)

**Recommended:** Grade of 85 or better in Algebra 2

This course offers an in-depth study of the physics principles with emphasis placed on mathematical computation. Where appropriate, calculus methods are used to solve problems. Laboratory activities that address the course inquiry standards are coordinated with the course content so students can grasp the experimental nature of science. Topics include measurement, mechanics, torque, rotary motion, wave motion, sound, light, optics, electricity and electromagnetism, and relativity.

**Advanced Placement** **327500AW**  
**Physics C Mechanics**  
**(LHS, RBHS)**  
**Grade 12** **1 unit CHE lab credit**

**Prerequisite:** Physics 1 Honors, AP Calculus (completed or concurrent)

**Requirement:** AP Physics C Mechanics Exam

**Recommended:** A 60/600 on the math portion of the PSAT/SAT or 27 on the ACT math

This course focuses on mechanics with calculus being used in problem solving and in derivations. Laboratory experience is an integral part of the course. This course is appropriate for students who are planning to major in science or engineering at the college level. The College Board determines the course description; therefore, the content of this course must adhere to those requirements.

**Advanced Placement** **327600AW**  
**Physics C Electricity & Magnetism**  
**(LHS, RBHS)**  
**Grade 12** **1 unit CHE lab credit**

**Prerequisite:** AP Physics 2 C Mechanics, AP Calculus (completed or concurrent)

**Requirement:** AP Physics C Electricity & Magnetism Exam

**Recommended:** A 60/600 on the math portion of the PSAT/SAT or 27 on the ACT math

This course focuses on classical electricity and magnetism with calculus being used in problem solving and in derivations. Laboratory experience is an integral part of the course. This course is appropriate for students who are planning to major in science or engineering at the college level. The College Board determines the course description; therefore, the content of this course must adhere to those requirements.

**Earth Science** **326501CW**  
**(PHS)**

**Grades 10–12** **1 unit**

This course is designed to meet the SC Earth Science Academic Standards related to geology, paleontology, biogeochemical cycles, weather and climate, and astronomy. The overall approach shows how these systems function and interrelate with each other. Students examine the nature of Earth's composition, processes and place in the universe in order to tie in their relevance to local and global issues. Scientific method and inquiry are used as the student studies issues related to Earth as home.

**Astronomy and Space** **325100CW**  
**Science**  
**(GHS, LHS, RBHS, WKHS)**

**Grades 11, 12** **1 unit CHE lab credit**

**Prerequisite:** Biology 1, Algebra 2

This course includes historical analysis of modern astronomy and cosmology. Astronomy topics include gravity and motion, optical astronomy, non-visible astronomy, the solar system, properties of stars, stellar evolution, galaxies and cosmology. Space science topics include history of space flight, discoveries of modern space exploration, societal impact issues and planetary exploration. Modern astronomy, physics and space exploration are connected with units on basic optics, telescopes and spectroscopy. Students may attend evening and early morning stargazing programs.

**Forensic Science** **329913CW**  
**(GHS)**

**Grades 11, 12** **1 unit elective credit**

**Prerequisites:** Biology 1

**Recommended:** Chemistry 1 (concurrent or completed)

Forensic science is the application of scientific methods to those criminal and civil laws that are enforced by police agencies in a criminal justice system. This course covers the crime scene, various types of physical evidence and analysis, and specific branches of forensic science, such as anthropology and pathology. The class format includes lecture, reading materials, guest speakers, video presentations, and laboratory or field exercises. Participation in a Mock Crime Scene is required. This course is elective credit and does not count as a science unit.

## **SOCIAL STUDIES**

To receive a South Carolina High School Diploma students must earn three units in Social Studies. U.S. History (1 unit), American Government (1/2 unit), and Economics (1/2 unit) are required courses. The third unit must be a course designated as a social studies elective. It is strongly recommended that students who plan to take AP U.S. History or AP European History enroll in social studies courses in Grades 9 and 10.

All social studies courses are aligned with the South Carolina Social Studies Academic Standards. The academic standards are grade-specific and call for the integration of content standards (what students are expected to know in each area) and process standards (what skills students are expected to develop).

## U.S. History and the Constitution

Grade 11

332000CW

1 unit

**Requirement:** The S.C. End-of-Course Examination program requires students taking this course to take the U.S. History End-of-Course Test.

This course is a survey of major historical developments in the United States from colonial settlement to the present. It builds on fourth- and fifth-grade U.S. History and eighth-grade South Carolina history. This course is designed to help students evaluate the political, economic, social and cultural influences in state and national development from the 13th century to the present. Emphasis is placed on the use of analytical and interpretive skills as students examine historical data and cause-effect relationships.

## Advanced Placement U.S. History

Grade 10, 11

337200AW

1 unit

**Requirements:** AP U.S. History Exam, U.S. History Extension Honors linked course, the S.C. End-of-Course Examination program requires students taking this course to take the U.S. History End-of-Course Test, summer reading/assignment

**Recommended:** A score of 58/580 on the verbal section of the PSAT/SAT or completed English 2 Honors with a grade of 80 or higher

This course provides students with a learning experience equivalent to that obtained in college introductory United States history courses. Students examine major historical developments from the age of discovery to the present. This course is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with problems and materials in United States history. Emphasis is placed on analyzing historical data, synthesizing evidence and evaluating the ideas of others as students develop the ability to express themselves with clarity and precision when writing essays. The College Board determines the course description; therefore, the content of this course must adhere to those requirements. This course is linked to a required one-unit honors course.

## U.S. History Extension Honors (for Advanced Placement U.S. History)

Grade 10, 11

337201HW

1 unit

This course is a required link to Advanced Placement U.S. History and is only open to those students enrolled in that course.

## American Government

Grades 11, 12

333001CH

½ unit

This course covers institutions, people, processes, policies and powers at the national, state and local levels of government, and is linked with Economics Seminar. It provides a framework for understanding the origins and functions of government, the foundations of American democracy, and the basic principles of the American political system. This course is designed to encourage responsible and effective civic participation. It emphasizes the use of analytical and interpretive skills so that students are able to evaluate and defend political positions with sound reasoning and evidence.

## Advanced Placement American Government (GHS, LHS, RBHS, WKHS)

Grades 11, 12

337300AW

1 unit

**Requirement:** AP American Government Exam, summer reading/assignment

**Recommended:** A score of 58/580 on the verbal section of the PSAT/SAT or completed a previous Honors English course with a grade of 80 or higher

This course provides students with a comprehensive critical perspective on American government and politics. Students develop analytic perspectives for interpreting, understanding and explaining political events in this country. The course provides students with a learning experience equivalent to that obtained in most college introductory U.S. government and politics courses. The College Board determines the course description; therefore, the content of this course must adhere to those requirements. This course is linked to a required half-unit honors course.

## Economics

Grades 11, 12

335000CH

½ unit

This course is a study of the American free enterprise economic system and is linked with American Government Seminar. It covers microeconomic and macroeconomic theory. This course helps students effectively use economic reasoning as workers, consumers and citizens. Emphasis is placed on the use of analytical and interpretive skills to make informed decisions based on evaluation of economic data, understanding of economic issues and knowledge concerning public policy.

## Advanced Placement

### Microeconomics

(LHS, RBHS, WKHS)

Grades 11, 12

337500AW

1 unit

**Prerequisites:** Algebra 2

**Requirement:** AP Microeconomics Exam, summer reading/assignment

This course is designed to provide a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the larger economic system. It places primary emphasis on the nature and functions of product markets and includes the study of factor markets and the role of government in promoting greater efficiency and equity in the economy. The College Board determines the course description; therefore, the content of this course must adhere to those requirements.

## Advanced Placement

### Macroeconomics

(GHS, LHS, RBHS, WKHS)

Grades 11, 12

337400AW

1 unit

**Prerequisite:** Algebra 2

**Requirement:** AP Macroeconomics Exam, summer reading/assignment

This course is designed to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. This course places emphasis on the study of national income and price determination and also develops familiarity with economic performance measures, economic growth and international economics. The College Board determines the course description; therefore, the content of this course must adhere to those requirements.

## Advanced Placement

### European History

(LHS, RBHS, WKHS)

Grades 10–12

337600AW

1 unit

**Requirement:** AP European History Exam, European History Extension Honors linked course, summer reading/assignment

**Recommended:** A score of 58/580 on the verbal section of the PSAT/SAT or completed a previous Honors English course with a grade of 80 or higher

This course provides students with a learning experience equivalent to that obtained in college introductory European history courses. This course focuses on the fundamental role of cultural, economic, political and social developments in

European history from 1450 to the present. Emphasis is placed on analysis of historical evidence and written expression of historical understanding. The College Board determines the course description; therefore, the content of this course must adhere to those requirements. This course is linked to a required half-unit-honors course and is designated as a social studies elective credit.

**European History Extension Honors** **337601HH**  
(for Advanced Placement European History)  
(WKHS)

**Grades 10–12** **½ unit**

This course is a required link to Advanced Placement European History and is only open to those students enrolled in that course.

**World Geography** **331000CW**  
(GHS, LHS, PHS, RBHS)  
**Grades 9–12** **1 unit**

This course is a study of world regions with emphasis on the interrelationships between people and their environment. The course examines the political, economic and social processes that shape cultural patterns of regions. Emphasis is placed on the use of analytical and interpretive skills as students make inferences and draw conclusions from a variety of geographic information. This course is designated as a social studies elective credit.

**Advanced Placement Human Geography** **337900AW**  
(GHS, LHS, RBHS)  
**Grades 9–12** **1 unit**

**Requirement:** AP Human Geography Exam, summer reading/assignment

This course introduces students to the systematic study of patterns and processes that have shaped human understanding, use and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. The College Board determines the course description; therefore, the content of this course must adhere to those requirements.

**World History** **336000CW**  
**Grades 9–12** **1 unit**

This course is the study of the major historical developments in the world from prehistoric times to the present. It is designed to help students examine different world cultures, evaluating their contributions to civilization and their impact on the world today. Emphasis is placed on the use of analytical and interpretive skills as students examine historical data and cause-effect relationships. This course is designated as a social studies elective credit.

**World History Honors** **336000HW**  
(GHS, PHS, WKHS)  
**Grades 9–12** **1 unit**

This course is a comprehensive study of the major historical developments in the world from prehistoric times to the present. It is designed to help students evaluate historical data from a variety of sources as they trace the development and interaction of world political, cultural, social and economic institutions. Students examine primary and secondary sources as they analyze, synthesize and evaluate information in order to construct sound historical interpretation with evidence. Students engage in Socratic Seminars where they seek deeper understanding of complex ideas in text through rigorously

thoughtful dialogue. Emphasis is placed on the development of research skills and writing skills. This course is recommended for students who plan to take AP History in Grades 11 and 12. This course is designated as a social studies elective credit.

**Advanced Placement World History (GHS, LHS, RBHS)** **337701AW**  
**Grades 9–12** **1 unit**

**Requirements:** AP World History Exam, summer reading/assignment

This course challenges students to think globally and make connections between cultures and across time. Students develop greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. Emphasis is on the accumulation of factual knowledge and the development of analytical skills to prepare students to interpret primary sources and write persuasive essays. The College Board determines the course description; therefore, the content of the course must adhere to those requirements.

**Current Issues (LHS, PHS)** **339904CW**  
**Grades 10–12** **1 unit**

This course enables students to become more knowledgeable about matters discussed and debated by U.S. policy makers. Emphasis is placed on the use of analytical and interpretive skills as students explore domestic and foreign policy issues and research background information (arguments both pro and con). A major goal of the course is to produce civic participation based on informed perspectives. This course is not designated as a social studies elective credit.

**Holocaust and Genocide Studies (LHS, WKHS)** **339920CW**  
**Grades 10–12** **1 unit**

This course explores genocide in the 20<sup>th</sup> century. The study of the Holocaust focuses on the state-sponsored, systematic persecution and annihilation of the European Jewry by Nazi Germany and its collaborators. Students study the persecution and murder of Roma/Sinti, the handicapped, Poles, and political dissidents. The in-depth study of the Holocaust is the foundation for studying other genocide events of the 20<sup>th</sup> century to include the former Soviet Union, Bangladesh, Indonesia, East Timor, Cambodia, former Yugoslavia and Rwanda. There is a culminating project created by the students that explores intolerance issues in the United States, creation of international justice after genocide events, or current genocidal events in other areas of the world. Emphasis is placed on the use of analytical and interpretive skills so that students are able to evaluate and defend positions on issues of intolerance with sound reasoning and evidence. This course is not designated as a social studies elective credit.

**Law Education (LHS, PHS, RBHS)** **333600CW**  
**Grades 9–12** **1 unit**

This course introduces and provides an overview of law and the legal system. It provides students with practical information, problem-solving skills and a basic understanding of law-related terms. This course is designated as a social studies elective credit.

**Psychology** 334001CH  
**Grades 11, 12** ½ unit

This course focuses on the factors that influence the behavior of individuals. By learning these principles and their applications, students develop a better understanding of themselves and others. This course is designated as a social studies .5 elective credit.

**Advanced Placement Psychology** 437100AW  
(GHS, LHS, RBHS, WKHS)  
**Grades 11, 12** 1 unit

**Requirements:** AP Psychology Exam, summer reading/assignment

**Recommended:** A score of 58/580 on the verbal section of the PSAT/SAT or completed a previous Honors English course with a grade of 80 or higher.

This course introduces the systematic and scientific study of the behavior and mental processes of human behavior and mental processes of human beings and other animals. It includes a consideration of the psychological facts, principles and phenomena associated with each of the major subfields within psychology. Students also learn about the ethics and methods psychologists use in their science and practice. The College Board determines the course description; therefore, the content of this course must adhere to those requirements.

**Sociology** 334501CH  
**Grades 11, 12** ½ unit

This course provides an analysis of human relationships in modern culture through an examination of institutions, traditions, customs and trends. This course is designated as a social studies .5 elective credit.

**iCIVICS** 333503CW  
(GHS, WKHS)  
**Grades 9–10** 1 unit

This course provides an overview of the U.S. Constitution and introduces the functions of the three branches of government (legislative, executive, and judicial). The curriculum is delivered as a hybrid course using face-to-face instruction and the online iCIVICS games, interactive activities, and case studies. This approach develops problem-solving skills, collaboration, and 21st century learning skills while integrating civics literacy into the course content. This course is designated as social studies elective credit.

## **WORLD LANGUAGES**

Students planning to enter a four-year, state-supported college in South Carolina are required to complete at least two years of the same world language. Some colleges now require three units of the same language. Level one courses are open to all interested students. It is recommended that students have a strong foundation in English/language arts and appropriate study habits in order to be successful in a world language. Beginning at level three, students may enroll in honors-level courses. Levels four and five are either honors or Advanced Placement. Students are urged to pay special attention to course descriptions that recommend a minimum grade in a prerequisite course. Students not achieving at or above this minimum level have historically had difficulty achieving a satisfactory level in subsequent courses.

**Chinese 1** 461100CW  
(RBHS, WKHS)

**Grades 9–12** 1 unit

This course introduces the structure and phonetic system of the Chinese language. It covers the development of communication skills in written and spoken language and the culture and civilization of China.

**Chinese 2** 461200CW  
(WKHS)

**Grades 9–12** 1 unit

This course expands on the skills introduced in Chinese 1 and emphasizes proficiency and cultural comparisons.

**French 1** 361100CW  
**Grades 9–12** 1 unit

This course introduces the structure and phonetic system of the French language. It covers the development of communication skills in written and spoken language and the cultures and civilizations of France and other French-speaking countries.

**French 2** 361200CW  
**Grades 9–12** 1 unit

This course expands on the skills introduced in French 1 and emphasizes proficiency and cultural comparisons.

**French 3** 361300CW  
**Grades 10–12** 1 unit

This course is a review and expansion of structure, vocabulary and usage of the French language with emphasis on authentic communication. Culture, civilization and comparisons are important aspects of the course.

**French 3 Honors** 361300HW  
**Grades 10–12** 1 unit

**Recommended:** Grade of 85 or better in French 2

This course is a review and expansion of structure, vocabulary, usage and culture. Students are expected to use French extensively for communication in the class, with creative projects and activities to supplement routine class materials.

**French 4 Honors** 361400HW  
(LHS, RBHS, WKHS)  
**Grades 10–12** 1 unit

**Recommended:** Grade of 85 or better in French 3

This course is an advanced study of the French language and culture emphasizing comprehension and communication of current topics as well as literature and civilization. Students improve fluency and accuracy while engaging in creative and cooperative projects in the classroom and in the language community.

**French 5 Honors** 361500HW  
(LHS, RBHS, WKHS)  
**Grades 11, 12** 1 unit

**Recommended:** Grade of 85 or better in French 4

This advanced course extends and expands skills already developed, emphasizing extended conversation, reading and composition. Students also begin a more serious study of French history and literature.

**German 1** 362100CW  
**Grades 9–12** 1 unit

This course introduces the phonetic system and structure of the German language. Emphasis is on development of

communication skills. The cultures of German-speaking countries are studied.

**German 2** 362200CW  
**Grades 9–12** 1 unit

This course expands vocabulary and structure with continued emphasis on communication skills.

**German 3** 362300CW  
**(GHS, LHS, RBHS, WKHS)**  
**Grades 10–12** 1 unit

This course is a review and expansion of structure, vocabulary and usage of the German language with emphasis on authentic communication. Culture and civilization are also important facets of the course.

**German 3 Honors** 362300HW  
**Grades 10–12** 1 unit

**Recommended:** Grade of 85 or better in German 2

This course is an expansion of vocabulary and review of grammar and usage. Emphasis is on reading both current and classical authentic texts, comprehending the spoken language, conversing in German and writing with increased proficiency.

**German 4 Honors** 362400HW  
**(GHS, LHS, RBHS, WKHS)**  
**Grades 11, 12** 1 unit

**Recommended:** Grade of 85 or better in German 3

This course is an advanced study of German with an emphasis on comprehension and communication about current topics, literature and culture. Students work to achieve better oral and written proficiency.

**German 5 Honors** 362500HW  
**(LHS, RBHS, WKHS)**  
**Grades 11, 12** 1 unit

**Recommended:** Grade of 85 or better in German 4 Honors

This advanced communication and culture course extends and expands skills developed in German 4 and emphasizes extended conversation, reading and composition.

**Latin 1** 363100CW  
**Grades 9–12** 1 unit

This course focuses on the basic structures of the Latin language and acquiring a basic vocabulary by reading the language. Students study mythology and everyday life of ancient Romans and the many contributions by the Romans to modern language and civilization.

**Latin 2** 363200CW  
**Grades 9–12** 1 unit

This course is a continuation of Latin 1 with an added emphasis on early Roman history. Students improve their ability to read Latin.

**Latin 3 Honors** 363300HW  
**(LHS, RBHS, WKHS)**  
**Grades 10–12** 1 unit

**Recommended:** Grade of 85 or better in Latin 2

This course mainly emphasizes reading in Latin from various authors. Students develop reading skills taught in the previous two courses and complete their study of advanced grammatical structures. Students also research various phases of Roman civilization and history.

**Latin 4 Honors** 363400HW  
**(WKHS)**

**Grades 10–12** 1 unit

**Recommended:** Grade of 85 or better in Latin 3 Honors

This course is an advanced course in Latin with an emphasis on reading authentic Latin text. Students read selections from Julius Caesar's De Bello Gallico, the tale of Jason and the Argonauts, and a variety of other golden and silver Latin literature. Students also continue their study of mythology, Roman history, and culture.

**Advanced Placement** 367400AW  
**Latin 4 (LHS, RBHS)**

**Grades 10–12** 1 unit

**Requirement:** AP Latin Exam, Latin 4 Extension Honors linked course, summer reading/assignment

**Recommended:** Grade of 85 or better in Latin 3

This course prepares students to read, understand, analyze, scan and interpret lines of Vergil. College Board determines the syllabus for the course; therefore, the content of the course may not be adjusted. Students take the AP examination in the Latin language. This course is linked to a required half-unit honors course.

**Latin 4 Extension Honors** 367401HH  
**(for Advanced Placement Latin 4)**

**(LHS)**  
**Grades 10–12** ½ unit

This course is a required link to AP Latin 4 and is only open to students enrolled in that course.

**Spanish 1** 365100CW  
**Grades 9–12** 1 unit

This course introduces the structure and phonetic system of the Spanish language with emphasis on oral proficiency and writing skills. The cultures of Spain and Latin America are studied.

**Spanish 2** 365200CW  
**Grades 9–12** 1 unit

This course expands and continues the skills introduced in Spanish 1 with continued emphasis on oral and written proficiency.

**Spanish 3** 365300CW  
**Grades 10–12** 1 unit

This course reviews and expands on the structure, vocabulary and usage of the Spanish language, emphasizing authentic communication in the language. Students also study Spanish literature, culture and civilization.

**Spanish 3 Honors** 365300HW  
**Grades 10–12** 1 unit

**Recommended:** Grade of 85 or better in Spanish 2

This course is a continued expansion of communication skills and cultural comparisons. Students are expected to use Spanish extensively in the classroom and engage in creative, meaningful projects and activities.

**Spanish 4 Honors** 365400HW  
**Grades 11, 12** 1 unit

**Recommended:** Grade of 85 or better in Spanish 3

This advanced Spanish language course emphasizes speaking and oral comprehension of current topics. Students also study the structure of the Spanish language, development of writing skills and expanded reading comprehension.

**Spanish 5 Honors** 365500HW  
(GHS, LHS, RBHS, WKHS)  
**Grades 11, 12** 1 unit

**Recommended:** Grade of 85 or better in Spanish 4

This advanced communication and culture course extends and expands the skills developed in Spanish 4, emphasizing extended conversation, reading and composition. Students complete a major project.

## **FINE ARTS**

**Visual Arts Foundations** 350100CW  
**Grades 9–12** 1 unit

This entry-level, survey-style course provides students with: foundational knowledge of various art forms; basic art concepts, terminology and techniques; tools and materials; cultural literacy; art history; and art career information. Hands-on learning activities are undertaken in drawing, printmaking, painting, ceramics and sculpture. Class critiques, written tests and written reports are required.

**2-D Design** 350200CW  
**Grades 10–12** 1 unit

**Prerequisite:** Visual Arts Foundations or portfolio

This advanced studio art course addresses a variety of drawing, printmaking and painting techniques in a variety of art styles and media. It also introduces advanced color theory and some cultural literacy, art history and career information. Students develop a portfolio and complete weekly sketchbook assignments. They also must participate in class critiques, take written tests, give reports and participate in select competitive exhibits.

**2-D Design Honors** 350304HW  
(GHS, LHS)  
**Grades 11, 12** 1 unit

**Prerequisite:** 2-D Design and portfolio

In this advanced studio art course, students produce creative, sophisticated and well-crafted artwork in up to two of the following 2-D art forms: drawing, printmaking, painting, photography and/or graphic design (computer-generated imagery). Art projects are based on a thematic approach. Written student-teacher contracts with individualized guidelines and requirements are done for each project. Course requirements include a weekly sketchbook/journal, sketches for all contracted work, individual critiques, written reports, a portfolio, participation in competitive exhibits and an end-of course show.

**3-D Design** 350201CW  
**Grades 10–12** 1 unit

**Prerequisite:** Visual Arts Foundation or portfolio

This advanced studio art course builds upon students' basic knowledge of ceramics and sculpture, and includes some cultural literacy, art history and career information. It begins with pottery production (advanced hand building and throwing on the potter's wheel), with the second half of the term covering advanced 3-D design. In ceramics, students acquire knowledge and skill in glazing, kiln operation, ceramic design and throwing on the wheel. In sculpture, students execute artwork in all sculpture techniques, a variety of art styles and in a variety of media. Students must also participate in class critiques, take written tests, give reports and participate in select competitive exhibits.

**3-D Design Honors** 350303HW  
(GHS, LHS)  
**Grades 11, 12** 1 unit

**Prerequisite:** 3-D Design and portfolio

In this studio art course, students produce creative, sophisticated and well-crafted artwork in the following 3-D art forms: ceramics (hand-built and/or wheel-thrown pottery) and/or sculpture. Art projects are based on a thematic approach. Written student-teacher contracts with individualized guidelines and requirements are done for each project. Course requirements include a weekly sketchbook/journal, sketches for all contracted work, individual critiques, written reports, a portfolio, participation in both competitive exhibits and an end-of course show.

**Photography 1** 350202CW  
**Grades 10–12** 1 unit

**Prerequisite:** Visual Arts Foundations or portfolio

This studio art course focuses on basic black-and-white still photography techniques. The proper use of instant, automatic and manual 35mm as well as digital cameras is addressed. Topics include a survey of photographic history, composition and technical skills, darkroom and computer lab production, research, cultural literacy, presentation of artwork and career opportunities.

**Photography 2** 350301CW  
**Grades 10–12** 1 unit

**Prerequisite:** Photography 1

This studio art course focuses on advanced 35mm and digital photography along with a more thorough exploration of photography history and various types of photography production. There is a continued focus on sketchbook journals, research, cultural literacy and the presentation of artwork. The course also covers the history of film and its relation to photography.

**Studio Arts Honors** 350400HW  
(GHS, LHS, RBHS, WKHS)  
**Grades 10–12** 1 unit

**Prerequisite:** 2-D Design, 3-D Design and completion of a portfolio review process; the prerequisite for students using this course as an AP Extension course is 2D and/or 3D design

This studio art course is designed for advanced visual arts students, some of whom are also enrolled in Advanced Placement Studio Art. Students are challenged to produce creative, sophisticated and well-crafted artwork of the quality required in the Breadth Section of an AP portfolio. Art projects are based on a thematic approach. Individualized student/teacher contracts are done for each assignment. Course requirements include a weekly sketchbook/journal, sketches for all contracted work, individual and class critiques, written reports, a portfolio and participation in competitive exhibits. This course serves as the Extension course for students enrolled in Advanced Placement Studio Art.

**AP Studio Art (Drawing)** 357200AW  
**AP Studio Art (2D Design)** 357400AW  
**AP Studio Art (3D Design)** 357500AW  
(GHS, LHS, RBHS, WKHS)  
**Grades 11, 12** 1 unit

**Requirement:** AP Studio Art Exam, Studio Arts Honors linked course, summer reading/assignment

This course requires students to produce a portfolio—either drawing, 2-D Design or 3-D Design—for evaluation. The portfolio is to be prepared and submitted in accordance with specifications required by the College Board. Each portfolio contains three sections: Quality (for which four to six actual

works of art are submitted); Concentration (an in-depth, individual project of up to 20 slides); and Breadth (14 to 20 slides that demonstrate a wide range of experience). The course meets the objective of a general art course at the college level. The College Board determines the syllabus for the course; therefore, the content of the course may not be adjusted. This course is linked to Studio Arts Honors.

**Band 1** **353100CW**  
**Grades 9–12** **1 unit**

**Prerequisite:** Audition

This course is a performance-oriented program, which includes marching band, concert band and various ensembles. Students must participate in band practice after school.

**Band 2** **353200CW**  
**Grades 9–12** **1 unit**

**Prerequisite:** Audition

This course is a performance-oriented program, which includes marching band, concert band and various ensembles. Students perform more complex musical selections, perform in competitive events and must participate in band practice after school.

**Band 3 Honors** **353300HW**  
**(GHS, LHS, RBHS, WKHS)**  
**Grades 9–12** **1 unit**

**Prerequisite:** Audition

This course is a performance-oriented program, which includes marching band, concert band and various ensembles. Students perform more complex musical selections and perform in competitive events. Band practice after school is required.

**Percussion Techniques** **459904CW**  
**(GHS, LHS, RBHS, WKHS)**  
**Grades 9–12** **1 unit**

**Prerequisite:** Audition

This course is for percussion students who have successfully passed eighth grade band classes and the spring high school band audition. The course drills basic fundamentals of major percussion instruments. It allows for work on percussion ensembles as well as music for the symphonic and concert bands.

**Percussion Techniques Honors** **459904HW**  
**(GHS, LHS, RBHS, WKHS)**  
**Grades 9–12** **1 unit**

**Prerequisite:** Audition; earned position in Band 3 Honors

This course is for percussion students who have successfully passed eighth grade band classes and the spring high school band audition. The course provides accelerated instruction in major percussion instruments. It allows for work on percussion ensembles as well as music for the symphonic and concert bands.

**Jazz Band Honors** **453100HW**  
**Grades 9–12** **1 unit**

**Prerequisite:** Audition

This course is a set instrumentation of alto saxes, tenor saxes, a baritone sax, trumpets, trombones, piano, guitar, bass, drums, and one or two vocalists (piano, bass and guitar players must be able to read music and chord symbols). Students study jazz styles and improvisation, rehearse music for performance and may have to participate in practice after school.

**Orchestra** **355200CW**  
**Grades 9–12** **1 unit**

**Prerequisite:** Audition

This course is a performance-oriented program concentrating on complex string repertoire. Students participate in Concert Festival, Solo and Ensemble Festival, and may perform in competitive events. Extra rehearsal time may be scheduled after school.

**Orchestra Honors** **355300HW**  
**Grades 9–12** **1 unit**

**Prerequisite:** Audition

This course is a performance-oriented group concentrating on more difficult string repertoire. Rehearsal after school may be required.

**Guitar 1** **356700CW**  
**(GHS, PHS, RBHS, WKHS)**  
**Grades 9–12** **1 unit**

This course is designed for the beginner with no prior music or guitar experience. Each student must provide his/her own acoustical guitar and have access to a CD/cassette player to practice daily lessons.

**Guitar 2** **359901CW**  
**(GHS, PHS, RBHS, WKHS)**  
**Grades 9–12** **1 unit**

**Prerequisite:** Audition

This course is for students who desire serious study of the guitar. Students develop the ability to read standard pitch and rhythmic notation, refine finger technique appropriate to the classical guitar, correlate staff notation with techniques used in playing polyphonic music, develop sight-reading skills, and expand performance ability. Students perform solo, duo and ensemble music drawn from a variety of musical genres.

**Piano 1** **454100CW**  
**Grades 9–12** **1 unit**

This course is for any student who wants to learn or improve piano keyboard skills. Students do not need any prior experience. Because instruction is individualized, students may range from beginners to advanced levels of skill. It is not required that students have access to a keyboard outside of class. Students who have previously taken this class may repeat it to gain increased skill.

**Piano 2** **454102CW**  
**Grades 9–12** **1 unit**

**Prerequisite:** Audition

This course is for students who desire serious study of the piano and wish to improve musical and technical skills. Because instruction is individualized, students may range from intermediate to advanced levels of skill. Students must have access to a keyboard outside of class. Students who have previously taken this class may repeat it to gain increased skill.

**Chorus** **354102CW**  
**Grades 9–12** **1 unit**

This course emphasizes advanced techniques of singing through ear training, sight-singing and theory. Dependability and commitment to the group are expected since this is a performing group. Students must participate in seasonal concerts and various performances and possibly after-school rehearsals.

**Women's Ensemble** **354202CW**  
**Grades 9–12 (LHS, RBHS)**  
**Grade 9 (WKHS)** **1 unit**

This course emphasizes vocal techniques that are developed through the study of correct breathing, diction and intonation. Choral selections written for Soprano 1, Soprano 2 and Alto are utilized. Students perform daily vocal exercises to increase range, tone quality and breathing capacity. Students perform various types of music in seasonal concerts and other performance opportunities. After-school rehearsals may be required.

**Concert Choir Honors** **354300HW**  
**Grades 9–12** **1 unit**

**Prerequisite:** Audition

This course is designed for the performance of advanced musical selections utilizing the study of music theory, music history, ear training and keyboard skills. Students experience a higher level of training in breathing techniques, posture, diction, intonation, balance and overall musical aspects of the voice. Seasonal concerts, state choral festival, community performances, school assemblies and other performances are required functions. Selected students may participate in solo and ensemble festivals, All State, Governor's All-Star Chorus and regional Honors Choir. After-school rehearsals may be required.

**Show Choir Honors** **459901HW**  
**(GHS, LHS, RBHS, WKHS)**  
**Grades 10–12** **1 unit**

**Prerequisite:** Audition

This performance-oriented course is designed for the most advanced choral students. Four required concerts plus several additional performing opportunities are given. Students must attend after-school practices. They may also be required to enroll in Chorus, Concert Choir, Men's Ensemble or Women's Ensemble.

**Chamber Choir Honors** **459903HW**  
**(GHS, LHS, RBHS, WKHS)**  
**Grades 10–12** **1 unit**

**Prerequisite:** Audition

This performance-oriented course is designed for the most advanced choral students. Four concerts and participation in the State Choral Festival are required. After-school rehearsals are required. Students may also be required to be enrolled in Chorus, Concert Choir, Men's Ensemble or Women's Ensemble to participate.

**Chorale Honors** **459918HW**  
**(GHS, LHS, RBHS)**  
**Grades 9–12** **1 unit**

**Prerequisite:** Audition

This performance-oriented course is designed for the most advanced choral students. Students experience a higher level of training in breathing techniques, posture, diction, intonation, balance and overall musical aspects of the voice. They must participate in four concerts and the State Choral Festival.

**Music Appreciation** **356100CW**  
**Grades 10–12** **1 unit**

This course provides opportunities for students to hear and study music from many different historical periods as well as from various cultures. Trends in American music and the influence of society, media, genre and composers are of special interest. This course is designed to teach a better

comprehension of the elements of music which include melody, rhythm, harmony, tempo, timbre, instrumentation, voicing, etc. No prior music instruction is necessary.

**Music Theory** **459905CW**  
**Grades 10–12** **1 unit**

This course introduces students to basic concepts and skill applications crucial to the understanding of how tonal music is organized. Topics include notation, scales, chords, intervals, rhythm and harmonization as well as ear-training and sight-singing skills. Basic piano techniques are taught as a means to a better understanding of music theory. This course greatly enhances any chorus, band or orchestra student's musicianship.

**Music Theory Honors** **459905HW**  
**Grades 10–12** **1 unit**

**Prerequisite:** Audition

This course introduces the basic compositional concepts of tonal music. Topics include scales and key signatures, rhythm, intervals, chords, transposition, part writing, figured bass, harmonization and analysis of music from the common practice period. Students develop rhythmic and aural skills through sight-singing, ear-training and listening activities. Students must have formal music training through enrollment in chorus, band, strings or private lessons, and be able to read music and match pitch with the voice.

**AP Music Theory** **357600AW**  
**Grades 10–12** **1 unit**

**Prerequisite:** Music Theory Honors or audition

**Requirement:** A broad range of working knowledge in music, either from extended private music instruction or extended enrollment in band, orchestra or chorus, summer reading/assignment

**Recommended:** A score of 58/580 on the math section of PSAT/SAT

This course is an introduction to the concepts and aural skills basic to the understanding and analysis of music structure. It is offered to students with advanced music reading skills who are ready to meet the abstract thinking demands of this college-level course. College Board determines the syllabus for the course; therefore, the content of the course may not be adjusted.

**Musical Theatre** **459910CW**  
**(GHS, LHS, RBHS, WKHS)**  
**Grades 10–12, 9** **1 unit**

**Prerequisite:** Audition

This course focuses on the history of musicals and the stock characters found in them. During the course, students become familiar with the larger, more famous musicals. This performance-oriented class incorporates movement and vocal work; therefore, it is suggested that students who register for the course be able to sing and move well. At the end of the course, students audition for and perform in a musical production to be presented to the school and/or the public.

**Drama** **452100CW**  
**Grades 9–12** **1 unit**

This course explores every area of theater including theater history and styles, acting techniques, voice projection, improvisation, set design and costumes. The course concludes with a class production that allows every student the opportunity to apply the skills and knowledge obtained throughout the course.

**Drama 2** **452200CW**  
**Grades 10–12** **1 unit**

**Prerequisite:** Drama

This course focuses on the techniques, aspects and theories of acting through various activities including mime, pantomime, improvisation, script analysis, monologues and auditions. The course concludes with a class production allowing every student the opportunity to perform on stage.

**Drama 3** **452300CW**  
**(LHS)**  
**Grades 10–12** **1 unit**

**Prerequisite:** Drama

This course focuses on the design and construction of make-up, costumes, lighting, sets, sounds and props. Students work in all aspects of technical theater, learning to be a part of the team that creates the style and appearance of a production. Students have opportunities to apply their skills and knowledge in a production setting.

**Drama 4 Honors** **452400HW**  
**(LHS)**  
**Grades 11, 12** **1 unit**

**Prerequisite:** Previous drama courses, audition

This course is an in-depth study of all aspects of a production from business manager to actor to technician. Students analyze written scripts for emotional, sensory and motivational information in order to perform effectively. Students apply all learned theater skills to student-produced works. As a culminating experience, students select or create an original play and carry it through to production. After-school rehearsals may be required.

**Play Performance Honors** **459916HW**  
**(GHS, LHS, RBHS, WKHS)**  
**Grades 10–12** **1 unit**

**Prerequisite:** Drama and Drama 2; audition

In this production-oriented course students work constantly on plays that they will perform for the public and for the various competitions and festivals in the state. This class meets during the school day during the spring term; however, during the fall term, students are required to meet one night a week.

**Dance 1** **450101CW**  
**(GHS, LHS, RBHS)**  
**Grades 9–12** **1 unit**

This introductory level course is designed to expose beginner level students to the well-rounded art of dancing. It is the foundation course for the dance curriculum and does not require previous dance experience. This class focuses on basic modern, ballet, social dance, jazz and hip-hop dance techniques. Students are introduced to the introductory dance vocabulary and the history of dance.

**Dance 2** **450201CW**  
**(LHS, RBHS)**  
**Grades 9–12** **1 unit**

**Prerequisite:** Audition

**Recommended:** Studio dance experience

This course focuses on intermediate modern, ballet, jazz and hip-hop technique. Students enhance their knowledge of dance vocabulary and history. In addition, students explore choreography and participate in short choreography exercises and/or projects.

**Dance 3 Honors** **450300HW**  
**(Advanced Technique and**  
**Choreography Development)**  
**(LHS, RBHS)**  
**Grades 9–12** **1 unit**

**Prerequisite:** Dance 2 or audition

**Recommended:** Studio dance experience

This advanced level course is designed to deepen the understanding and accuracy of performing various styles of dance technique. The course focuses on the advanced knowledge and understanding of modern, ballet, jazz, and hip-hop technique. Students investigate the choreography process and construct their own choreography throughout the year. Students continue to increase their knowledge of dance vocabulary and history of each style of dance. Students participate in various performances throughout the year. Specific attire is required for this course.

## **PHYSICAL EDUCATION**

**Physical Education 1** **344100CW**  
**Grades 9–12** **1 unit**

This course satisfies the graduation requirement for physical education and emphasizes personal fitness and lifetime activities. Students evaluate their present fitness level through assessment procedures learned in class and use this data to develop a personal fitness program. Through their personal fitness program and class fitness activities, students work toward meeting current health-fitness standards.

**Physical Education 2** **344200CW**  
**(GHS, PHS)**  
**Grades 10–12** **1 unit**

**Prerequisite:** Physical Education 1 or JROTC I

This course may not be used in lieu of Physical Education 1 to satisfy the graduation requirement. This course is an in-depth continuation of Physical Education 1. Instruction focuses on game strategies and higher skill development.

**Physical Education 2** **344201CW**  
**(Project Unify)**  
**(LHS, RBHS, WKHS)**  
**Grades 10–12 (WKHS)**

**Grades 11–12 (LHS, RBHS)** **1 unit**

**Prerequisite:** Physical Education 1 or JROTC I

This course may not be used in lieu of Physical Education 1 to satisfy the graduation requirement. This course is a training course for Special Olympics, focusing on partnering general education students with students participating in Special Olympics in an effort to prepare for competition. An application is required and may be picked up in the School Counseling and Advisement Office.

**Physical Fitness and** **349900CW**  
**Weight Training 1**  
**Grades 10–12** **1 unit**

**Prerequisite:** Physical Education 1 or JROTC I

**Note:** This course may not be used in lieu of Physical Education 1 to satisfy the graduation requirement

This course is designed for motivated students who want to improve their personal fitness. Student athletes should sign up for Physical Education 3 and 4 when available. Physical training (weight training and conditioning) is the focus of the class with emphasis on the proper development of weight-



includes a focus on the appropriate use of calculators during the tests.

**ACT/SAT Prep Verbal** 401101CH  
**Grades 10–12** ½ unit

This course is for students planning to take the SAT or ACT. It covers test content, test-taking procedures and information about typical questions. Students focus on specific areas of reading comprehension, words in context and vocabulary development.

**Cooperative Education**  
**Grades 11, 12** 1–6 units

Cooperative Education is a work-based learning experience related to a career and technology program of study the student has completed. This program coordinates studies with a job in a career related to the student's major. Instruction is completed at the worksite. Students must apply to participate in this program. Applications are available in each high school guidance department and must be approved prior to student enrollment in the course. Students must furnish their own transportation to the worksite and attend an orientation workshop prior to beginning training at the worksite.

**Note: Applications for students who are NOT enrolled in Health Science Clinicals will be given priority for the Lexington Medical Center Cooperative Education opportunities.**

**Leadership for the** 379905CH  
**21st Century**  
**Grade 9** 1/2 unit

**Requirement:** Personal Health and Wellness linked course  
This district-required course for ninth grade students is designed to foster growth and assessment of leadership potential and skills. The course focuses on qualities, laws, practices, and commitments of leaders; presentation skills; and career exploration. This course is viewed as essential in establishing the foundation for success in every high school student and in promoting self-direction, problem-solving, self-actualization, reflection and collaboration. Lessons are interactive, integrated, standards-based, and reflect high expectations.

**Personal Health and Wellness** 340201CW  
**Grade 9** 1/2 unit

**Requirement:** Leadership for the 21st Century linked course  
Personal Health and Wellness is designed to help students develop the knowledge, attitudes, and skills to promote wellness, maintain health, and prevent disease. Instructional topics include injury prevention and safety; growth, development and sexual health and responsibility; alcohol, tobacco and other drugs; mental and emotional, personal and community health; and nutritional health. This district-required course includes instruction that complies with the requirement in the Comprehensive Health Education Act of 1988 for high school students.

**Global Leadership** 379907CW  
**for the 21st Century**  
**Grades 11-12** 1 units

This course provides an in-depth introduction and opportunity for students to explore leadership and its development from a complex, global perspective. It includes a thorough discussion of the impact of culture in organizations and society. Through the study of international leaders who have fostered or continue to foster innovation and change, students gain insight into traditional approaches to leadership, as well as emerging

approaches. Protocols for informed decision-making and problem solving are modeled in classroom discussions and incorporated into projects and assignment. Technology is used extensively to support the course's strong emphasis on research, reflection, presentation and communication. The seven habits of highly effective individuals (Covey) are incorporated into the course.

**Senior Internship**  
**Grade 12** 1–2 units

Senior Internships are structured, work-based experiences which incorporate a strong school-based academic foundation. The major purpose of the internship program is for the intern to receive broad instruction in workplace expectations and employer-identified competencies related to a specific career field. Seniors may earn one elective unit of credit each semester. Students must complete an internship application that must be approved prior to student enrollment in the course. Each student is responsible for arranging his/her internship experience. A student is placed on the job site when all required forms/documentation have been received in the School-to-Career Office. Students must attend a program orientation prior to beginning training at the worksite. A student may be removed from the internship program for failure to adhere to guidelines of the Internship Agreement.

**Note: Applications for students who are NOT enrolled in Health Science Clinicals will be given priority for the Lexington Medical Center Cooperative Education opportunities.**

**Teacher Cadet** 338900EW  
**Grades 12, 11** 1 unit

**Requirement:** Students must meet the following state requirements: an overall grade point average of 3.0 on a 4.0 scale (not Uniform Grading Scale) in a College Prep program of studies, a high class rank, five teacher recommendations and a written essay.

This course is for four-year college bound students and students who plan to begin post-secondary education at a two-year institution and transfer to a four-year college. Emphasis is placed on analytical and interpretive skills. The course content focuses on introducing the profession of education and looks at all facets of education, K-12. Applicants are screened according to the admission criteria.

**Note: Since Teacher Cadet is a dual credit course, students are required to pay a college registration fee which is not refundable if the course is dropped.**

## **CAREER AND TECHNOLOGY SPECIALIZATION**

Grade levels are shown in the order in which priority is given to students. Courses that have the star symbol ★ beside them meet the statewide Carnegie unit requirement for computer science. Student leadership training is an integral part of the instructional program for career and technology education. Appropriate organizations are available to students in career clusters.

## SCHOOL OF ARTS AND HUMANITIES

### ARTS AND HUMANITIES CLUSTER

**Broadcasting Production** 529900CW  
(GHS, LHS, PHS, RBHS, WKHS)  
**Grades 9–12** 1 unit

**Prerequisite:** Interview and portfolio

**Recommended:** Grade of 80 or better in Journalism Introduction and English class

This course is for students who have mastered the skills taught in Journalism Introduction. This course teaches writing broadcast copy, using video cameras and microphones, lighting and editing. The class produces a weekly news show.

**Broadcasting Editing Honors** 529901HW  
(GHS, LHS, PHS, RBHS, WKHS)  
**Grades 10–12** 1 unit

**Prerequisite:** Interview and portfolio

**Recommended:** Grade of 85 or better in Broadcasting Production and English class

This course is designed for serious broadcasting students who are editors of the school news show for the year. Students gain experience in directing all aspects of broadcasting from planning to publishing. This course focuses on broadcast production policy and advanced instruction in broadcasting production skills. Students are held accountable for all aspects of the broadcast. They must also attend work sessions after school.

**Digital Art and Design 1** 612000CD  
(LTC) ★  
**Grades 11, 10, 12** 2 units

This course is designed for students who have an interest in pursuing a career in the graphic design field. The course begins with a basic understanding of design, color theory and typography, then moves on to build electronic design skills in corporate identity, advertising, packaging and other areas. Projects are designed to allow freedom of expression and individual interpretation. These hands-on projects are produced on computers using the latest software. Students also have access to scanners, digital cameras and color laser printers.

**Digital Art and Design 2** 612100CD  
(LTC)  
**Grades 12, 11** 2 units

**Prerequisite:** Digital Art and Design 1

This course is a continuation of Digital Art and Design 1 and includes further study in the graphic field. It also includes portfolio development and presentation, along with a focus on job resumé application and interview. Students may be eligible to participate in cooperative work experiences or apprenticeships, which combine career and technology training with supervised work experience in business and industry. Students who complete this program may be eligible to exempt CGC 110 at Midlands Technical College.

**Digital Imaging 1** ★ 534000CW  
**Grades 9–12** 1 unit

This course is designed for the student interested in continuing their education in the Interactive Media segment of the Information Technology Cluster. Students are instructed in the fundamental features of using digital imaging software in editing and designing both photos and graphics. Students also learn the use of technologies related to digital imaging such as: basic computer operations; file sharing across networks; digital scanning; digital photography; preparing documents

for output to various types of high resolution printers, and color calibration. Successful completion of Digital Imaging 1 helps provide a foundation for continued training as well as complementary training for related coursework.

**Digital Imaging 2** 534100CW  
**Grades 10–12** 1 unit

**Prerequisite:** Digital Imaging 1

This project-based course builds upon the skills learned in Digital Imaging 1. Students will use advance digital technologies to acquire various images for editing purposes. The curriculum covers special effects and techniques, masking, working with paths, and modifying complex selections. The projects are also designed to teach basic graphic design elements, such as color, balance, composition, shapes, textures and creating effective layouts using multiple images combined with text. These projects are similarly based to the Advertising Design program. The course is intended to provide a foundation for continued training and employment in the graphics design industry.

## SCHOOL OF BUSINESS, MANAGEMENT AND INFORMATION SYSTEMS

### BUSINESS, MANAGEMENT AND ADMINISTRATIVE CLUSTER

**Business Law** 504400CW  
**Grades 12, 11, 10** 1 unit

This course provides students with knowledge of the legal environment in which adults live and work, including such areas as contracts, estates, marriage, divorce and consumer protection. Students study true situations that demonstrate how business and personal law impact on the lives of young people and adults. Students focus on the legal principles related to constitutional, criminal, civil and administrative laws, as well as the court system.

**Integrated Business Applications 1** ★ 502000CW  
**Grades 9–12** 1 unit

This course is designed for students who wish to enhance their personal business skills or pursue a career in office management, business, accounting, etc. Using the full-featured word processing package Microsoft Word, students learn to create many types of personal and business documents, including announcements, letters, memos, resumés, and business and academic reports. Students learn the basics of the spreadsheet program, Microsoft Excel, which allows students to organize data, perform calculations, graphically display data in charts and develop professional-looking reports. Students also learn the basics of the database program, Microsoft Access, which allows students to create and manipulate data in a database.

**Integrated Business Applications 2** 502100CW  
**Grades 10, 11, 12** 1 unit

**Prerequisite:** Integrated Business Applications 1

This course is for students who wish to enhance their personal business skills or pursue a career in office management, business, accounting, etc. Using the integrated software package, Microsoft Office, students use Excel to build, format and enhance worksheets and charts, work with templates and multiple worksheets, and sort worksheet databases. Students also use Access to create, maintain and query databases. Students learn to integrate Word, Access and Excel. Students who successfully complete this class are eligible to complete the Microsoft Office User Specialist (MOUS) certification.

**Administrative Support  
Technology  
(LTC)  
Grades 10–12** **512201CW** **1 unit**

**Prerequisite:** Integrated Business Applications 1

This course is designed to provide an overview of the major responsibilities and tasks in the business environment. The objectives of the course are to enhance technical skills; solve business-oriented problems; manage general office tasks; and demonstrate effective supervisory, management, and human relations skills.

**Google Applications ★  
(GHS)  
Grades 11, 12** **500700CW**  
**500700CH** **.5 or 1 unit**

Google Applications is designed to introduce students to many of the applications that Google offers. The course builds on skills beyond the traditional introduction of computer concepts and incorporates emerging technologies using Google Applications. It prepares students for learning and working in the 21st century through communication and collaboration tools. Real world, student-centered activities strengthen students' technology skills in the continually changing online Google community. Google Applications include GMAIL, Google Calendars, Google Sites, Google Sketchup, Google Earth, Google Drive, etc.

**Social Media in Business  
(LTC)  
Grades 10–12** **503400CW**  
**503400CH** **.5 or 1 unit**

This course introduces students to the current field of social media and prepares them to explore and create successful social media strategies for businesses. It gives students the knowledge, tools, and methods to use different social media tools and networks in a business environment.

**Multimedia ★  
Grades 9–12** **503000CW** **1 unit**

**Recommended:** Integrated Business Applications 1

This course is a computer-based course using presentation software and interactive applications that integrate text, color, still graphic images, animation, audio and full-motion video. Students become skilled in the use of a scanner, digital camera and digital camcorder. Students: create electronic portfolios; edit images; download information, sounds, clip art and animation from the Internet. Media literacy is also stressed in this class.

**Digital Imaging 1 ★  
Grades 9–12** **534000CW** **1 unit**

This course is for the student interested in continuing their education in the Interactive Media segment of the Information Technology Cluster. Students are instructed in the fundamental features of using digital imaging software in editing and designing both photos and graphics. Students also learn the use of technologies related to digital imaging such as: basic computer operations; file sharing across networks; digital scanning; digital photography; preparing documents for output to various types of high resolution printers, and color calibration. Successful completion of Digital Imaging I helps provide a foundation for continued training as well as complementary training for related coursework.

**Digital Imaging 2  
Grades 10–12** **534100CW** **1 unit**

**Prerequisite:** Digital Imaging 1

This project-based course builds upon the skills learned in Digital Imaging 1. Students will use advance digital technologies to acquire various images for editing purposes. The curriculum covers special effects and techniques, masking, working with paths, and modifying complex selections. The projects are also designed to teach basic graphic design elements, such as color, balance, composition, shapes, textures and creating effective layouts using multiple images combined with text. These projects are similarly based to the Advertising Design program. The course is intended to provide a foundation for continued training and employment in the graphics design industry.

**Web Page Design  
and Development 1 ★  
Grades 10, 11, 12** **503101CW** **1 unit**

**Prerequisite:** Integrated Business Applications 1 or Multimedia

This course is designed to provide students with the knowledge and skills needed to design, implement and maintain a Web site. Students create Web pages using HTML, Advanced HTML and a popular Web page software. Students develop a plan for posting, publicizing and promoting a Web site. They also research Web-related careers.

**Web Page Design  
and Development 2  
Grades 11, 12** **503300CW** **1 unit**

**Prerequisite:** Web Page Design and Development 1

This course examines the integration of the Macromedia Studio Suite, including Dreamweaver and Flash, to create high-impact Web sites. Students expand their knowledge of Web design languages including HTML, DHTML, XML and CSS as they are used in the Macromedia Studio software. Web development design issues of audience, purpose, optimization and accessibility are addressed. Server side programming is examined to increase the functionality of Web sites.

**INFORMATION TECHNOLOGY CLUSTER**

**Foundations of Animation  
Grades 12, 11, 10** **535000CW** **1 unit**

**Prerequisite:** Multimedia, Web Page Design and Development 1 or Digital Imaging 1

Students in this course learn Adobe Flash through step-by-step instructions and in-depth explanations. The course progresses from getting started with Flash to drawing objects and working with symbols and interactivity. The student then focus on creating animations, creating special effects (such as masks, character animation, and 3D), adding video, preparing and publishing Flash applications (for the Web and mobile devices), and importing and modifying graphics. The next part of the course focuses on building complex animations, using ActionScript 3.0, incorporating sound with video, and using ActionScript to enhance the user experience. Finally, students learn how to work with components.

**3-D Animation (LTC)** **539902CW**  
**Grades 12, 11, 10** **1 unit**

**Prerequisite:** Foundations of Animation

This course teaches students how to model, animate and render with a focus on establishing a working knowledge of animation tools and techniques. The course builds a foundation for developing 3-D computer graphics, animation, modeling, deformations and character animation.

**Information Technology Foundations (LTC, PHS) ★** **527000CW**  
**Grades 9–11** **1 unit**

This course is designed to introduce students to basic concepts in computer and information technology. The areas of instruction covered include computer hardware, software, internet, and network systems. Students, upon successful completion of this course, should be able to enter any one of the Information Technology Cluster majors. This course also prepares students to take the IC<sup>3</sup> Certification test.

**Video Game Programming (LTC)** **539905CW**  
**Grades 11, 12** **1 unit**

**Prerequisite:** Foundations of Animation

This course is designed to give students experience and exposure to the evolving art of Flash game programming. Students build several games using symbols and Flash ActionScript while focusing on mass, velocity, and acceleration. There is a heavy emphasis on performance and optimization issues.

**Computer Programming 1 (LTC)** **505005CW**  
**Grades 11, 10, 12** **1 unit**

**Prerequisite:** Algebra 1 and Digital Imaging or Integrated Business Application (IBA)

This is an introductory programming course in which students use Visual Basic.NET, an object-oriented programming language for developing business applications. Visual Basic.NET contains features allowing the modeling of things found in the real world which make problem solving much easier. Visual Basic.NET is easy for non-programmers to use yet sophisticated enough to be used by professional programmers. Students use problem-solving skills in algorithm development. The course focuses on processes used in business information systems and on the development and representation of programming logic.

**Computer Programming 2 (LTC)** **505103CW**  
**Grades 12, 11, 10** **1 unit**

**Prerequisite:** Computer Programming 1

This course focuses on fundamental algorithms and processes used in business information systems and the development and representation of programming logic to implement a high-level programming language. It is essential now for a computer programmer to access databases. Visual Basic has sophisticated tools to accomplish such interactivity, including SQL and Active X. Students use Random access files, drag and drop, and DHTML to create Web pages within Visual Basic.

## **HOSPITALITY AND TOURISM CLUSTER**

**Culinary Arts 1 (LTC, PHS)** **572000CD**  
**Grades 11** **2 units**

This course is designed to study the food service industry. It covers all aspects of the industry, potential careers, equipment use, food preparation, food storage, ordering and work simplification. Students receive practical and theoretical experiences to obtain competence in each area.

**Culinary Arts 2 (LTC, PHS)** **572100CD**  
**Grades 12, 11** **2 units**

**Prerequisite:** Culinary Arts 1

This course is the continuation of Culinary Arts 1. The course covers food preparation and the food service industry. Students have the opportunity to develop and apply skills in food service. Students in this course are required to purchase a uniform.

**Foods and Nutrition 1 (LHS)** **582400CW**  
**Grades 9–12** **1 unit**

This course concentrates on the principles and relationships of nutrition and well-being. Safety and sanitation, food preparation and management, meal planning, the food dollar and responsible consumer behavior are stressed during guided instruction, independent study and laboratory experiences.

**Foods and Nutrition 2 (LHS)** **582501CW**  
**Grades 9–12** **1 unit**

**Prerequisite:** Foods and Nutrition

This course is a continuation of Foods and Nutrition 1. It provides students with more in-depth knowledge of individual and family health, fitness, and wellness. Responsible consumer behavior, ethnic and multicultural foods, healthy meal planning, selection and preparation, and safety and sanitation are stressed during guided instruction, independent study and laboratory experiences.

**Hospitality, Management and Operations (LTC)** **547600CW**  
**Grades 10–12** **1 unit**

This course is designed to prepare students for entry level employment in the hospitality and tourism industry. Preparation for daily operation of hotels and restaurants include areas such as planning and marketing; management; finance; and operations; technical and production skills; technology; human relations; labor, community, and environmental issues; and safety. This is a required course for the Restaurant and Food/ Beverage Services major.

## **MARKETING, SALES AND SERVICE CLUSTER**

**Advertising (GHS, LTC, RBHS, WKHS)** **547000CW**  
**Grades 10–12** **1 unit**

This course is suggested for students who are considering a career in business and marketing. Students learn about concepts of advertising, planning strategies, communications skills, and professional development. Students will complete hands-on activities involving budget development, media selection, ad design, and preparation of ads for various media. Course content also covers publicity, visual merchandising, and special sales events. Career opportunities, work ethic, communication strategies, and mathematics skills are

addressed. This is a required course for the Marketing Communications major.

**Entrepreneurship** 54000CW  
(GHS, LTC, RBHS, WKHS)  
Grades 12, 11 1 unit

This course is suggested for students who are considering opening their own business or having a career in business or marketing. They learn how to set up and operate a profitable business, starting with a business plan. This course helps them understand business operations, and provides them with the techniques, skills, sources of data and detailed information needed to operate a profitable business. This is a required course for the Marketing Communications major and a complementary course for the Merchandising major.

**Fashion Merchandising 1** 541000CW  
(LTC, RBHS, WKHS)  
Grades 11, 10, 12 1 unit

This course is designed to introduce students to some of the basic fashion principles within the retail industry and provide students with a general overview of factors that affect apparel selection. Course topics include fashion terminology, color and color schemes, silhouettes and body types, fiber and fabric construction, the fashion cycle and theories of fashion movement, and careers within the retail industry. Students also research the history of fashion and significant fashion designers. This course is largely project based and should help prepare students for a possible career within the retail industry.

**Fashion Merchandising 2** 541001CW  
(LTC, RBHS)  
Grades 12, 11 1 unit

**Prerequisite:** Fashion Merchandising 1

This course is a second-level marketing specialty course that focuses on the retail segment of the fashion industry. Students study the organization of the retail fashion segment, retail positioning, merchandise planning and buying, fashion sales and service, fashion promotion, merchandise planning and buying, fashion sales and service, fashion promotion, visual merchandising, special events and fashion forecasting. Completers are well-prepared to continue post-secondary studies in fashion merchandising or marketing or to pursue employment in fashion merchandising, sales and sales support services, or retail management.

**Digital Fashion Design** 509901CW  
(LTC)  
Grades 10–12 1 unit

**Prerequisite:** Fashion Merchandising 1

This course introduces a variety of computer design techniques related to the field of fashion design. Using Adobe Illustrator and flat drawing techniques, students focus on sketching, color stories, line planning, silhouette, and fabric design in order to create their own original fashion designs. Students apply their knowledge of elements and principals of design learned in Fashion Merchandising as well as continued research to develop a fashion design portfolio including past and upcoming trends and styles.

**Marketing** 542100CW  
Grades 11, 10, 12 1 unit

This course prepares students for careers in business, marketing, management and entrepreneurship. Students develop competencies in business fundamentals including human relations, communications, selling, promotion and financing. The instructional program emphasizes the competencies necessary for an individual to achieve success in advertising, buying, fashion merchandising, banking, tourism and business ownership. The importance of the free-enterprise system in a global economy and the American work ethic is stressed. Students learn the importance of the free-enterprise system in a global economy and a strong work ethic. This is a required course for the Marketing Communications, Merchandising, and Marketing Management majors.

**Marketing Management** 543101CW  
(LTC, RBHS, WKHS)  
Grades 11, 12 1 unit

**Prerequisite:** Marketing

This course further prepares students for careers in business, marketing, management and entrepreneurship. It expands students' knowledge to make decisions concerning location, promotion, planning, pricing and competition. Each student selects a type of business and develops a business plan to include financing, organization, management and marketing. Students develop competencies in business fundamentals including human relations, communications, selling, promotion and financing. The curriculum stresses the importance of the free-enterprise system in a global economy and the American work ethic. The instructional program emphasizes the competencies necessary for an individual to achieve success in marketing fields such as advertising, buying, fashion merchandising, banking, tourism and business ownership. The skills developed in marketing help students pursue degrees in business administration, retailing, marketing and management. This is a required course for both the Marketing Communications and Marketing Management majors.

**Small Business Operations** 549920CW  
(RBHS)  
Grade 10–12 1 unit

**Prerequisite:** Integrated Business Applications 1

**Recommended:** Marketing, Entrepreneurship, Fashion Merchandising 1

Small Business Operations is a two-semester course designed for students interested in learning how to manage a small business. Students are required to participate in laboratory work. The lab experience consists of operating a school-based enterprise. Students also complete a series of lessons designed to prepare them for the transition to higher education and/or an entrepreneurial career.

**Sports and Entertainment Marketing** 542500CW  
(GHS, LTC, RBHS, WKHS)  
Grades 11, 10, 12 1 unit

This course is appropriate for students who are considering a career in business, marketing, sports marketing or sports and entertainment management. It focuses on using sports to market products and influencing how people choose to use their time and money. Students study marketing concepts with an emphasis on the sport and entertainment industries. Sports topics discussed include sponsorships, licensing, endorsements, public relations and careers in sports marketing. Entertainment topics include finance in the motion picture industry, entertainment distribution, promotion of music and careers in the entertainment marketing field.

**Sports and Entertainment Management** 542601CW  
(GHS, LTC, RBHS, WKHS)  
Grades 12, 11 1 unit

**Prerequisite:** Sports and Entertainment Marketing  
This course is a continuation of Sports and Entertainment Marketing. In this course, students study key concepts in management and managerial principles, as related to the sports and entertainment industry. Topics that will be addressed include leadership, finance, product management, people management, information management, legal and ethical issues, customer relations, sales management, managing change, and career development. Students who are considering careers in the following areas will benefit from this course: sports and entertainment law, box office management and sales, group sales, public sales, marketing, operations, development, sports programming and other various managerial and leadership positions within the sports and entertainment industry.

**Virtual Enterprise** 515000CW  
(LHS, RBHS, WKHS)  
Grades 10–12 1 unit

**Prerequisite:** Integrated Business Applications 1  
**Recommended:** At least one of the following courses: Web Page Design, Accounting, Marketing, Advertising, Personal Finance or Entrepreneurship  
Virtual Enterprise is a simulated business environment, which is a part of a national curriculum from Virtual Enterprises International and the South Carolina Virtual Enterprises Network that allows students to experience within a simulated business all facets of being an employee in a firm. The program allows students to run simulated offices in their schools and engage in virtual trading with other practice firms. The program provides students with interdisciplinary instruction and an in-school work experience to develop school-to-career skills including accounting, personnel administration, management, marketing, and Web site development. The goal of Virtual Enterprise is to create a learning environment that integrates school and workplace to enhance learning. This course may be taken four times.

**FINANCE CLUSTER**

**Accounting 1** 500100CW  
Grades 10, 11, 12 1 unit

This course helps students develop the skills necessary for the highly technical interaction between accounting and business. Students focus on accounting concepts, principles and practices. They also study procedures used in an accounting cycle as applied to several different kinds of business operations. Use of the computer in simulated activities gives students an opportunity to see the advantages of technology in accounting procedures.

**Accounting 2** 500500CW  
Grades 12, 11 1 unit

**Prerequisite:** Accounting 1  
This course expands the student's understanding of accounting subsystems and develops an understanding of various methods of internal control procedures. Students develop competence in using subsidiary ledgers, preparing financial statements and performing end-of-period procedures. Students demonstrate the use of accounting principles through the use of computer software and simulated activities. After completing this course, students may be eligible to exempt Accounting 101 at Midlands Technical College.

**Personal Finance** 513102CW  
Grades 11, 12, 10 1 unit

This course introduces students to financial literacy by solving real-life problems as related to financial matters. Topics include completion of W-4 and tax forms, reconciling bank accounts, budgeting, buying insurance, using credit, and investing in stocks and real estate. The course focuses on setting up accounts, adding transactions to the register, using transaction categories, balancing the checkbook and writing checks. Speakers and current videos are a vital part of the course.

**Virtual Enterprise** 515000CW  
(RBHS, WKHS)  
Grades 10–12 1 unit

See previous page.

**SCHOOL OF ENGINEERING, MANUFACTURING AND INDUSTRIAL TECHNOLOGIES**

**AGRICULTURE, FOOD AND NATURAL RESOURCES CLUSTER**

**Agricultural and Environmental Sciences** 562400CW  
(GHS, PHS)  
Grades 9, 10 1 unit

This course is designed to teach essential concepts and understanding related to plant and animal life including biotechnology, the conservation of natural resources, and the impact of agriculture and natural resource utilization on the environment. Emphasis is placed on the role of agriculture in society and the importance of agriculture to the welfare of the world. Personal and community leadership, safety and agricultural mechanical technology are also covered. Each student is expected to design and participate in a supervised agricultural experience.

**Agricultural Mechanics and Technology** 566001CW  
(GHS, PHS)  
Grades 10–12 1 unit

**Prerequisite:** Agriculture and Environmental Sciences  
Agriculture Mechanics and Technology is designed as an introductory course to the Agriculture Mechanics Career Pathway. In addition, it provides development of general mechanical skills which are required in all areas of Agricultural Education. Typical instructional activities include hands-on experiences in surveying, woodworking, metal working, welding, small engine maintenance, basic farm and homestead improvements, participating in personal and community leadership development activities, planning and implementing a relevant school-to-work transition experience, and participating in FFA activities.

**Agricultural Technology and Development** 562100CW  
(PHS)  
Grades 10–12 1 unit

This course is designed to teach students appropriate utilization and modern techniques and skills involving agricultural technology. The course includes lab experiences involving equipment used in all four of the Agriculture, Food and Natural Resources pathways: Horticulture; Plant and Animal Systems; Environmental and Natural Resources Management; and Agricultural Mechanics and Technology. Typical instructional activities include hands-on experiences with agricultural power units, participating in personal and

community leadership development activities, planning and implementing a relevant school-to-work transition experience, and participating in FFA activities.

**Environmental & Natural Resources 1 (LTC)** **562600CD**  
**Grades 11, 10** **2 units**

This course is the first year of a two-year program in Environmental and Natural Resources Occupations. It provides an in-depth combination of subject matter and planned learning experiences focusing on the principles involved in the conservation and/or improvement of natural resources. Topics included are soils, wildlife management, pesticide use and safety, pond management, plant science, plant identification, equipment maintenance and safety, etc. In addition, students gain valuable experience in this field by producing a variety of horticultural crops common to this area.

**Environmental and Natural Resources 2 (LTC)** **562700CD**  
**Grades 12, 11** **2 units**

**Prerequisite:** Environmental and Natural Resources 1

Environmental and Natural Resources Occupations is a two-year course with a combination of subject matter and planned learning experiences concerned with the principles involved in the conservation and/or improvement of natural resources. Instruction emphasizes the conservation of soil, water and forests. Some topics included in the course are: plant, soil and land identification; landscape design; pesticide use and safety; and forest measurements. The horticulture industry is also emphasized as a major part of the course.

**After completing this course, students may be eligible to exempt courses through an articulation agreement at Spartanburg Technical College. Enrollment consideration is given to students who are considering the Agricultural program at Clemson University.**

**Forestry (GHS, PHS)** **564200CW**  
**Grades 10–12** **1 unit**

This course is designed to teach technical knowledge and skills for entry-level positions in the production, protection and management of timber and specialty forest resources. Typical instructional activities include: hands-on experiences with assessing environmental factors affecting forest growth; cruising timber; planting trees; managing an established forest; selecting, grading and marketing forest raw materials for conversion into a variety of consumer goods; harvesting timber or pulpwood; operating and maintaining equipment; managing forests for multiple-purpose uses such as game preserves and recreation; participating in personal and community leadership development activities; and planning and implementing a relevant school-to-career transition experience.

**Nursery, Greenhouse and Garden Center Technology (GHS, PHS, LTC)** **567200CW**  
**Grades 10–12** **1 unit**

This course teaches technical knowledge and skills for entry-level positions in the production, processing and distribution of flowers, foliage and related plant materials. The course focuses on best management practices in field and greenhouse production of flowers and related plant materials and the ornamental arrangement of plant materials.

**Landscape Technology ★** **567000CW**  
**(GHS, LTC, PHS)**  
**Grades 10–12** **1 unit**

This course is designed to qualify students for job entry in the landscaping field or to prepare students to continue advanced training in post-secondary education. A combination of subject matter and activities is designed to teach technical knowledge and skills for entry-level positions in selling, selecting and servicing. Students use a CAD program as well as standard drafting techniques for landscape design.

**Turf and Lawn Management (PHS)** **565400CW**  
**Grades 11, 12, 10** **1 unit**

This course teaches technical knowledge and skills for entry-level positions in the turf grass industry. The principles and practices involved in establishing, managing and maintaining grassed areas for ornamental and/or recreational purposes are studied. Typical instructional activities include: hands-on experiences with analyzing problems and developing site plans for golf courses and commercial, church and home lawns; establishing, fertilizing, irrigating and pest management control of grassed areas; operating and maintaining machinery and equipment; participating in personal and community leadership development activities; and planning and implementing a relevant school-to-career transition experience.

**Wildlife Management (GHS, PHS)** **567400CW**  
**Grades 10, 11, 12** **1 unit**

This course teaches technical knowledge and skills for entry-level positions in the conservation and/or management of wildlife enterprises. Instruction includes: hands-on experiences with analyzing problems and developing site plans, including the essential elements, concepts and skills related to wildlife management; understanding basic ecological concepts; implementing habitat management practices; identifying wildlife and fish species; analyzing policies, laws and regulations; using natural resources for outdoor recreation; participating in personal and community leadership development activities; and planning and implementing a relevant supervised agricultural experience.

**ARCHITECTURE AND CONSTRUCTION CLUSTER**

**Introduction to Building Construction (PHS)** **629901CW**  
**Grades 9, 10** **1 unit**

This course is designed to introduce the students to a range of career opportunities in the construction field. Students are given instruction on basic shop safety and safety around power tools. Students practice tape measure reading and operating power tools while learning to work with others. This course is non-occupational and does not count toward a two-year completer program in a technology major.

**Building Construction 1 (GHS, PHS)** **606000CD**  
**Grades 10–12** **2 units**

This course is part of the instructional program that prepares students to perform entry-level building construction tasks under the direction of a supervisor or an experienced craftsman. Primary instruction is given in basic carpentry, masonry, residential electricity and plumbing and safety practices.

**Building Construction 2**                      **606100CD**  
(GHS, PHS)  
**Grades 11, 12**                                      **2 units**

**Prerequisite:** Building Construction 1

This course provides in-depth instruction on floor systems, wall framing, roofing and brick masonry. Students learn to read and interpret blueprints, sketches and building plans. Students may be eligible to participate in cooperative work experiences or apprenticeships, which combine career and technology training with supervised work experience in business and industry.

**Carpentry 1**                                      **609100CD**  
(LTC)  
**Grades 11, 10, 12**                                      **2 units**

This course introduces the study of safety and hand tools. Students construct and repair structures of wood and plywood using hand and power tools. Students learn to frame a residential building, install roofing shingles and siding, do interior and exterior painting, and complete the basics in cabinetwork.

**Carpentry 2**                                      **609200CD**  
(LTC)  
**Grades 12, 11**                                      **2 units**

**Prerequisite:** Carpentry 1

This course teaches students to: read and interpret blueprints, sketches and building plans; frame carpentry; trim carpentry; cabinet making; roofing; painting; and drywall hanging. Practical work on residential structures is emphasized. Students build a 1,300-square-foot house. Students may be eligible to participate in cooperative work experiences or apprenticeships, which combine career and technology training with supervised work experience in business and industry. Students participating in this program have the opportunity to enroll in the Association of General Contractors Apprenticeship Program, a nationally recognized certification program.

**Cabinetmaking**                                      **608001CD**  
(LTC)  
**Grade 12**    **2 units**

**Prerequisite:** Carpentry 2

This course introduces students to the fundamentals of cabinetmaking. Students learn how to apply veneers and plastic laminate on countertops and tabletops. Students use detailed shop plans to complete a layout and design of cabinets, cut and shape components, and assemble components to industry standards. Students apply various finishes to surfaces including lacquers, stains, polyurethane and other finishes. A practical application of this class is the installation of finished cabinets in the student house project completed by the carpentry program.

**Mechanical Design ★**                                      **617200CW**  
(GHS, LTC, RBHS, WKHS)  
**Grades 9–11**    **1 unit**

This course is designed to expand students' knowledge of the skills needed to be involved in an engineering field. This class uses CAD software. Units of study include manual drafting equipment, geometric construction, single-view drawings, multi-view drawings, dimensioning, and isometric and oblique drawings.

**Architectural Design 1**                                      **617000CW**  
(GHS, LTC, RBHS, WKHS)  
**Grades 9, 10, 11, 12**                                      **1 unit**

Architecture is more than just the walls around us. The form and function of the spaces we live and work in are at the heart of how any design comes to life. This course investigates how the structure is designed and built as well as the layout of spaces between the walls. Students gain knowledge to implement their 2D design on paper into a 3D structure in AutoCAD Architecture ®. Building vocabulary and the fundamentals of design are stressed.

**Architectural Design 2**                                      **617100CW**  
(GHS, LTC, RBHS, WKHS)  
**Grades 12, 11, 10**                                      **1 unit**

**Prerequisite:** Architectural Design 1

This course is a continuation of the concepts and skills learned in Architectural Design I. Students use the BIM (Building Information Modeling) CAD 3D software program ArchiCAD ® and are introduced to Revit Architecture ®. Students design residential and commercial structures and produce a full set of construction drawings. Students also research a well-known Architectural landmark and build a model of their choice.

**Architectural Design 3**                                      **529918HW**  
(LTC)  
**Grades 12, 11**    **1 unit**

**Prerequisite:** Architectural Design 2

In this course students are expected to practice concepts learned from Architectural 1 & 2 and apply those concepts in class. Students gain knowledge of 'green building', the design process and all necessary disciplines (mechanical, electrical, plumbing, civil, and structural) to construct a building from start to finish. Students work in teams for most projects to design a functional building that could be used in today's society. Field studies are also incorporated.

**Introduction to Construction**                                      **600100CW**  
(LTC)  
**Grades 9–11**    **1 unit**

This course begins the study of such topics as hand tools, power tools, safety in the workplace and blueprint reading. Students complete hands-on tasks as they work with hand tools and construct a working electrical board. Students with an interest in this class might pursue such jobs as a tradesman, journeyman, construction worker, foreman or general foreman, job superintendent, buyer, manager, contractor, to name just a few. The course also lays a good foundation for the engineering groups.

**Electricity 1**    **628700CD**  
(LTC)  
**Grades 11, 10, 12**    **2 units**

This course begins the study of conduit bending; electrical theory; test equipment; introduction to the electrical code; safety in the workplace; residential, commercial and industrial wiring; and blueprint reading. Students work with hand tools and construct a working electrical workstation. Students participating in this program have the opportunity to enroll in the Association of General Contractors Apprenticeship Program, a nationally recognized certification program. Students may be eligible to participate in cooperative work experiences or apprenticeships, which combine career and technology training with supervised work experience in business and industry.

**Electricity 2** **628800CD**  
(LTC)  
**Grades 12, 11** **2 units**

**Prerequisites:** Electricity 1

This course begins the study of alternating current, electrical motors, grounding, conduit bending, cable trays, electrical services and electrical lighting. Students work with hand tools, power tools, blueprints and floor plans to construct a real house that is later sold to the public. The house must pass the building inspections process. Students participating in this program have the opportunity to enroll in the Association of General Contractors (AGC) Apprenticeship Program. This is a nationally recognized certification program. Students may be eligible to participate in cooperative work experiences or apprenticeships, which combine career and technology training with supervised work experience in business and industry.

### **MANUFACTURING CLUSTER**

**Machine Technology 1** **623000CD**  
(LTC)  
**Grades 11, 10, 12** **2 units**

This course provides classroom instruction and lab experiences related to metalworking. It focuses on the operation of equipment such as the lathe, milling machine, grinders, drilling machines, precision measuring instruments and hand tools. Blueprint reading and math are important parts of the course. Students who register for this course should enjoy working with machines and making metal projects.

**Machine Technology 2** **623100CD**  
(LTC)  
**Grades 12, 11** **2 units**

**Prerequisite:** Machine Technology 1

This course includes advanced instruction machining metal. The course focuses on milling machines, boring and drilling, the use of surface grinders, vertical and horizontal boring and drilling machines, basic study of CNC equipment, job seeking, public relations and manufacturing facilities. Students may be eligible to participate in cooperative work experiences or apprenticeships, which combine career and technology training with supervised work experience in business and industry. These school-to-career programs must have prior approval by the instructor and the district's School-to-Career Coordinator. Students who complete this program may be eligible to exempt MTT 121 and 122 at Midlands Technical College and Aiken Technical College.

**Welding Technology 1** **634000CD**  
(LTC)  
**Grades 11, 10, 12** **2 units**

This course focuses on the physical properties of metals as well as the testing of welded joints. Students learn oxyfuel and plasma cutting. They also study welding techniques (shielded metal arc, gas metal arc, gas tungsten arc and flux core arc). Students study safety issues, read blueprints and design projects.

**Welding Technology 2** **634100CD**  
(LTC)  
**Grades 12, 11** **2 units**

**Prerequisite:** Welding Technology 1

Welding 2 concentrates on the study of advanced cutting and welding techniques. Students fabricate projects from blueprints and design projects. Students may be eligible to participate in cooperative work experiences or apprenticeships, which combine career and technology training with supervised work experience in business and industry.

**Welding Technology 3** **634200CD**  
(LTC)  
**Grade 12 and 11** **2 units**

**Prerequisites:** Welding 2.

Welding Technology 3 students continue to study advanced welding processes. Students weld in all positions using SMAW, GMAW, GTAW, and FCAW. Students weld on carbon steel, stainless, and aluminum. Students learn destructive testing methods as well as visual testing methods. Students in this class learn how to obtain welding certifications in the (3G) and (4G) positions. Students practice advanced cutting skills using Oxy-Fuel and Plasma cutting torches. Students fabricate projects from blueprints and weld them with multiple welding processes.

### **SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS CLUSTER**

**Computer Service Technology** **532000CW**  
**(A+ Certification) (LTC)**  
**Grades 10–12** **1 unit**

**Prerequisite:** Algebra 1

This course is an advanced phase of the electronics program. Core electronics skills are recommended as prerequisites. This course provides an in-depth study of the physical and logical architecture of a PC. Students assemble a computer; install and configure peripheral devices, operating systems and application software; and perform hardware and software fault isolation. Students install, operate, isolate faults and repair printers. Students also study network principles, configuration and fault isolation. After completing this course, students should be capable of successfully completing the CompTIA A+ examination series.

### **Computer Networking Systems/CISCO Networking Academy**

The CISCO Networking Academy consist of four semesters or 280 hours of instruction. This sequence of four courses provides students with a basic foundation in networking. Students who successfully complete this portion of the program are eligible to earn CISCO Certified Network Associate (CCNA™) certification while laying the foundation for a number of other industry-standard certifications.

**Students are able to continue their next semester of CISCO Networking Academy training at one of many Regional Academy Training Centers by successfully completing the prerequisites offered by this class. Midlands Technical College is our regional academy.**

**Networking 1 (CISCO)** **531001CW**  
(LTC)  
**Grades 10, 11, 12** **1 unit**

Networking 1 is designed to provide students with classroom and laboratory experience in current and emerging networking technologies. Student benefits most from the curriculum if they possess a strong background in reading, math, and problem solving skills. Instruction includes networking media, topologies, network operating systems, models and protocols, codes and standards, addressing, diagnostics, routing, WAN services, network security, and leadership skills. In addition, instruction and training are provided in the proper care, maintenance, and use of networking software, tools, and equipment.

## **ENGINEERING SEQUENCE**

The engineering sequence is comprised of four elective courses from the list below. Examples of majors can be found on the Focus on Engineering Majors chart in the General Information section of the course catalog. Additionally, students in the 11th grade may choose to enroll in specialized coursework and become a graduate of the Center for Advanced STEM Studies at Lexington Technology Center. More information on the center can be found in the Schools of the Future—Now! section of the catalog.

### **Introduction to Engineering ★** **609501CW** **Grades 9, 10, 11** **1 unit**

This STEM course is a basic introduction to engineering for all students. Students who complete this course will learn the concepts necessary in order to develop their ideas into solutions that will improve our lives. Exciting hands-on learning activities like data comparison of heart rates, rating consumer products, descriptive testing and 3D solid modeling apply math, science, history and English content from other courses in a STEM experience.

### **Electronics for Engineers—Honors (LTC)** **609906HW** **Grades 11, 12** **1 unit**

This Center for Advanced STEM Studies elective course focuses on applied logic that encompasses the application of electronic circuits and devices. Computer simulation software is used to design and test digital circuitry prior to actual construction of circuits and devices. A major focus of this course is the introduction of PLC (Program Logic Controllers). These devices are the artificial intelligence used to operate over 100 manufacturing facilities in the greater Columbia area.

### **Green Methods Honors** **609911HW** **Grades 11, 12 10** **1 unit**

This Center for Advanced STEM Studies elective course provides focuses on sustainability and renewable energy. It offers insight into decisions concerning renewable energy that occur daily at a personal, local, national and global level. A study of the “101 things we all need to know” is included as part of the focus on issues concerning food, shelter, water, air, energy, waste, transportation and consumerism.

### **Materials Science Honors** **609912HW** **Grades 11, 12 10** **1 unit**

This Center for Advanced STEM Studies elective course features hands-on labs combining science, ingenuity, and creativity in a multidisciplinary approach to science and technology. Students learn about materials, materials uses and applications, scientific theories, and practical experiences that prepare them to work in a technologically-rich environment.

### **Mechanical Design ★** **617200CW** **(GHS, LTC, WKHS)** **Grades 9–11** **1 unit**

This course is designed to expand students’ knowledge of the skills needed to be involved in an engineering field. This class uses CAD software. Units of study include manual drafting equipment, geometric construction, single-view drawings, multi-view drawings, dimensioning, and isometric and oblique drawings.

### **3D Solid Modeling** **617301CW** **Grades 10, 11** **1 unit**

**Prerequisite:** Mechanical Design or Introduction to Engineering

Learning 3D design is an interactive process whereby ideas become reality. Since students learn best when they explore the practical applications of the concepts they learn, this STEM course has many activities and exercises that enable students to put design concepts into practice. Students create ideas such as artificial heart components, extreme sports equipment, hip replacement parts, robotic arm components, and musical instruments and their parts. Students will be eligible to become a Certified Solid Works Associate (CSWA).

## **TRANSPORTATION, DISTRIBUTION AND LOGISTICS CLUSTER**

### **Auto Collision Repair Technology 1 (LTC)** **602000CD** **Grades 11, 10, 12** **2 units**

**Medical Alert:** Students with asthmatic conditions should be aware of dust and fume concerns.

This course introduces the structure of the automobile and the use of all tools necessary for body panel repairs and refinishing. First-year students, focusing on basic repair skills, accomplish actual repair jobs. Hands-on skill development and production activities comprise three-fourths of the course with the remaining being spent in a formal classroom setting. Students participating in this program have the opportunity to become certified by ASE (Automotive Service Excellence) and in I-CAR (Inter-Industry Conference on Auto Collision Repair).

### **Auto Collision Repair Technology 2 (LTC)** **602100CD** **Grades 12, 11** **2 units**

**Prerequisite:** Auto Collision Repair Technology 1

**Medical Alert:** Students with asthmatic conditions should be aware of dust and fume concerns.

This course allows students to study paint finishes and, after proper proficiency is displayed, paint automobiles. Students learn the basic fundamentals of MIG welding. The measuring, pulling and straightening of collision cars is studied. Students also become proficient at shop management and damage estimating. Students participating in this program have the opportunity to become certified by ASE (Automotive Service Excellence) and in I-CAR (Inter-Industry Conference on Auto Collision Repair). Students may be eligible to participate in cooperative work experiences or apprenticeships, which combine career and technology training with supervised work experience in business and industry.

### **Automotive Technology 1 (LTC)** **603000CD** **Grades 11, 10, 12** **2 units**

This course teaches students to become proficient in the use of automotive fasteners, gaskets, sealants, liquids and fluids, writing work orders, tire and wheel services, and vehicle chassis lubrication. Students learn basic engine fundamentals, minor engine tune-ups and brake systems. Students need computer keyboarding skills to operate diagnostic equipment and access vehicle service manuals.

**Automotive Technology 2**                      **603100CD**  
(LTC)  
**Grades 12, 11**                                      **2 units**  
**Prerequisite:** Automotive Technology 1

This course teaches theory and principles of major engine tune-ups. Actual work experience includes: batteries and starting systems; alternators and charging systems; computer command controls and electronics; ignition systems; fuel supply and emission control systems; exhaust, lubricating and cooling systems; and car body electrical and accessory systems. Students conduct: chassis and suspension system repairs and services; computerized wheel alignment; and differential and drive-axle assemblies and services. Students may be eligible to participate in cooperative work experiences or apprenticeships, which combine career and technology training with supervised work experience in business and industry. Students who complete this program may be eligible to exempt AUT 105, AUT 106 and AUT 112 at Midlands Tech.

**Power Equipment Technology 1**    **630001CD**  
(LTC)  
**Grades 11, 10, 12**                                      **2 units**

This course introduces students to small gasoline engines regardless of the level of knowledge on the subject. Practical application in the lab provides instruction on two and four cycle theory and repair. A self-paced CD-ROM system along with practical application in the lab gives instruction on two- and four-cycle theory and repair. General safety and the proper use of tools and equipment associated with small gasoline engine repair are also covered.

**Power Equipment Technology 2**    **630101CD**  
(LTC)  
**Grades 12, 11**                                      **2 units**

**Prerequisite:** Power Equipment Technology 1  
This course undertakes the study of more complex engines and power transmission systems. Students are involved with outboard and motorcycle repair as well as high-performance applications of small engines. Instruction in realistic shop situations is presented along with a thorough investigation of career opportunities. Students may be eligible to participate in cooperative work experiences or apprenticeships, which combine career and technology training with supervised work experience in business and industry.

## **SCHOOL OF HEALTH SCIENCE AND HUMAN SERVICES**

### **HEALTH SCIENCE CLUSTER**

**Health Science 1**                                      **555001CW**  
**Grade 10, 11, 9, 12**                                      **1 unit**

Health Science 1 is the first of four courses offered to students interested in pursuing a career in the healthcare field. During this course, students are introduced to healthcare history, careers, law and ethics, cultural diversity, medical terminology and medical math, infection control, professionalism, communication, the basics of healthcare facilities and types of healthcare insurance. Students gain information on where healthcare has been, where it is going, and how professionalism and personal characteristics impact their success. The skills and knowledge the students learn in Health Science 1 serve to prepare them to advance in all Health Science experiences.

**Health Science 2**                                      **555101CW**  
**Grade 11, 12, 10**                                      **1 unit**

**Prerequisite:** Health Science 1  
**Recommended:** Grade of 80 or better in Health Science 1  
Health Science 2 applies the knowledge and skills while further challenging the students to learn more detail about the field of healthcare. Students begin learning basic skill sets associated with the medical profession and how to evaluate data obtained from the skills. Students apply and demonstrate medical terminology and medical calculations. Students in this course should further their knowledge of healthcare careers and future goals by participating in a job shadowing experience. The curriculum includes certification in CPR through the American Heart Association. This course provides a foundation for further advancement in Health Science. The course is based on HealthCenter21 curriculum and meets the National Health Care Foundations Standards

**Health Science 3**                                      **555201CW**  
**Grade 11 and 12**                                      **1 unit**

**Prerequisite:** Health Science 2 or Sports Medicine 1  
**Recommended:** Grade of 80 or better in Health Science 2 or Sports Medicine 1  
Health Science 3 focuses on the human body. Students gain knowledge of all human body systems and how they work (Anatomy and Physiology). This course emphasizes the study of disease, prevention and treatment (Pathophysiology). Students participate in teamwork activities for assigned projects. Medical Terminology is incorporated throughout the course. Skills in Health Science 2 are reinforced as each body system is studied.

**Health Science Clinical Study Honors**                                      **556000HD**  
**Grade 12**    **2 units**

**Prerequisite:** Health Science 3 (Health Science 3 may be substituted with Project Lead the Way Human Body Systems, Medical Terminology, Anatomy & Physiology or AP Biology), and completion of application for screening process.

**Requirement:** Documented negative tuberculin skin test annually or documented negative two-step. Documentation verifying three hepatitis B vaccinations or signed declination; two measles, mumps, rubella vaccinations; two varicella (chicken pox) vaccinations or serological immune status for rubella, rubeola, mumps and varicella. Students must provide transportation to health care facility.

**Recommended:** Grade of 80 or better in Health Science 3 or the substitution courses.

Health Science Clinical Studies is designed to give students an opportunity to gain clinical experience. A combination of classroom instruction and work based experiences are used to prepare students for post-secondary education or employment in the health-care field.

Students complete the development of their personal career portfolio and resume'. The students apply theory and skills to act ethically and within legal boundaries, communicate and relate to co-workers and patients, think critically and solve problems, and provide safe, effective care to patients in clinical areas such as hospitals, doctors' offices and long term care facilities. Recertification in American Heart Association CPR is included. Students are given at least 80 hours of classroom instruction and 20 hours of laboratory time. The students access HealthCenter 21 online programs for beginning instruction for preparation of laboratory skills. The curriculum is based on the National Health Care Foundations Standards. Upon completion of this course, students may be eligible to take the Nurse Aide Exam for certification. The Nurse Aide Exam fees are the responsibility of the student.

**Pharmacology for Medical Careers (LTC)** **557002CW**  
**Grade 12** **1 unit**  
**Prerequisites:** Chemistry, Algebra 2

Pharmacology for Medical Careers is a program designed for students interested in a Medical career. The course introduces students to basic terminology, medications and their actions, laws affecting medication prescription, medical calculations, and basic operations of a pharmacy. Upon completion of this course, students may be able to take the National Pharmacy Technician Certification Board Exam. Students are required to purchase access to the internet based program. The Pharmacy Technician Board Exam fees are the responsibility of the student.

Note: The cost of the national curriculum program used in this course is \$250.

**Clinical Medical Terminology** **554001CW**  
**Grades 12, 11** **1 unit**

**Prerequisite:** Health Science 3 or Anatomy and Physiology  
Clinical Medical Terminology is designed to develop students' working knowledge of the language of medicine. Students acquire word-building skills by learning prefixes, suffixes, roots and abbreviations. By relating terms to body systems, students learn the appropriate use of terms that are used in the medical environment. Clinical Medical Terminology may be used as an exemption for Health Science 3.

**Note:** Students are required to purchase the course workbook.

**Medical Terminology** **554000EW**  
**Grades 11, 12** **1 unit**

**Prerequisite:** Biology 1

A dual credit version of Medical Terminology (AHS 102 Midlands Technical College) is also available if student enrollment permits.

**Sports Medicine 1** **555500CW**  
**Grades 10–12** **1 unit**

This course is an introduction for students interested in career opportunities available as athletic trainers, physical therapists and physicians in the sports medicine field. Students learn basic anatomy and physiology as it relates to principles of conditioning and the treatment of athletic injuries. Instruction also includes CPR, first aid and taping. General principles for the prevention, care and rehabilitation of injuries are emphasized during practicums.

**Sports Medicine 2** **555600CW**  
**Grades 10–12** **1 unit**

**Prerequisite:** Sports Medicine 1

This course is designed as a continuation of Sports Medicine 1 for students interested in career opportunities available as athletic trainers, physical therapists and physicians in the sports medicine field. Students are instructed in basic body anatomy and physiology as it relates to principles of conditioning and the treatment of athletic injuries. Students study both protective and supportive devices used in prevention and care of athletic injuries.

**Sports Medicine Clinical (work-based credit)** **559100CW**  
**Grades 11–12** **1 unit**

**Prerequisite:** Sports Medicine 1 and 2, current CPR/AED certification

This course emphasizes work-based experiences to prepare students for post-secondary education in the field of sports medicine and other allied health fields. The course combines instruction in the school's athletic training facility with the certified athletic trainer(s) and a six-week (60 hours) work-based experience off campus with a sports medicine specialist(s) including but not limited to physicians, athletic trainers, physical therapists, occupational therapist, massage therapists, registered dietician, etc. Students must complete 180 hours of combined instruction. Students are evaluated using the grading criteria established for work-based credit courses. The internship application is on the district website ([www.lexington1.net/wbi](http://www.lexington1.net/wbi)) and should be completed and submitted to the school's career specialist.

### **HUMAN SERVICES CLUSTER**

**Cosmetology 1 (LTC)** **615000CD**  
**Cosmetology 2 (LTC)** **615100CD**  
**Grade 11** **4 units**

To become a cosmetologist, the State Board of Cosmetology requires students to pass a theory test and a practical test of skills. Students must complete Cosmetology 1 and 2 and Cosmetology 3 and 4, and pass the exam to receive a cosmetology license from the South Carolina Department of Labor, Licensing and Regulation Board. Personal appearance care service workers participate in continuing education and training at salons, cosmetology schools and product shows. Students assist individuals with their personal appearance including shampooing, cutting, coloring and styling hair. Students learn to give manicures, pedicures, scalp treatment, facials and makeup analyses. Students clean and style wigs and hairpieces.

**Please note:** Consumable supplies for this course range between \$300 and \$325. In addition, each Level 1 and 2 student must purchase a personal kit for approximately \$400.

**Cosmetology 3 (LTC)** **615200CD**  
**Cosmetology 4 (LTC)** **615300CD**  
**Grade 12** **4 units**

**Prerequisite:** Cosmetology 1 and 2

Personal care services students continue an in-depth study of hairstyling, haircutting, chemical services, skin and nails. Cosmetology 3 and 4 provides preparation for passing the written and practical exam for the South Carolina license from the South Carolina Department of Labor, Licensing and Regulation Board. These courses are equal to nine months of private school training at a cost of \$18,000–\$22,000.

### **SCHOOL OF PUBLIC SERVICES**

#### **LAW, PUBLIC SAFETY AND SECURITY CLUSTER**

**Business Criminal Justice (LTC)** **549919CW**  
**Grades 12, 11** **1 unit**

This course includes an overview of the functions and responsibilities of agencies involved in the administration of justice including police organizations, court systems, correctional systems and juvenile justice agencies. It also covers certain kinds of crimes, and the nature, cause and control of criminal behavior. This course is designed for those students interested in a post-secondary study of the law. This course is not designed for those students interested in Protective Services.

**Emergency Responder (LTC)** **659909CW**  
**Grades 12, 11** **1 unit**

**Prerequisite:** Law Enforcement 1, Emergency and Fire Management Services 1, Sports Medicine 1, or Environmental and Natural Resources 1

This course is designed to provide students with the knowledge to complete the Red Cross Emergency Responder Certification that is required for an emergency services agency. Subjects include patient care, advanced first aid, and CPR certification for the professional rescuer.

**Note:** Successful completion of written and performance testing is required for certification.

**Emergency and Fire Management Services**

Lexington School District One's objective is for students to graduate with workplace credentials in Emergency and Fire Management Services 1 and 2. However, students enrolling in the first level class prior to their 16th birthday will not be able to complete both years of certification during high school. Lexington Technology Center recommends that initial enrollment in the firefighting program occur after the student's 16th birthday. Students must meet external eligibility requirements and be accepted into the Lexington County Firefighting Explorers Post (LTC Chapter) in order to be eligible for firefighting certification.

**Note:** Explorer Post eligibility and achievement are not required for completion of the Fire Management Services 1 and 2 courses for high school credit.

**Emergency and Fire Management Services 1 (LTC)** **651201CD**  
**Grades 11, 10** **2 Units**

This course provides the basic skills necessary to get personnel operational and performing on the fire ground. Topics include the following: orientation to the fire service; safety; fire department communications; fire behavior; fire prevention and public fire education; protective clothing; building search and victim removal; ropes and knots; building construction; forcible entry and forcible entry construction techniques; ground ladders; ventilation; hose practices, water supply, and fire streams; Classes A, B, C, and D fire identification and classification; vehicle and wild land fire control; portable extinguishers and sprinkler system fundamentals; and salvage, overhaul and protecting evidence of fire cause. Successful completion of written and performance testing is required.

**Emergency and Fire Management Services 2 (LTC)** **651300CD**  
**Grades 12, 11** **2 Units**

**Prerequisite:** Emergency and Fire Management Services 1

This course provides students with the knowledge and skills to meet the National Firefighter Standards. Topics include the following: radio communications and incident reports, pre-incident surveys, rescues and extrication tools, vehicle extrication and special rescues, hydrant flow and operability, hose tools and appliances, foam fire streams, fire detection, alarm and suppression systems, construction materials and building collapse, and fire cause and origin. The course introduces the Emergency Medical Services System and implementation of proper safety and infection control measures. Successful completion of written and performance testing is required to meet national firefighting certification.

**Law Enforcement 1 (Protective Services) (LTC)** **651001CD**  
**Grades 11, 10** **2 units**

This course includes an overview of the functions and history of law enforcement with emphasis on current laws that police officers must enforce. The study also includes the responsibilities of agencies involved in the administration of justice to include police organizations, court systems, correctional systems and juvenile justice agencies.

**Law Enforcement 2 (Protective Services) (LTC)** **651101CD**  
**Grades 12, 11** **2 units**

**Prerequisite:** Law Enforcement 1

This course enables students to experience academic and practical skills needed in the area of law enforcement. Units of study include crime scene investigation, self-defense tactics and DUI recognition.

**JROTC**

**Aerospace Science (GHS, LHS)**

**Grades 9–12** **1 unit each semester**

**Aerospace 1—375100CW**

**Prerequisite:** Meet medical and physical qualifications through a health-risk assessment and pre-sports medical physical. They must be capable of performing the President's Physical Fitness Program. Cadets are required to wear their uniform once a week and must meet proper Air Force grooming standards. Participation in designated AFJROTC Unit activities is mandatory. AFJROTC cadets and parents are financially accountable for failing to return government issued uniform items.

**Aerospace Leadership Seminar Honors—375413HW**

**Prerequisite: Aerospace Honors:** May only be taken once after satisfactory completion of three Aerospace units; Senior AS Instructor recommendation.

The following curriculum is rotated on a yearly basis:

**A Journey Into Aviation History:** This course focuses on the development of flight throughout the centuries. The emphasis is on civilian and military contributions to aviation, the development, modernization, and transformation of the Air Force. Major emphasis is placed on basic drill and ceremony, customs, and courtesies used by USAF military members. Included in the leadership education phase are wellness and the President's Physical Fitness Program, Air Force tradition, character, and citizenship. Students are placed in positions of responsibility that directly contribute to the running of their Cadet Corps. Cadets are required to wear their uniform once a week and must meet proper Air Force grooming standards.

**Science of Flight:** This course is designed to acquaint the student with the aerospace environment, the human requirements of flight, and principles of navigation. Major emphasis is placed on basic drill and ceremony, customs and courtesies used by USAF military members. Included in the Leadership Education phase are wellness and the President's Fitness Program, communication skills, personal awareness, and behaviors for becoming a capable and competent leader. Students are placed in positions of responsibility that directly contribute to the running of their Cadet Corps. Cadets are required to wear their uniform once a week and must meet proper Air Force grooming standards.

**Survival:** This course provides training in skills, knowledge, and attitudes necessary to successfully perform fundamental tasks needed for survival. Major emphasis is placed on basic drill and ceremony, customs and courtesies used by USAF

military members. Included in the Leadership Education phase are wellness and the President's Fitness Program, life skills, financial planning, and career opportunities. Students are placed in positions of responsibility that directly contribute to the running of their Cadet Corps. Cadets are required to wear their uniform once a week and must meet proper Air Force grooming standards.

**Cultural Studies:** An Introduction to Global Awareness: This course introduces students to the world's cultures through the study of world affairs, regional studies, and cultural awareness. The course delves into history, geography, religions, languages, culture, political systems, economics, social issues, environmental concerns, and human rights. Included in the Leadership Education phase are wellness the President's Fitness Program, fundamentals of management, skills involved in planning and decision making, importance of the communication process, and the characteristics of a good leader. Students are placed in positions of responsibility that directly contribute to the running of their Cadet Corps. Cadets are required to wear their uniform once a week and must meet proper Air Force grooming standards.

**Leadership Seminar:** This course is only offered once a year in the spring for AS 5-8 students. The students must be recommended by the Senior Aerospace Science Instructor and must possess the qualities needed to serve in leadership positions within the corps. The course provides an in-depth study of the Air Force Officer Accession and Training Manual, Kenneth Blanchard Situational Leadership model, and guided discussions and case studies based on the movies Twelve O'clock High and The Great Raid. Included in the Leadership Education phase are wellness and physical fitness. Students are placed in positions of responsibility that directly contribute to the running of their Cadet Corps. Cadets are required to wear their uniform once a week and must meet proper Air Force grooming standards.

**Naval Science 1** **375102CW**  
(WKHS)  
**Grades 9–12** **1 unit**

**Prerequisites:** All prospective cadets and parents/guardians must interview with the Senior Naval Science Instructor to be accepted into the Program. Students must meet medical and physical qualification through a health-risk assessment and pre-sports physical. They must be capable of performing physical fitness exercises that include push-ups, curl-ups, and training for 1.5 mile run. Cadets learn to drill with rifles. Cadets wear an issued uniform once a week and must meet proper uniform and grooming standards. There are graded personnel inspections. All non-NJROTC cadet transfers are assigned to Naval Science 1.

Participation in designated NJROTC Unit activities is mandatory. Naval Science 1 promotes patriotism, self-discipline, leadership, and basic government principles. Military drill and physical fitness training are an integrated part of learning teamwork. NJROTC physical education gear is also issued and mandated for wear. NJROTC cadets and parents are financially accountable for government issued uniforms and PT gear.

**Naval Science 2** **375202CW**  
(WKHS)  
**Grades 10–12** **1 unit**

**Prerequisites:** Same as Naval Science 1, successful completion of Naval Science 1, Naval Science instructor recommendation

Naval Science 2 is designed to enhance the lessons learned in Naval Science 1. The course focuses on leadership, naval orientation, citizenship, Navy history, shipboard organization, naval weapons, meteorology, navigation and small-boat seamanship. Drill, team leadership and physical fitness training are included.

**Naval Science 3** **375302CW**  
(WKHS)  
**Grades 11, 12** **1 unit**

**Prerequisites:** Same as Naval Science 1, completion of Naval Science 2 with a 3.0 or better, Naval Science instructor recommendation.

Naval Science 3 further enhances lessons learned in Naval Science 1 and Naval Science 2. More emphasis is placed on leadership and developing teamwork. New material covered includes sea power, military justice, astronomy, naval operations, international law and the maneuvering board. Drill, leadership and physical fitness training are also included.

**Naval Science 4 Honors** **375400HW**  
(WKHS)  
**Grade 12** **1 unit**

**Prerequisites:** Same as Naval Science 1, completion of Naval Science 3 with a 3.0 or better, Naval Science instructor recommendation.

Naval Science 4 is designed to build on the follower-ship and leadership lessons learned in Naval Science 1, 2 and 3. A more in-depth look at what leadership and responsibility are and how to enhance those skills is presented. The cadets in this class are generally the Company Leadership Corps. Drill, leadership and physical fitness training are also included.

### **ARMY JROTC**

**Leadership, Education and** **375101CW**  
**Training 1 (PHS)**  
**Grades 9–12** **1 unit**

This course provides an introduction to the modern-day military and civilian army communities, and to the tasks and capability of its personnel and units. Major emphasis is placed on customs and courtesies used by U.S. Army military members. The curriculum covers citizenship, leadership communications, cadet challenge (physical training), leadership lab (marching), first aid, map reading and marksmanship. Students are placed in positions of responsibility that directly contribute to the running of the Cadet Company. Cadets wear uniforms once a week and meet proper Army grooming standards. The Army JROTC program sponsors a Cadet Color Guard, Drill Team and Rifle Team that represent the school and community at many functions throughout the year. These teams also compete with other schools for school pride and trophies. This course can be taken instead of the physical education unit required for a diploma or as an elective credit.

**Leadership, Education and** **375201CW**  
**Training 2 (PHS)**  
**Grades 10–12** **1 unit**

**Prerequisite:** Satisfactory completion of Leadership, Education and Training 1, recommendation of the Senior Army instructor

This course provides an opportunity to build on the skills that are learned in the first year of Army Junior ROTC. Leadership, Education and Training 2 provides more details about leadership situations so students are prepared for success both in and out of the classroom. Citizenship is still a major emphasis of the program. The curriculum includes subjects covering citizenship, leadership, communications, cadet challenge (physical training), leadership lab (marching), first aid, map reading and marksmanship. Students are placed in positions of increased responsibility that directly contribute to the running of the Cadet Company and training of other Cadets. Cadets wear their uniforms once a week and meet proper Army grooming standards. The Army JROTC program sponsors a Cadet Color Guard, Drill Team and Rifle Team



# APPENDIX A

## S.C. UNIFORM GRADING SCALE CONVERSIONS

Numerical Avg	Letter Grade	College Prep	Honors	Dual Credit AP/IB
100	A	4.875	5.375	5.875
99	A	4.750	5.250	5.750
98	A	4.625	5.125	5.625
97	A	4.500	5.000	5.500
96	A	4.375	4.875	5.375
95	A	4.250	4.750	5.250
94	A	4.125	4.625	5.125
93	A	4.000	4.500	5.000
92	B	3.875	4.375	4.875
91	B	3.750	4.250	4.750
90	B	3.625	4.125	4.625
89	B	3.500	4.000	4.500
88	B	3.375	3.875	4.375
87	B	3.250	3.750	4.250
86	B	3.125	3.625	4.125
85	B	3.000	3.500	4.000
84	C	2.875	3.375	3.875
83	C	2.750	3.250	3.750
82	C	2.625	3.125	3.625
81	C	2.500	3.000	3.500
80	C	2.375	2.875	3.375
79	C	2.250	2.750	3.250
78	C	2.125	2.625	3.125
77	C	2.000	2.500	3.000
76	D	1.875	2.375	2.875
75	D	1.750	2.250	2.750
74	D	1.625	2.125	2.625
73	D	1.500	2.000	2.500
72	D	1.375	1.875	2.375
71	D	1.250	1.750	2.250
70	D	1.125	1.625	2.125
69	F	1.000	1.500	2.000
68	F	0.875	1.375	1.875
67	F	0.750	1.250	1.750
66	F	0.625	1.125	1.625
65	F	0.500	1.000	1.500
64	F	0.375	0.875	1.375
63	F	0.250	0.750	1.250
62	F	0.125	0.625	1.125
0-61	F	0.000	0.000	0.000
61	FA	0.000	0.000	0.000
61	WF	0.000	0.000	0.000
--	WP	0.000	0.000	0.000

# APPENDIX B

## COLLEGE PLANNING CHECKLIST

When to begin	What to do	How to do it
Eighth grade	Select a high school course of study and a career cluster to explore and become familiar with college entrance requirements. Continue career exploration activities.	Work with parents, teachers and counselors to create an Individual Graduation Plan (IGP) to satisfy your career and educational goals. Get involved at school and in your community.
Freshman year	Update your IGP and work to your academic potential. Continue career exploration activities.	Continue to work with parents, teachers, and counselors to refine your IGP. Try job shadowing. Stay involved in school and community activities.
Sophomore year	Take PLAN and PSAT tests in the fall. Review results and modify IGP. Take academically challenging courses. Investigate summer enrichment programs.	Meet with your counselor to plan for college. Consider job shadowing. Check your guidance newsletters for summer opportunities and other valuable information.
Junior year Fall	Register to take the PSAT. Think about your reasons for going to college. Investigate possible career options and degree level required. Identify important factors in choosing a college.	Collect information from ED-OP DAY (Educational Opportunity Day). During ED-OP, students have the opportunity to talk with admissions counselors from South Carolina colleges and universities and some from out of state. Explore colleges and careers on SCOIS, DISCOVER and the Internet. Continue to focus on your schoolwork and to work with your parents, teachers and counselors.
Junior year Spring	Register for the SAT, ACT, COMPASS or ASSET. List colleges considering and collect information. Investigate summer enrichment programs. Continue to work to highest academic potential and to be involved in school and community activities.	Prepare for and visit colleges. Continue collecting college and career information. Enroll in summer activities. Take some time to volunteer.
Senior year Fall	Continue to take a full load of challenging courses. Compare the colleges on your list. Apply to your "choice" colleges. Register for the SAT, ACT, COMPASS or ASSET. Search for scholarship opportunities.	Participate in ED-OP Day and Financial Aid Night. Continue visiting colleges. Complete applications by early October. Check guidance newsletters for scholarship opportunities. Complete scholarship applications. Observe deadlines. Work closely with your counselor, parents and teachers to finalize your plans.
Senior year Spring	Apply for financial aid in January or February. Continue to search for scholarship opportunities. Make your final college decision. Register for college housing.	Complete the Federal Application for Student Financial Aid (FASFA) after January 1. Complete scholarship applications. Complete final paperwork for college of choice.

# APPENDIX C

## NCAA CORE GPA/TEST SCORE INDEX FOR 16 CORE COURSES

Core GPA	SAT	ACT (sum of scores)
3.550 and above	400	37
3.525	410	38
3.500	420	39
3.475	430	40
3.450	440	41
3.425	450	41
3.400	460	42
3.375	470	42
3.350	480	43
3.325	490	44
3.300	500	44
3.275	510	45
3.250	520	46
3.225	530	46
3.200	540	47
3.175	550	47
3.150	560	48
3.125	570	49
3.100	580	49
3.075	590	50
3.050	600	50
3.025	610	51
3.000	620	52
2.975	630	52
2.950	640	53
2.925	650	53
2.900	660	54
2.875	670	55
2.850	680	56
2.825	690	56
2.800	700	57

Core GPA	SAT	ACT (sum of scores)
2.775	710	58
2.750	720	59
2.725	730	59
2.700	730	60
2.675	740-750	61
2.650	760	62
2.625	770	63
2.600	780	64
2.575	790	65
2.550	800	66
2.525	810	67
2.500	820	68
2.475	830	69
2.450	840-850	70
2.425	860	70
2.400	860	71
2.375	870	72
2.350	880	73
2.325	890	74
2.300	900	75
2.275	910	76
2.250	920	77
2.225	930	78
2.200	940	79
2.175	950	80
2.150	960	80
2.125	960	81
2.100	970	82
2.075	980	83
2.050	990	84
2.025	1000	85
2.000	1010	86