SCOTLANDVILLE Magnet High School

HOME OF THE CHAMPIONS

2021-2022 Course Catalog

9870 Scotland Avenue
Baton Rouge, LA 70807
**INTRODUCTION**

The information in this brochure is important to both you and your parents. In order for Scotlandville Magnet High School to provide you with the best possible education, you must take the responsibility of choosing subjects that will help you achieve your goals.

This guide will provide you with graduation requirements, scheduling requirements, course summaries and other important information.

We strongly advise all students to seek the counsel of their parents and their SMHS counselor and teachers before selecting courses for the coming year. Upperclassmen should be particularly careful that all graduation requirements are being met. Students in all grades are required to schedule eight classes (six of these must be academic subjects for grades 9-11 and at least four must be academic subjects for grade 12).

All honors (H), dual enrollment (Dual), and advanced placement (AP) courses carry one extra quality point for students who earn grades of "C" or above. Those extra points are used to determine a student's grade point average. **We strongly recommend that 9th grade students allow for adjustment to high school by scheduling no more than two honors classes for their first year. To be considered for honors, advanced, and/or upper level classes, ninth grade students must provide SMHS documentation of readiness or eligibility.**

**COUNSELING**

A counselor is assigned to students at Scotlandville Magnet High School to help them during their high school career. A student may schedule a conference with a counselor for any number of reasons: scheduling, career counseling, college and scholarship consulting, testing, written recommendations and references, and personal problems. Strict confidentiality is maintained except when there is imminent personal danger or threat to others.

Counselors are always available for consultation and guidance BUT THE FINAL RESPONSIBILITY FOR MEETING GRADUATION REQUIREMENTS RESTS WITH THE STUDENT AND PARENTS.

**THE STATE BOARD OF ELEMENTARY AND SECONDARY EDUCATION**

**(SBSE) GRADUATION LEAP 2025 EXAM POLICY STATES:**

In addition to completing a minimum of 24 Carnegie Units of credit, students must meet assessment requirements below to earn a diploma:

Students must pass three LEAP 2025 Tests in the following categories:

- Algebra I or Geometry
- English I, English II
- Biology or American History

**TOPS**

Louisiana Tuition Opportunity Programs for Students is a comprehensive program of state scholarships and assistance programs. Specific courses, grade point averages, and other eligibility requirements are necessary for this program.

**TOPS CORE CURRICULUM FOR THE OPPORTUNITY, PERFORMANCE AND HONORS AWARDS FOR STUDENTS GRADUATING 2018 AND THEREAFTER**

**ENGLISH = 4 Units**

English I, II and 1 Unit from the following: English III, AP English Language Arts and Composition, or IB English III (Language A or Literature and Performance)

1 Unit from the following: English IV, AP English Language and Literature, or IB English IV (Language A or Literature and Performance)

**MATH = 4 Units**

Algebra I, Geometry, Algebra II

(Integrated Mathematics I, Integrated Mathematics II, and Integrated Mathematics III may be substituted for the Algebra I, Geometry, and Algebra II sequence)

1 Unit from the following:

Algebra III; Advanced Math - Functions and Statistics, Advanced Math - Pre-Calculus, Pre-Calculus, or IB Math Methods I (Mathematical Studies SL); Calculus, AP Calculus AB, or IB Math Methods II (Mathematics SL); AP Calculus BC; Probability and Statistics or AP Statistics; IB Further Mathematics HL; IB Mathematics HL

**SCIENCE = 4 Units**

Biology I, Chemistry, and 2 Units from the following:

Earth Science; Environmental Science; Physical Science; Agriscience I and Agriscience II (one unit combined); Chemistry II, AP Chemistry, or IB Chemistry II; AP Environmental Science or IB Environmental Systems; Physics I, AP Physics B, or IB Physics I; AP Physics C: Electricity and Magnetism, AP Physics C: Mechanics, or IB Physics II; AP Physics I and AP Physics II; Biology II, AP Biology, or IB Biology II

**SOCIAL STUDIES = 4 Units**

1 Unit from the following: U.S. History, AP U.S. History, or IB U.S. History

½ Unit from the following: Government, AP U.S. Government and Politics: Comparative, or AP U.S. Government and Politics: United States

½ Unit from the following: Economics, AP Macroeconomics, or AP Microeconomics (one unit of Civics may be substituted for the two ½ Units above)

**ART = 1 Unit**

1 Unit from the following:

Performance course in Music, Dance or Theatre; Fine Arts Survey; Art I, II, III, and IV; Talented Art I, II, III, and IV; Talented Music I, II, III and IV; Talented Theater Arts I, II, III, and IV; Speech III and Speech IV (one unit combined); AP Art History; AP Studio Art: 2-D Design; AP Studio Art: 3-D Design; AP Studio Art: Drawing; AP Music Theory; IB Film Study I; IB Film Study II; IB Music I; IB Music II; IB Art Design III; IB Art Design IV; or IB Theatre I

**Health/Physical Education= 2 Units**

1 Unit from PE I

½ Unit from PE II or ROTC

½ Unit from Health

**ELECTIVES = 3 Units**

**TOTAL UNITS= 24**

**JUMP START GRADUATION REQUIREMENTS**

(SEE APPENDIX I)

**ACT**

Scores from the ACT test are used by most colleges and universities as part of entrance and scholarship requirements. Some accommodations may be available to students with special needs—see ACT guidelines. All juniors and seniors take the ACT in the spring.

**INDIVIDUAL GRADUATION PLAN**

Beginning in the 1998-1999 school year, by the end of the eighth grade, each student shall develop, with the input of his/her family, an Individual Graduation Plan. Such a plan shall include a sequence of courses which is consistent with the student’s stated goals for their four years in high school and one year after graduation. Each student’s Five Year Educational Plan shall be reviewed annually by the student, parent, and counselor and revised as needed.

**GRADE CLASSIFICATIONS**

Freshmen 9th Grade Earned 0-4.5 Credits
Scheduling: Selection and Changes

During the spring semester, students select their courses for the upcoming school year with the help of their individual counselors. This schedule of classes is sent home for parent approval and signature and returned to the school. During the late spring, students are scheduled into classes.

Selection of teachers is not permitted at any time. Classes may be changed by the principal or designee in order to balance or to change a student who has previously passed a course or to meet graduation or college entrance requirements.

SMHS Grading Scale

<table>
<thead>
<tr>
<th>GPA</th>
<th>Grade</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>A-1</td>
<td>93-100%</td>
<td></td>
</tr>
<tr>
<td>B-3</td>
<td>85-92%</td>
<td></td>
</tr>
<tr>
<td>C-2</td>
<td>75-84%</td>
<td></td>
</tr>
<tr>
<td>D-1</td>
<td>67-74%</td>
<td></td>
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<tr>
<td>F-0</td>
<td>0-66%</td>
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</tbody>
</table>

Advanced Placement Courses

AP Courses are rigorous courses to give high school students the opportunity to experience college course material with the potential to earn college credit while still in high school. Students should be college bound with a good work ethic. Students are expected to take the AP Exam at the end of the course. Fees are subject to those placed on by College Board, the AP Exam provider. Honors requirements and teacher recommendations are required.

For more information about AP: testing samples, scoring of exams, fees, and reduced fee opportunities please refer to: http://www.collegeboard.org/

Dual Enrollment Courses

Dual enrollment programs are available at BRCC, SELU, and Southern University.

Students enrolled in any Dual Enrollment Program will receive college credit and high school honors credit for the course(s) taken.

Honors Courses

Courses listed as honors will be graded on the SMHS Grading Scale listed above. Honors courses will be identified on transcripts with an honors behind the course title.

Course Offerings

Note that course offerings, content, requirements, and fees are subject to change as stipulated by the state and/or parish. AP courses substitute where state codes align.

English

All Students are required to take an English course each year of high school. All English I and English II students are required to participate in the accelerated reader program. Vocabulary study, with emphasis on ACT/SAT preparation, will be an integral part of all English courses. LEAP 2025 tests will be administered for English II.

ENGLISH I

<table>
<thead>
<tr>
<th>Grade</th>
<th>Fee</th>
<th>Course Description</th>
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<tbody>
<tr>
<td>9</td>
<td>$5</td>
<td>This course will review basic grammar and note taking skills from previous grades and provide opportunities for oral and written communication. The basic types of paragraphs will be taught, along with methods of development. These will be combined into short themes. The literature will focus on selected world literature, with emphasis on the theme of coming of age as depicted in short stories, the novel, media, poetry, and Shakespeare.</td>
</tr>
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ENGLISH II

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<tbody>
<tr>
<td>10</td>
<td>$5</td>
<td>This course will emphasize refinement of those grammar skills essential to advanced writing. Increased practice will be provided in writing short themes using standard methods of development. Library skills leading to a research paper will be taught. The literature will focus on selected world literature, with emphasis on the study of culture as depicted in the novel, poetry, drama, short stories, and media. Coursework is rigorous and relevant in preparation for LEAP 2025 testing.</td>
</tr>
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ENGLISH III

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<tbody>
<tr>
<td>11</td>
<td>$5</td>
<td>This course provides an overview of dominant ideas and styles of major American writers, focusing on regional development with added emphasis on genres and movements particular to America. The writing emphasis is on the four major methods of discourse and the process of writing a fully documented research paper. Coursework is rigorous and relevant in preparation for LEAP 2025 testing.</td>
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ENGLISH IV

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<tr>
<td>12</td>
<td>$5</td>
<td>This course covers the same material as English III with additional readings, projects, and assignments in preparation for honors and dual enrollment courses.</td>
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HONORS English I

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<tr>
<td>9</td>
<td>9 prerequisites: Honors requirements</td>
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<td>In addition to the basic grammar and the major literary genres, this course will emphasize descriptive, persuasive, and expository essays, as well as a full-length research paper. Required reading will include 3-5 novels and at least one play from Shakespeare. This course moves at a much faster pace, covers material in greater depth, and demands a stronger work ethic than regular English I.</td>
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<td>10</td>
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<td>In addition to the material covered in regular English II, this course will include at least one Shakespearean play and 3-5 independently-read novels. The research and documentation process will be covered, culminating in a persuasive paper. This course is designed to move more rapidly and to cover the material in more depth than the regular English II course. Coursework is rigorous and relevant in preparation for LEAP 2025 testing.</td>
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<td>This course covers the same material as English III with additional readings, projects, and assignments in preparation for honors and dual enrollment courses.</td>
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Students will read and write about literature and other essays. They will practice writing expository papers including the argument, the critical essay, the research paper, and the essay examination. They will learn techniques such as the use of primary and secondary sources, basic documentation skills, recognition of various documentation formats including MLA and APA, the ability to use research in writing, and knowledge of primary, field, and electronic research procedures. Students will develop an ability to write for various audiences and purposes (including timed, in-class writing). Students will develop productive planning and revising processes for various papers, including those requiring research. Finally, students will review punctuation, mechanics, grammar, and sentence structure within the context of their writing.

**BUSINESS ENGLISH**

Grade: 12
Fee: $5

This course will provide students with the communication skills needed in a business environment. Important note: This course may be a substitution for English IV; however, LSU, SLU and many other colleges do not accept Business English in place of English IV for admission. Also, Business English cannot be used to fulfill regular TOPS requirements for English. It can only be used to satisfy JumpStart English requirements.

**TECHNICAL WRITING**

Grade: 12
Fee: $5

Provides instruction in the rhetorical principles and strategies of technical reading and writing. The course will emphasize reports and manuals, which may include progress and process reports, feasibility studies, instructions, procedures, and/or mechanism descriptions.

**PUBLICATIONS I (YEARBOOK)**

Grade: 11
Prerequisite: English teacher recommendation and student application.

This course focuses on the skills of magazine journalism. Class members will serve as the staff of The Edifice and will provide comprehensive coverage of personalities and events of SMHS for the year. Layout, photography, design, copywriting, and proofreading are some of the activities. Juniors accepted are expected to enroll in Publications II the following year to serve as editors. Ad sales are a grade requirement.

**PUBLICATIONS II (YEARBOOK)**

Grade: 12
Prerequisite: Successful completion of Publications I, teacher recommendation

Student must meet the same requirements as Publications I.

**MATHEMATICS**

**NOTE: ALL STUDENTS ARE REQUIRED TO TAKE A MATHEMATICS COURSE EACH YEAR OF HIGH SCHOOL. MOST MATHEMATICS COURSES USE GRAPHING CALCULATORS TO REINFORCE CONCEPTS. (TI 83+ CALCULATORS ARE RECOMMENDED)**

**ALGEBRA I**

Grade: 9
Fee: $5

This is an entry level course that bridges the gap between the concrete ideas of mathematics and the abstract thinking of algebra. Students will explore data, the patterns formed by data, and the mathematical relations and functions that data represent. Topics studied include variables; operations and properties of real numbers; equivalent expressions and equations; solving and graphing linear equations and inequalities; factoring and solving quadratic equations; radicals; exponential equations; and probability. Special emphasis is placed on developing an understanding of functions through real-world application. Coursework is rigorous and relevant in preparation for LEAP 2025 testing.

**HONORS ALGEBRA I**

Grade: 9

Prerequisite: Honors requirements, SMHS placement test scores and recommendation of the SMHS Math Department

Fee: $5

This course is designed for the highly motivated math student and consists of a more detailed study of the topics covered in Algebra I regular. The pace and some independent study projects also distinguish this course from Algebra I course. Coursework is based on teacher recommendation. Coursework is rigorous and relevant in preparation for LEAP 2025 testing.

**ALGEBRA I COE**

Grade: 9

Fee: $5

This course covers the same material as Algebra I with additional projects and assignments geared towards the field of engineering.

**ALGEBRA I Eng H**

Grade: 9

Fee: $5

This course covers the same material as Algebra I with additional projects and assignments geared towards the field of engineering.

**GEOMETRY**

Grade: 9-10
Prerequisite: Successful completion of Algebra I

Fee: $5

This course focuses on the study of visual patterns and the use of geometry to describe the physical universe, to represent mathematical concepts, and to teach problem solving skills. Students utilize inductive reasoning to discover patterns and make conjectures; and employ deductive reasoning to confirm conjectures through proof. Topics include measurement formulas, geometric and spatial visualization; drawing skills; properties of congruence, similarity, parallelism, and perpendicularity; different methods of proof; properties of plane and solid figures; and transformations. Geometry provides a foundation for students that are used throughout high school mathematics. TI-89 calculators are NOT allowed.

**HONORS GEOMETRY**

Grade: 9-10
Prerequisites: Successful completion of Algebra I and honors requirements

Fee: $5

This is a discovery course designed for students who are not challenged in the traditional style math class, who have a strong Algebra background, and who are self-motivated. Students, working in groups, will use investigative activities to discover geometrical concepts. Inductive reasoning skills, deductive reasoning skills, and problem-solving skills are stressed. All topics listed in the above Geometry course are studied in more detail with additional enrichment units and more individual and group projects. TI-89 calculators are NOT allowed.

**ALGEBRA II**

Grade: 10-11
Prerequisites: Successful completion of Algebra I and Geometry

Fee: $5

This course focuses on sharpening the understanding of concepts introduced in Algebra I and Geometry and extending the use of functions as models for real-world situations. Students explore algebraic expressions and forms, especially linear and quadratic forms, powers and roots, absolute value, and functions and graphs based on these concepts. Topics include logarithmic, exponential, and polynomial functions, and matrices. Algebraic and geometric topics are connected to topics in statistics, probability, science and engineering, and discrete mathematics. TI-83 or TI-84 calculator is required. TI-89 calculators are NOT allowed.

**HONORS ALGEBRA II**

Grades: 10-11
Prerequisites: Successful completion of Algebra I and honors requirements

Fee: $5

This course, designed for the highly motivated math student, consists of a more detailed study of the topics in Algebra II with additional topics such as complex numbers, sequences and series, probability and statistics and trigonometry. The honors course is faster paced and requires independent study. . TI-83 or TI-84 calculator is required. TI-89 calculators are NOT allowed.

**ALGEBRA II COE**

Grade: 9-10
Fee: $5

This course covers the same material as Algebra II with additional projects and assignments geared towards the field of engineering.

**ALGEBRA II Eng H**

Grade: 9-10
Fee: $5

This course covers the same material as Algebra II with additional projects and assignments geared towards the field of engineering.

**ADVANCED MATH/PRE-CALCULUS**

Grade: 11-12
Prerequisite: Successful completion of Algebra II

Fee: $5

This is a college preparatory course that focuses on triangular and circular trigonometry and pre-calculus. It further explores functions and their graphs through mathematical modeling, simulations, and real-world applications. Additional topics include: analytic geometry, conics, logarithms, the Number $e$, combinatorics and probability, derivatives, and the use of graphing calculators. . TI-83 or TI-84 calculator is required. TI-89 calculators are NOT allowed.

**HONORS ADVANCED MATH/PRE-CALCULUS**

Grades: 11-12
Prerequisite: Successful completion of Geometry Honors and Algebra II Honors, and honors requirements

Fee: $5

This is a college preparatory course designed for the highly motivated math student. It consists of a more detailed and enriched study of the topics in Algebra with an added emphasis on systems of equations, matrices, sequences and series, probability, statistics, and an introduction to calculus – limits, tangent line problem, and the area under a curve problem. The honors course is faster paced and requires independent study. TI-83 or TI-84 calculator is required. TI-89 calculators are NOT allowed.

**ADVANCED MATH/PRE-CALCULUS Eng H**

Grades: 11-12
Prerequisite: Successful completion of Advanced Math I

Fee: $5

This course covers the same material as Advanced Math/Pre-Calculus with additional projects and assignments geared towards the field of engineering.

**CALCULUS**

Grades: 11-12
Prerequisite: Successful completion of Advanced Math

Fee: $5

This is a calculus course for students not taking the Calculus AP exam. It includes the study of limits, derivatives, integral, and their applications in the real-world, as well as an in-depth review of topics for the ACT and SAT. Interpreting and analyzing data from a graphing calculator is also a part of this course. TI-83 or TI-84 calculator is strongly recommended. TI-89 calculators are NOT allowed.

**COLLEGE ALGEBRA 135 Dual Enrollment**

Fee: $5

This course covers the same material as College Algebra with additional projects and assignments geared towards the field of engineering.
This course will explore the real-number system; arithmetic operations with polynomials, special products and factoring; linear, fractional and quadratic equations; inequalities, exponents, radicals and absolute values; functions and graphs; and complex numbers, logarithms, logarithmic and exponential functions.

**COLLEGE ALGEBRA 140 Dual Enrollment**

Fee: $5  
This course will explore exponential, logarithmic, and trigonometric equations and functions; trigonometric identities; right angle trigonometry; Laws of Sines and Cosines; and DeMoivre's Theorem.

**MATH ESSENTIALS**  
Grades – 11/12  
Fee: $5  
Math Essentials is a course developed with the intent of increasing ACT scores. The course utilizes graphing calculators and applications in a variety of real-life settings to provide relevance to the students.  
**PREREQUISITE:** Algebra I and Geometry

**FINANCIAL LITERACY**  
Grades – 11/12  
Fee: $5  
This course is designed to focus on mathematical concepts and applications needed for the design and management of personal and business finances. Financial Mathematics serves as a foundation for ALL students to learn to make mathematically sound decisions in their roles as consumers, employees, and/or entrepreneurs. This course extends students' knowledge of whole numbers, fractions, decimals, and percentages as well as basic statistics, and probability, algebra, geometry, and data analysis in the context of relevant real life problem-solving situations. Emphasis is placed on various mathematical processes which include manual or electronic calculations of payroll, income tax preparations, interest computations, consumer information, managing income, purchasing of insurance, selling and buying, making sound credit and investment decisions and other items that may be related to personal and business transactions.

**SOCIAL STUDIES**

**WORLD GEOGRAPHY**  
Grades: 9  
Fee: $5  
World Geography offers a study of the Earth’s natural environment such as its continents and oceans, rivers and lakes, mountains and plains, soils and weather. Also world geography offers a study about the Earth's human environment such as its population and resources, nations and cities, migration and transportation, and ways of making a living. This course will develop an understanding of the total environment of the world, both physical and cultural geography, and the impact of human environment interaction on our planet.

**HONORS WORLD GEOGRAPHY**  
Grades: 9  
Fee: $5  
This course covers the same material as World Geography but involves a more in-depth study, at a more intense pace. It also requires additional projects and presentations.

**WORLD GEOGRAPHY COE**  
Grades: 9  
Fee: $5  
This course covers the same material as World Geography with additional projects and assignments in preparation for honors and dual enrollment courses.

**CIVICS**  
Grades: 10  
Fee: $5  
Civics is the study of the practical, everyday aspects of our governmental structure and functions at all levels, local, state, and national, including the impact on government of current developments at home and abroad. Major emphasis is on the role of the citizen in our American democracy, to include duties and responsibilities as well as rights. Coursework also explores our place in an international community during this era of globalization. Studies of our Free Enterprise economic system are incorporated into the course.

**HONORS CIVICS**  
Grade: 10  
Fee: $5  
Prerequisite: An A or B in World Geography and a teacher recommendation.  
This course covers the same material as Civics but involves a more in-depth study, at a more intense pace. It also requires additional readings, projects, and presentations.

**UNITED STATES HISTORY**  
Grade: 11  
Fee: $5  
United States History offers a study of the history of our nation from the Industrial Revolution until the present. Through content reading, independent research, and collaborative projects, students explore the American culture through a chronological survey of major issues, movements, people, and events in the United States. Content reading is a critical component of coursework in preparation for the ACT. Coursework is rigorous and relevant in preparation for LEAP 2025 testing.

**HONORS UNITED STATES HISTORY**  
Grade: 11  
Fee: $5  
Prerequisites: A or B in all other Social Studies and teacher recommendation.  
Honors United States History offers the same curriculum as the regular course but involves a more in-depth study, at a more intense pace. It also requires additional readings, projects, and presentations.

**UNITED STATES HISTORY COE**  
Grade: 11  
Fee: $5  
This course covers the same material as United States History with additional projects and assignments in preparation for honors and dual enrollment courses.

**AP U.S. HISTORY**  
Grade: 11  
Fee: $5  
Prerequisites: Recommendation from English and Social Studies teachers.  
AP U.S. History is a challenging course that is meant to be equivalent of a freshman college course, and students may be eligible for college credit if they make a qualifying score on the AP exam. It is a two semester survey of United States History from the age of exploration and discovery to the present. Solid reading skills, along with a willingness to devote considerable time to homework and independent study are necessary to succeed. Emphasis is placed on critical and evaluating thinking skills, essay writing, interpretation of original documents, and historiography.

**WORLD HISTORY**  
Grade: 12  
Fee: $5  
This one year course examines societal development from the medieval period in Europe to the present with an emphasis on emerging ideologies, expansion of empires, growth of nations, and an increase of global interdependence. Students develop an understanding of current world issues and relate them to their geographical, political, economic, and cultural contexts.

**HONORS WORLD HISTORY**  
Grade: 11  
Prerequisites: A or B in all other Social Studies and teacher recommendation.  
Fee: $5  
Honors World History offers the same curriculum as the regular course but involves a more in-depth study, at a more intense pace. It also requires additional readings, projects, and presentations.

**WORLD CIVILIZATION (DUAL ENROLLMENT)**  
Grade: 12  
Fee: $5  
Students receive 1 credit for high school each semester and 3 hours of college credit each semester. Students enrolled in this course must complete an application for Baton Rouge Community College.

**LAW STUDIES**  
Grades: 9  
Fee: $5  
This course is designed to introduce students to civil and criminal law. Heavy concentration is placed on studying the Constitution. During the second semester students concentrate on civil laws. Students participate in mock trial presentations and develop knowledge and understanding in the nature and institutions of domestic law.

**AMERICAN GOVERNMENT AND POLITICS:**  
Grades: 11/12  
Fee: $5  
Prerequisites: A or B in all other Social Studies and teacher recommendation.  
United States Government and Politics will give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. It requires familiarity with various institutions, groups, beliefs, and ideas that constitute the U.S. government and politics. They will also be required to complete additional readings, projects, presentations, and writing assignments.

**AFRICAN-AMERICAN STUDIES**  
Grade: 12  
Fee: $5  
This course is structured to trace African American history from the African ways of life through the transformation of arriving in America and on to the present. This course is fast paced and very in depth. Supplemental reading and projects are required.

**PSYCHOLOGY**  
Grades: 12  
Fee: $5  
This course is a study of major trends in sociology and psychology, which requires in-depth interest and work of the student. The course studies human groups, the meaning of culture, reasons for cultural variations, organization of society, and problem areas in contemporary society. Brain functions, basic principles of behavior, psychological influences, and characteristics of mental illness are discussed. Various instructional methods and participatory activities will be used to develop student understanding of personality, motivation and emotion, learning and memory, abnormal psychology and psychological treatment methods.
SCIENCE

EARTH SCIENCE  710556
Grade: 9
Fee: $5
This Earth science course is designed to interpret and understand the world around you. In order to do so, students will investigate and study the interactions between the four major Earth's spheres, including the geosphere, atmosphere, hydrosphere and biosphere in order to explain Earth's formation, processes, history, landscapes, how and why Earth changes over time. The course will also explore how current actions of man interact and affect Earth's spheres leading to local and global changes. Topics to be addressed include, but are not limited to, the scientific method, mapping Earth's surface, minerals, rocks, plate tectonics, earthquakes, volcanoes, geologic time, and meteorology. Students will participate in laboratory exercises, small group activities, web based investigations, class discussions, projects, and research.

PHYSICAL SCIENCE  404000
Grade: 9
Fee: $10
This is an introductory science course, emphasizing the scientific method, introducing the students to various topics in chemistry and physics.

PHYSICAL SCIENCE (COE)  404080
Grade: 9
Fee: $10
This course covers the same material as Physical Science with additional projects and assignments in preparation for honors and dual enrollment courses.

PHYSICAL SCIENCE (H)  404100
Grade: 9
Fee: $10
It covers the same concepts as in regular Physical Science but with more emphasis on the theoretical and mathematical aspects. Advanced laboratory experiments are included and individual research and student will be emphasized.

PHYSICAL SCIENCE (ENG H)  404200
Grade: 9
Fee: $10
This course covers the same material as Physical Science with additional projects and assignments geared towards the field of engineering.

BIOLOGY I  411000
Grade: 10
Fee: $10
This class is a survey course of the fundamental principles of biology, including the study of life, cell structure, biochemistry, taxonomy, genetics, and possible changes of change, bacteria, fungi, plants, protists, animals, adaptations, human anatomy, and ecology. Coursework is rigorous and relevant in preparation for LEAP 2025 testing.

BIOLOGY I (COE)  411030
Grade: 10
Fee: $10
This course covers the same material as Biology I with additional projects and assignments in preparation for honors and dual enrollment courses.

HONORS BIOLOGY  411400
Grade: 10
Fee: $10
This course, designed for highly motivated science student, consists of a more detailed study of the topics in Biology I. Emphasis is on more difficult laboratory exercises, a science fair project, readings, individual research, and independent study. Coursework is rigorous and relevant in preparation for LEAP 2025 testing.

BIOLOGY I (ENG H)  404200
Grade: 10
Fee: $10
This course covers the same material as Biology with additional projects and assignments in preparation for honors and dual enrollment courses.

CHEMISTRY I  421000
Grades: 10-12
Prerequisites: Currently enrolled in Algebra II or successful completion of Algebra II.
Fee: $10
Students acquire an understanding of the fundamental principles of modern chemistry through classroom and laboratory work. Topics such as matter and its composition, the mole concept, atomic theory, bonding, chemical formulas and equations, and acids, bases and salts, are treated with varying degrees of mathematical involvement.

CHEMISTRY I (COE)  411030
Grade: 10-12
Fee: $10
This course covers the same material Chemistry I with additional projects and assignments in preparation for honors and dual enrollment courses.

HONORS CHEMISTRY  421100
Grades: 10-12
Prerequisites: Completion of Algebra I, Physical Science, Biology I, teacher recommendation and enrolled in Algebra II or successful completion of Algebra II.
Fee: $10
This course is designed primarily for highly motivated science students. It covers the same concepts as in regular chemistry but with more emphasis on the theoretical and mathematical aspects. Advanced laboratory experiments are included and individual research and student will be emphasized.

CHEMISTRY (ENG H)  404200
Grade: 9
Fee: $10
This course covers the same material as Chemistry with additional projects and assignments geared towards the field of engineering.

ENVIRONMENTAL SCIENCE  457000
Grades: 11-12
Prerequisites: Biology I and Chemistry I
Fee: $10
This course is designed to explore the mechanisms governing the structure and function of ecological systems and the relationship of such systems and the relationship of such systems to man. Topics for study include aquatic habitats, resource use, risk management, waste treatment and health issues. Emphasis is on library research and field work, when possible.

ENVIRONMENTAL SCIENCE (COE)  457020
Grade: 11-12
Fee: $10
This course covers the same material Environmental Science with additional projects and assignments in preparation for honors and dual enrollment courses.

ENVIRONMENTAL SCIENCE (H)  457110
Grade: 11-12
Fee: $10
This course is designed primarily for highly motivated science students. It covers the same concepts as in Environmental Science. Advanced laboratory experiments are included and individual research and student will be emphasized.

ENVIRONMENTAL SCIENCE (ENG H)  457112
Grade: 9
Fee: $10
This course covers the same material as Environmental Science with additional projects and assignments geared towards the field of engineering.

PHYSICS  431000
Grades: 11-12
Prerequisites: Successful completion of Advanced Math I or concurrent enrollment, and teacher recommendation.
Fee: $10
This course includes an introduction to mechanics (kinematics, dynamics, and conservation laws), fluids, heat, wave phenomena, optics, electricity and magnetism. Mathematical problem solving techniques and laboratory investigations are emphasized.

PHYSICS (ENG H)  457112
Grade: 11-12
Fee: $10
This course covers the same material as Environmental Science with additional projects and assignments geared towards the field of engineering.

FORENSIC SCIENCE  414200
Grade: 11-12
Fee: $10
This course allows students to participate in crime scene investigations including reviewing hair samples, fingerprints, and other clues to provide evidence for cases to be presented in court. After the crime scenes are investigated, law students build their cases for presentations in court.

WORLD LANGUAGES

FRENCH I  511000
Fee: $5
A beginning course designed to give students the experience of learning a second language and gaining an appreciation of the cultures and places in which French is spoken. Listening comprehension, speaking, reading, and writing are included in the course curriculum.

FRENCH II  512000
Prerequisite: It is highly recommended that a student who has earned below a C in French I, repeat French I before taking French II.
Fee: $5
This course is a continuation of French I with emphasis on conversations skills, reading, listening, and writing. Upon completion of this course, the student will have a basic command of elementary sentence patterns and grammatical structures.

FRENCH III  513000
Fee: $5
This course is a continuation of French II with emphasis on conversations skills, reading, listening, and writing. Upon completion of this course, the student will have a basic command of elementary sentence patterns and grammatical structures.

SPANISH I  561000
Fee: $5
A beginning course designed to give students the experience of learning a second language and gaining an appreciation of the cultures and places in which Spanish is spoken. Listening comprehension, speaking, reading, and writing are included in the course curriculum.

SPANISH II  562000
Prerequisite: Spanish I and SMHS placement test (9th grade) It is highly recommended that a student who has not made a C or above in Spanish I, should repeat Spanish I before taking Spanish II.
Fee: $5
This course continues the study of Spanish I with greater emphasis on idioms, vocabulary, and several tenses. Students begin to attempt sustained conversation and the reading of narratives.

SPANISH III  630000
Prerequisite: Spanish II and SMHS placement test (9th grade) It is highly recommended that a student who has not made a C or above in Spanish II, should repeat Spanish II before taking Spanish III.
Fee: $5
This course continues the study of Spanish II with greater emphasis on idioms, vocabulary, and several tenses. Students begin to attempt sustained conversation and the reading of narratives.
ELECTIVE COURSES

BUSINESS

INTRO TO BUS. COMP. APPLICATIONS 641900
Fee: $5
This course is designed to provide students with basic computer application skills. Students will be introduced, for a minimum of six weeks of the school year, to the touch method of operating a computer keyboard to produce simple business documents. Emphasis is placed on basic computer concepts both hardware and software, word processing and spreadsheet applications.

BUS. COMP. APPLICATIONS 642100
Fee: $5
This course is designed to acquaint students with the basic principles associated with information processing. Students study fundamental computer concepts, software applications, and computer systems. Emphasis is placed on skill development in using technology to perform basic information processing. Topics of study include computer concepts, word processing, spreadsheets, databases, and presentation software applications that will increase in difficulty in the second semester. The student will participate in job training for entry-level employment in computer information processing, and/or for advanced study at the post-secondary level. Communication skills, keyboarding, decision making, technology and critical thinking skills are reinforced in this course through business application projects, simulations, and teamwork.

PREREQUISITE: Introduction to Business Computer Applications

CTE INTERNSHIP I 643300
Career & Technical Education (CTE) Internship is a two credit, one hour per week course offered to seniors. The Internship provides work based activities where student work one-on-one with a business partner for an entire school year to obtain “hands on” learning about a particular occupation or industry. Students generally take 5 classes and leave school after their last class to go to their job. Students gain valuable work experience that may be either paid or nonpaid. An internship agreement is set up once the student has been accepted into the program. Emphasis is placed on skill development in information processing and decision-making. Oral and written communications and critical thinking skills are reinforced in this course as students perform their job.

ACCOUNTING I 634000
Grades 10-12
Fee: $5
This course designed to introduce students to basic theory and procedures along with current applications of computer technology in accounting. Emphasis is placed on the mastery of basic accounting concepts and procedures. Mathematical, critical thinking, problem solving, decision-making, technology, and team building skills are reinforced in this course.

ACCOUNTING II 635000
Grades 11-12
Prerequisite: Accounting I Fee: $5
This course designed to reinforce skills learned in basic accounting theory. Advanced instruction is given in journalizing, posting, preparation of payroll, taxes and business forecasting. Emphasis is placed on incorporation of an advanced accounting system. Mathematical, critical thinking, problem solving, decision-making, technology, and team building skills are reinforced in this course.

PRINCIPLES OF BUSINESS 647000
Fee: $5
This is an introductory course that provides students with basic business operations skill that can be applied in both personal and professional situations. Emphasis is placed on the exploration and description of basic business concepts and applications. Through business applications projects, critical-thinking, oral and written communication skills are reinforced in this course.

PRINCIPLES OF BUSINESS COE 647010
Fee: $5
This course covers the same material as Principles of Business with additional business applications projects, and critical-thinking, oral and written communication skills are reinforced.

ENTREPRENEURSHIP 744700
Fee: $5
This course introduces students to the rewards and risks of owning or operating a business enterprise. Emphasis is placed on the discovery of skills needed to plan, organize, manage, operate, and finance a business using current technology.

PRINCIPLES OF MARKETING 745000
Grade: 10
This course is paired with Health. Fee: $5
Principles of Marketing introduces the basic foundations and functions of marketing and entrepreneurship. Emphasis is placed knowledge, skills, and attitudes necessary for entering and advancing in the field of reinforced in this course through the application of marketing and entrepreneurial principles. Work-based learning strategies appropriate for this course include job shadowing, field trips and/or cooperative education. Business simulations, projects, teamwork, DECA leadership activities, conferences, and competitions provide opportunities for application of instructional competencies.

COMPUTER SCIENCE

COMPUTER SCIENCE I 334000
Grades: 9-12
Prerequisites: Successful completion of or currently enrolled in Geometry Fee: $5
This is a full year introduction to computer science and computer programming language Python. The course will introduce beginning students to computer programming using structured programming concepts and the top down design approach. Specific topics covered will include algorithmic development, numeric and string manipulation, file processing, and the use of subprograms, arrays, and list. Also the class will explore the creation and use of Windows-like Graphic User Interfaces and the use of computer graphics. No previous programming experience is needed.

COMPUTER SCIENCE II 334100
Grades: 9-12
Prerequisites: Successful completion of Computer Science I and enrolled or completed in Algebra I Fee: $5
This is a full year course in computer programming using the language C++. Topics covered will include structure programming methods, the C++ language, structured programming methodology, algorithm development using the top down approach, the design and use of functions, function overloading and recursive functions in programming. The course will also cover numeric and string processing, text files and file processing, and the creation and use of data structures such as arrays, structs, and linked list. Additionally, the class will cover an introduction to object oriented programming using classes to implement objects within programs. This course is designed for the student that has previous programming experience and wishes to continue to study computer science.

ENGINEERING

INTRO TO ENGINEERING DESIGN (IED) 724610
Fee: $5
This course introduces students to the engineering design process. They develop their engineering portfolio that will follow them through all the courses. Working students design circuits to solve open ended problems, communicate their ideas as well as the geometry that is used in parametric modeling, assembly, and motion constraints. They explore the production and marketing of products.

PRINCIPLES OF ENGINEERING (POE) 724620
Fee: $25
This course covers the different types of engineering, the communication and documentation that are used by engineers. Mechanisms, thermodynamics, fluid systems, electrical systems and control systems are also covered. Using the appropriate formulas students make static and strength calculations for various materials before testing them. They explore the fields of reliability engineering and kinematics.

DIGITAL ELECTRONICS (DE) 724630
Fee: $25
This course covers the fundamentals of analog and digital electronics. Students learn about the different number systems used in the design of digital circuitry. The students design circuits to solve open ended problems, assemble their solutions, and troubleshoot them as necessary. Simplification of Boolean expressions, application of truth tables, and K-mapping techniques are also covered. Students then use combination logic, integrated circuits, and microprocessors to solve open ended problems.

CIVIL ENGINEERING-ARCHITECTURE (CEA) 724650
Fee: $25
This course involves a long-term project that develops a local property site. As students learn the various aspects of civil engineering and architecture, they apply what they learn to the design and development of this property. It is structured to enable all students to have a set of hands-on experiences with the overview of field experiences. Students also work in teams, exploring hands-on projects and activities to learn the characteristics of civil engineering and architecture.

ENGINEERING DESIGN & DEVELOPMENT (EDD) 724670
Fee: $25
This course is the capstone research and development course. Students working as individuals or on teams draw from all their previous experiences in the other engineering courses. They select a problem, design a solution, conduct patent research, build a prototype, conduct testing of the prototype, evaluate the test results, and present their conclusions to an engineering panel. The project is a yearlong course that involves guided independent research by the teacher and engineering/industry mentors.

ROBOTICS 723050
Fee: $30
Robotics systems require student to engage with computers, sensors, the Internet, electrical mechanical actuators, and a plethora of evolving technologies. The course provides many opportunities for students to apply engineering design principles to solve complex problems that require them to consider trade-offs such as costs, safety, reliability, and aesthetics; Robotic programming language will be used to write code to control student built Vex robots to compete in robotic competitions across the state. Students that complete the course will have a chance to take an online certification test developed by Carnegie Mellon Robotics Academy.

CAREER ELECTIVES

BASIC CAREER READINESS 613600
Fee: $5
This is a career awareness/ exploration course designed to engage students in opportunities that will translate into: developing employability "soft" skills, exploring career pathways, and developing an awareness of the connection between education and their career choice. Through the career awareness/ exploration activities students will begin to connect academic success with short-term and long-term post-secondary goals. Students will also engage in personal finance activities, career research, and resume/portfolio development.
modern professionals to use in an ethical workplace culture. Throughout the course, students have opportunities to refine their personal sense of ethics as they begin to build an ethical foundation for their professional future.

**SPEECH AND THEATRE**

**INTRODUCTION TO PUBLIC SPEAKING (SPEECH I)**

Grades: 9-12
Fee: $5

This is a basic course designed to train students for specialized speaking situations including reports, orations, impromptu speaking, panel discussions and elementary debate. Students learn techniques for overcoming stage fright and improve their ability to compose and deliver speeches as well as listen critically to other students’ speeches.

**SEMINAR IN CURRENT TRENDS (SPEECH II)**

Grades: 10-12
Fee: $5

This is a seminar-style class that focuses on in-depth research and discussion of current trends in society, including politics and government, entertainment, sports, media and healthcare. Group discussion, extemporaneous speaking and declamation will be a part of the speech element of the class.

**THEATRE I: INTRODUCTION TO THEATRE**

Grades: 9-10
Prerequisite: None
Fee: $5

Students explore basic techniques in acting, directing, and producing live theatre as well as critical analysis of the art. A variety of performance and project assignments provide an opportunity for the individual to develop, organize, and interpret knowledge for application. Students develop creative expression through the application of knowledge, ideas, communication and collaboration skills, organizational abilities, and imagination in preparation for further learning.

**THEATRE II: METHODS & STYLES OF ACTING**

Grades: 9-11
Prerequisite: Theatre I and Teacher Approval OR Placement Exam and Audition
Fee: $5

Students apply basic techniques in acting, directing, and producing live theatre while exploring major developments in the history of theatre. In one major playwright’s and their plays, the evolution of theatre as a culture, production styles, and critical analysis of the art. Students develop aesthetic perception as well as historical and cultural perspective through the knowledge of art forms, respect for their commonalities and differences, and by recognizing and understanding that the arts throughout history are a record of human experience with a past, present, and future. The skills of analysis, problem solving, cooperative involvement, flexibility, productivity, and self-direction contribute to preparing the individual for further learning.

**THEATRE III: ADVANCED ACTING**

Grades: 11-12
Prerequisite: Theatre II and teacher approval
Fee: $5

Students refine skills in acting, characterization, script analysis, and research technique through the study of improvisation, monologues, scenes, stage combat, auditioning, and musical theatre. Students will also investigate career opportunities in theatre arts. Students develop accountability, productivity, and collaboration skills. Students also develop verbal and written skills in critical analysis through the study of and exposure to the arts. Students are required to perform in a scene recital each semester. Some after school and/or evening rehearsals will be required in preparation for performances.

**THEATRE IV: PLAY PRODUCTION**

Grades: 12
Fee: $5

This is an introductory course to stagecraft and technical theatre with work in basic stage carpentry, lighting, special effects and scenic painting presented in the form of lectures, demonstrations, and skills labs. Students are required to crew shows after regular school hours.

**HEALTH/PHYSICAL EDUCATION**

**HEALTH (1 CREDIT)**

Grades: 10

Health Education is a course that will help students to make informed choices about personal, family, and community health. The topics to be covered are first aid for injury and illness; personal health, substance use and abuse, nutrition, and how to prevent obesity. In order to fulfill the state’s health requirement (Bulletin No. 1596), each student must research and write a report about the topics listed above; write essays, complete worksheets, collect newspaper and magazine articles, pass written exams and attend special lectures provided during school hours.

**NINTH GRADE PE BLOCK**

Grades: 9

Fee: PE Uniform

The aim of this course is to develop activities which a person can use later in life. Such activities as volleyball, basketball, track and field, soccer, flag football, and softball are taught.

**TENTH GRADE PE BLOCK**

Tenth Grade PE/Health Block

ALPHABET (A-1)

Prerequisite: Tenth Grade Health/PE Block

TENTH GRADE PE BLOCK

Grades: 10

Fee: PE Uniform

This is an introductory course to stagecraft and technical theatre with work in basic stage carpentry, lighting, special effects and scenic painting presented in the form of lectures, demonstrations, and skills labs. Students are required to crew shows after regular school hours.

**HEALTH (1 CREDIT)**

Grades: 10

Health Education is a course that will help students to make informed choices about personal, family, and community health. The topics to be covered are first aid for injury and illness; personal health, substance use and abuse, nutrition, and how to prevent obesity. In order to fulfill the state’s health requirement (Bulletin No. 1596), each student must research and write a report about the topics listed above; write essays, complete worksheets, collect newspaper and magazine articles, pass written exams and attend special lectures provided during school hours.

**NINTH GRADE PE BLOCK**

Grades: 9

Fee: PE Uniform

The aim of this course is to develop activities which a person can use later in life. Such activities as volleyball, basketball, track and field, soccer, flag football, and softball are taught.

**TENTH GRADE PE BLOCK**

Tenth Grade PE/Health Block

ALPHABET (A-1)

Prerequisite: Tenth Grade Health/PE Block

TENTH GRADE PE BLOCK

Grades: 10

Fee: PE Uniform

This is an introductory course to stagecraft and technical theatre with work in basic stage carpentry, lighting, special effects and scenic painting presented in the form of lectures, demonstrations, and skills labs. Students are required to crew shows after regular school hours.
The aim of physical education is to develop activities which a person can use later in life. Such activities as volleyball, basketball, track and field, soccer, flag football, and softball are taught.

**ELEVENTH GRADE PE BLOCK**

**Grade:** 9

**Fee:** PE Uniform

The aim of this course is to develop activities which a person can use later in life. Such activities as volleyball, basketball, track and field, soccer, flag football, and softball are taught.

**TWELFTH GRADE PE BLOCK**

**Grade:** 12

**Fee:** PE Uniform

The aim of this course is to develop activities which a person can use later in life. Such activities as volleyball, basketball, track and field, soccer, flag football, and softball are taught.

**ROTC I - INTRODUCTION TO THE ROTC AND ARMY**

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

**Presented by the history, purpose, and objectives of the ROTC program.**

**PREREQUISITE:** ROTC I

**Fee:** $5

This course is designed to emphasis the importance of safety in the construction and industrial crafts. Students will learn to identify and follow safe work practices and procedures and how to properly inspect and use safety equipment.

**TECHNICAL EDUCATION**

**AGRICIENCE I**

**Grade:** 11

**Fee:** $5

Agriscience I provides students with basic knowledge of agriculture and the science applications in agriculture. This course includes units in animal science, soil science, plant science, agricultural mechanics, food science technology, and agricultural leadership. Supervised agricultural experience programs and the FFA leadership activities are integral components of the course and provide many opportunities for practical application of instructional competencies.

**AGRICIENCE II**

**Fee:** $5

Agriscience II is a continuation of Agriscience I.

**PREREQUISITE:** Agriscience I and Teacher Approval Required

**NCER CORE**

**Fee:** $5

This course is designed to emphasize the importance of safety in the construction and industrial crafts. Students will learn to identify and follow safe work practices and procedures and how to properly inspect and use safety equipment.

**VISUAL AND PERFORMING ARTS**

**ART I**

**Grade:** 9th grade only

**Fee:** $5

This course covers the following topics: Studio Production, critical analysis, aesthetic awareness, basic art history. Students are encouraged to develop their own ideas while learning the elements and principles of visual design. Students are also taught the foundations in drawing, painting, sculpture, graphics, ceramics, and printmaking. The curriculum of this course focuses on integrating art into the content areas: English, science, math, and social studies. This course is a prerequisite for all other Studio courses.

**ART II**

**Grade:** 10-12

**Fee:** $5

Prerequisite: Art I or teacher approval

This course places emphasis on developing concepts in art making and problem solving. Students will also continue developing skills in drawing, painting, and three-dimensional design covered in Art I, with critical and aesthetic analysis of contemporary artists. Transfer students must submit a portfolio.

**ART III**

**Grade:** 11-12

**Fee:** $5

Prerequisite: Art I and II at the high school level, and teacher approval

This is an intermediate level of visual arts which concentrates on a variety of painting media as well as mixed media and 3-D forms and graphic arts. In this course also examines the history of painting, critical and aesthetic concepts. Transfer students must submit portfolio.

**INSTRUMENTAL MUSIC**

**GENERAL MUSIC**

**Fee:** $5

This course is to develop comprehensive musicianship with a focus on musical literacy. The course allows students to transfer prior knowledge and skills and to explore and develop their musicianship to include public performances, visual displays and audio video recording.

**BEGINNING BAND**

**Fee:** $30

Open to students who are interested in learning how to play a band instrument or who need refinement of skills before taking advanced band. Some school-owned instruments are available.

**INTERMEDIATE BAND**

**Fee:** $30

Prerequisite: Beginning Band at the high school level, and teacher approval

This class is open, on instructor approval, to any student with previous training on a wind instrument (woodwind or brass). The class will focus on advanced sound production, rhythms, and overall musicianship. All students in this class are required to participate in the course for the entire school year. Some after school practices/performances may be required.

**ADVANCED BAND**

**Fee:** $30

Intermediate Band at the high school level, and teacher approval

This class is open, on instructor approval, to any student with previous training on a percussion instrument. The class will focus on advanced sound production, rhythms, and overall musicianship. All students in this class are required to participate in the course for the entire school year. Some after school practices/performances may be required. There are also mandatory practices two weeks prior to the start of the school year. Teacher approval required

**STUDIO PIANO I**

**Fee:** $5

Open to students with no previous music experience. Students will learn music theory, music terminology and piano skills. Requires the purchase of piano book and headphones. Metronome helpful but not required.

**STUDIO PIANO II**

**Fee:** $5

Advanced piano class; only students who complete piano I with a “C” or better can pass a written and performance test (given by instructor) will be eligible.

**MUSIC AND MEDIA**

**BEGINNING CHOIR**

**Fee:** $5

Students will learn basic music theory, fundamentals of reading music, and vocal production, music listening and evaluation skills and music history. Requires purchase of white shirt and black bottoms with black shoes.

**INTERMEDIATE CHOIR**

**Fee:** $5

Solid choral experience is necessary but not the more intense knowledge and rigorous experience of the mature, advanced ensembles at SMS. Strong emphasis is placed on listening, music theory, sight singing, and musicianship. This course is performance-based.

**PREREQUISITE:** Knowledge includes: all major/minor key signatures and their scales, chromatic and whole tone scales to be sung on letter names, single and two part rhythmic drills, Italian music terminology (dynamics, tempo, and style), names of notes treble/bass clef including two ledger lines above and below and naming speed requirements. Will, determination, dedication, choral experience, commitment, and above all a love of music at the highest level are required for the successful matriculation in this course.
## COURSE SELECTION SHEET

<table>
<thead>
<tr>
<th>ENGLISH</th>
<th>SOCIAL STUDIES</th>
<th>BUSINESS EDUCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>100100 English I</td>
<td>212000 World Geo.</td>
<td>641900 Intro. to Bus. Comp. Applications</td>
</tr>
<tr>
<td>100130 English I (COE)</td>
<td>212030 World Geography (COE)</td>
<td>634000 Accounting I</td>
</tr>
<tr>
<td>102100 English I (H)</td>
<td>211900 World Geography (H)</td>
<td>635000 Accounting II</td>
</tr>
<tr>
<td>100200 English II</td>
<td>211700 Civics</td>
<td>647000 Principles of Business</td>
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## COMPUTER SCIENCE

| 334000 Computer Science I                      |
| 334100 Computer Science II                     |

## CAREER ELECTIVES

| 613600 Basic Career Readiness                       |
| 614200 Advanced Career Readiness (ACT Prep)        |
| 748700 Customer Service                             |
| 763300 Medical Terminology                          |
| 763950 Intro to Health Occupations                 |
| 763200 First Responder                              |
| 080810 Principles of Information Technology        |
| 744850 Professional Ethics                         |

## SPEECH & THEATRE

| 177100 Speech I (Basic Communication)             |
| 182000 Speech II (Discussion)                     |
| 833100 Theatre I (Intro)                          |
| 833200 Theatre II (Methods and Styles)            |
| 833300 Theatre III (Advanced Acting) (TA)         |
| 833400 Theatre IV (Play Productions) (TA)         |
| 833500 Technical Theatre (Stagecraft) (TA)        |

## INSTRUMENTAL MUSIC

| 828100 General Music                              |
| 847000 Beginning Band                             |
| 856000 Intermediate Band                          |
| 842200 Advanced Band                              |
| 837000 Studio Piano I                             |
| 838000 Studio Piano II                            |
| 855400 Music & Media                              |

## VOCAL MUSIC

| 825000 Beginning Choir                            |
| 827100 Intermediate Choir                         |
| 828200 Music Appreciation (DUAL)                  |

## ENGINEERING

<p>| 724610 Intro to Engineering Design (TA)           |
| 724620 Principles of Engineering (TA)             |
| 724630 Digital Electronics (TA)                   |
| 724650 Civil Engineering—Architecture (TA)        |
| 724670 Engineering Design &amp; Development TA        |
| 723050 Robotics (TA)                              |</p>
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**Key**
- COE (Center of Excellence)
- H (Honors)
- Eng H (Engineering Honors)
- AP (Advanced Placement)
- DUAL (Dual Enrollment)
- TA (Teacher Approval)
Overview of Magnet Programs

Academic Magnet Program
The Academic Magnet Program is available to students with a 2.5 cumulative GPA for the previous four semesters and have scored basic or above in math and English on the 8th grade standardized test. All students are required to enroll in honors classes and maintain a 2.5 cumulative GPA. Advanced Placement and Dual Enrollment classes are available to students qualifying by scoring 18+ on the ACT test.

Engineering Program
The Engineering curriculum is a rigorous sequence of courses that, when combined with college preparatory mathematics and science, will prepare students for a successful post-secondary experience. Even students who do not intend to pursue further formal education will benefit from the knowledge, team building strategies, and problem solving abilities taught in these courses. The classes are filled with advanced materials, the latest design software, and cutting edge equipment.

The Engineering Magnet Program offers enrollment to incoming 9th grade student with a 3.0 GPA and scoring basic or above in math and English on the 8th grade assessments. All students are encouraged to enroll in Honors classes.

Business Program
The Center of Excellence for Business Entrepreneurship is full time program for students entering 9th grade, who are interested in starting their own business and becoming an entrepreneur. The program allows students to experience partnerships with local bankers, business leaders, and local entrepreneurs. Students participate in specialized courses and become active members in Distributive Education Clubs of America (DECA). Students can also engage with JA Shark Tank, Innovation through Design Thinking (iDT), EverFi, Business Plan Competition, Invest Insurance Program, Incubator and Market Expo.

Government Affairs and Law Program
The Center of Excellence for Government Affairs is a program for students who are interested in law, law enforcement, the legal system, criminal investigations, forensics and the study of criminal intent. The program allows students regardless of their academic standing or economic background, an opportunity to experience partnerships with local attorneys, judges, legislators and other members of government-related professionals.

Overview of Academies

Academy of Technology and Communication (Information Technology)
Vision Statement-Create and sustain an environment to pursue excellence for students interested in the fields of technology and communication.

Purpose of Academy (Mission statement) Serve students in a challenging learning environment in the areas of information technology and communication and to promote a culture of high achievement and success through cohorts of children with similar interest

Career theme focus: Information Technology

Academy of Finance
Vision Statement-Create and sustain an environment to pursue excellence for students aspiring for careers in financial services.

Purpose of Academy-Serve students with a rigorous and nurturing learning environment to concentrate on financial services, and to promote a culture of rigor, relevance, and relationships.

Career theme focus: Business Management

Academy of Health Sciences
Vision Statement-Foster an environment that perpetuates excellence for aspiring health science leaders.

Purpose of Academy-Provide students a rigorous learning environment to focus on the health sciences and to promote a culture of innovation through a cohort of students with similar interests.

Career them focus: Sports Medicine
Academy of Finance Courses

PRINCIPLES OF FINANCE (.5 credits)
This is the first course students take in the Academy of Finance and introduces students to the financial world. Students develop financial literacy as they learn about the function of finance in society. They study income and wealth; examine financial institutions; learn how businesses raise capital; and study key investment-related terms and concepts. They also research how innovations have changed the financial services field. Finally, students explore careers that exist in finance today.

FINANCIAL SERVICES (.5 credits)
This course gives students an overview of banks and other financial services companies. It introduces students to the origins of money and banking and examines the early history of banking in the United States. Students study the financial services industry and the types of companies it includes in depth. They learn about the services offered by such companies and analyze the ways these companies earn profits. Finally, students examine careers in financial services.

PRINCIPLES OF ACCOUNTING (.5 credits)
Principles of Accounting provides students with an understanding of the accounting process and how it facilitates decision making by providing data and information to internal and external stakeholders. Students learn that accounting is an integral part of all business activities. They learn how to apply technology to accounting by creating formulas and inputting data into spreadsheets. Students also examine career opportunities and the professional certifications and designations earned by individuals in the accounting profession.

MANAGERIAL ACCOUNTING (.5 credits)
Managerial Accounting introduces the fundamentals of management accounting, including manufacturing and cost accounting, budgeting, accounting for managerial decision-making, and financial statement analysis. Students learn how to use accounting information for internal decision-making and planning and control. Regardless of the career path they choose, this course gives students the financial acumen necessary to make informed personal and business decisions.

BUSINESS ECONOMICS (.5 credits)
Business Economics introduces students to the key concepts of economics as they pertain to business. This course discusses the American economy and the factors that influence the success of businesses and products. It describes forms of business ownership, discusses the relationship of labor and business, and provides a broad overview of the global economy. Students also examine careers in business, both as employees and as business owners.

BUSINESS IN A GLOBAL ECONOMY (.5 credits)
Business in a Global Economy provides students with an understanding of how and why businesses choose to expand their operations into other countries. This course exposes students to the unique challenges facing firms doing business internationally, and to the potential opportunities available to those businesses. Building on concepts introduced in Principles of Finance, Business in a Global Economy broadens students’ understanding of how businesses operate, grow, and thrive in our ever-changing world.

FINANCIAL PLANNING (.5 credits)
Financial Planning provides students with an overview of the job of a financial planner. Students learn to consider how all aspects of financial planning might affect a potential client, and learn about the importance of financial planning in helping people reach their life goals. This course includes lessons on saving, borrowing, credit, and all types of insurance, and covers various types of investments. Students also examine careers in financial planning.

INSURANCE (.5 credits)
This course introduces students to the insurance industry and to its critical role in the financial services sector and in society. It covers common types of insurance, including life, health and disability, property, liability, and forms of commercial insurance. Students examine the business model underlying the industry and how underwriting, actuarial science, and investment practices affect an insurance company’s financial success. Finally, they explore career opportunities, including broker, underwriter, actuary, and claims adjuster.

General NAF Courses

PRINCIPLES OF IT
The Principles of Information Technology course provides an overview of information technology (IT) today and introduces students to the basics of hardware and software. Students examine hardware components including peripherals, connectors, and memory. Students explore common operating systems, software applications, and programming languages. Students learn about types of networks and network topology, and they set up an email client/server connection. Students also consider contemporary issues such as security, privacy, and technological inequality. Finally, students explore career opportunities in IT.

PROFESSIONAL ETHICS
This course provides a solid understanding of why ethics is important in every profession. After an introduction to several philosophies that inform ethics today, students explore the characteristics of an ethical professional. Students consider the range of dilemmas faced by managers and employees in the workplace. They learn about the qualities of effective leaders and the tools modern professionals use to instill
an ethical workplace culture. Throughout the course, students have opportunities to refine their personal sense of ethics as they begin to build an ethical foundation for their professional future.

**Academy of Information Technology**

**GRAPHIC DESIGN (.5 credits)**
Graph Design provides a hands-on introduction to the technical and creative skills of a professional graphic designer. First, students learn the distinguishing features of communicating visually through graphic design. Next, they gain technical skills in Adobe Photoshop to equip them for graphic design work. From there, students master the basic principles of graphic design, and then delve into the elements of graphic design, such as color, typography, and images.

**WEB DESIGN (.5 credits)**
Web Design is a hands-on introduction to designing, building, and launching websites. Students learn the basics of HTML coding, explore various web development tools, and get practice creating websites using Adobe Dreamweaver. They learn how to make their websites more effective by applying the principles of design as well as usability and accessibility criteria. Finally, students take a look at various career opportunities in web design.

**DATABASE DESIGN (.5 credits)**
Database Design covers all aspects of the database life cycle, from collecting user requirements to delivering a database application. Students get hands-on practice in a true-to-life database project as they move from a statement of requirements to a conceptual model, then to an entity-relationship model. They translate this into a relational database. Finally, they create, test, and document the associated database application. Students also examine career opportunities as database professionals.

**DIGITAL VIDEO PRODUCTION (.5 credits)**
Digital Video Production provides a hands-on introduction to digital video production. It guides students through all phases of digital video production, from planning, executing, and managing a video shoot to editing footage. Students explore methods of sharing and broadcasting digital videos, including platform versions, CDs/DVDs, and web delivery. They also learn about publicizing a digital video, using techniques such as search engines to direct viewers to the production. Finally, students explore career opportunities in digital video production.

**INTRODUCTION TO PROGRAMMING**
Introduction to Programming uses Python as a basis for learning general programming skills. Students learn programming principles by comparing Python to other programming languages. They use models as a way to quickly solve new problems using knowledge and techniques already learned. Students complete over 60 programs in the course, including both text and graphics/animation programs. In addition to programming, students learn program design, documentation, formal debugging, and testing. Finally, students examine career opportunities in programming.

**Academy of Health Services**

**SPORT MEDICINE I (.5 credits)**
The Sports Medicine I curriculum is designed for students interested in the career of athletic training. The primary focus will include, but not be limited to, the following topics: The Sports Medicine Team, organization and administration, injury prevention, physical training and conditioning techniques, nutritional considerations, protective sports equipment, psychology of sports injury/illness, mechanisms and characteristics of sports trauma, tissue response to injury, human anatomy, exercise physiology, biomechanics, kinesiology, CPR, injury assessment and evaluation, environmental concerns, basic taping and bandaging, explanations of therapeutic modalities, basic exercise rehabilitation, and drug use/abuse in sports.

**SPORTS MEDICINE II (.5 credits)**
The Sports Medicine II curriculum is designed to educate students interested in fields such as athletic training, physical therapy, medicine, fitness, physiology of exercise, kinesiology, nutrition and other sports medicine fields. The main focus of this class is to introduce students to the science of human anatomy and physiology, various injuries of the body, and ways to care for these injuries.

**SPORTS MEDICINE III (.5 credits)**
The Sports Medicine III curriculum is designed to provide students in fields such as athletic training, physical therapy, medicine, fitness, physiology of exercise, kinesiology, nutrition in a deeper, hands on and field experiences in the sports medicine fields. The main focus of this class is the application of terminology of science of human anatomy and physiology, various injuries of the body, and ways to care for these injuries.
**Academic Magnet**

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Possible Industry Based Credentials Earned:
- MOS - Excel
- Word - Powerpoint

Possible Industry Based Credentials Earned:
- FEMA
- MOS - Excel
- Word - Powerpoint

Possible Industry Based Credentials Earned:
- Customer Service

KEY: AP Advanced Placement  DE Dual Enrollment

Public Safety Industry Based Credential Focus

My signature and my child’s signature below indicate that we have reviewed the course requests and understand the high school graduation and college entrance requirements. No schedule changes will be made after the 10th day of school.

_________________  ___________________  ________________
(Parent’s Signature)  (Student’s Signature)  (Date)
### Engineering Magnet/Academy of Engineering

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Possible Industry Based Credentials Earned:
- MOS
- Excel
- Word
- Powerpoint

Possible Industry Based Credentials Earned:
- FEMA
- OSHA
- NCCER

Possible Industry Based Credentials Earned:
- Customer Service

### Key:
- AP Advanced Placement
- DE Dual Enrollment

Engineering Magnet core courses will be Honors or AP

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My signature and my child’s signature below indicate that we have reviewed the course requests and understand the high school graduation and college entrance requirements. No schedule changes will be made after the 10th day of school.

_____________________________  __________________________  __________________________
(Parent’s Signature)  (Student’s Signature)  (Date)
**Business Management**

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<td>-Excel</td>
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<tr>
<td>-Word</td>
<td>-PowerPoint</td>
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</tr>
</tbody>
</table>

Possible Industry Based Credentials Earned:
- MOS
- Excel
- Word
- PowerPoint

**KEY:** AP Advanced Placement  DE Dual Enrollment

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_________________________  ___________________________  ____________
(Parent’s Signature)        (Student’s Signature)          (Date)
Law & Government Affairs

<table>
<thead>
<tr>
<th>9th Grade</th>
<th>10th Grade</th>
<th>11th Grade</th>
<th>12th Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Algebra I or Geometry</td>
<td>Geometry or Algebra II</td>
<td>Algebra II, Advanced Math, Pre-Calculus</td>
<td>Financial Literacy, Advanced Math, Pre-Calculus</td>
</tr>
<tr>
<td>English I</td>
<td>English II</td>
<td>English III</td>
<td>English IV</td>
</tr>
<tr>
<td>Physical Science</td>
<td>Biology</td>
<td>Chemistry</td>
<td>World History</td>
</tr>
<tr>
<td>World Geography</td>
<td>Civics</td>
<td>US History</td>
<td>Physics</td>
</tr>
<tr>
<td>Physical Education I or JROTC I</td>
<td>Spanish I or French I</td>
<td>Spanish II or French II</td>
<td><strong>Business Computer Applications</strong></td>
</tr>
<tr>
<td><strong>Principles of Ethics/ACT Prep</strong></td>
<td>Physical Education II / Health or JROTC II</td>
<td>Fine Arts Survey</td>
<td><strong>Sociology/Psychology</strong></td>
</tr>
<tr>
<td>Law Studies</td>
<td>American Government</td>
<td>Forensic Science</td>
<td><strong>Internship</strong></td>
</tr>
<tr>
<td>Elective Course: ____________</td>
<td>Elective Course: ____________</td>
<td>African-American Studies</td>
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<td>8 Credits</td>
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</table>

Possible Industry Based Credentials Earned:
- MOS - Excel
- Word - Powerpoint

Possible Industry Based Credentials Earned:
- FEMA

Possible Industry Based Credentials Earned:
- Customer Service
- MOS - Excel
- Word - Powerpoint

Possible Industry Based Credentials Earned:

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________________________________________________________________________
(Parent’s Signature)  (Student’s Signature)  (Date)
## Academy of Information Technology

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<tr>
<td>World Geography</td>
<td>Civics</td>
<td>US History</td>
<td>Physics</td>
</tr>
<tr>
<td>Physical Education I or JROTC</td>
<td>Spanish I or French I</td>
<td>Spanish II or French II</td>
<td>[DE/AP/Certification]</td>
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<tr>
<td><em>Introduction to Computational Thinking</em></td>
<td>Physical Education II / Health or JROTC II</td>
<td><em>Fine Arts Survey</em></td>
<td><em>Internship</em></td>
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<td><em>Computer Networking Basics</em></td>
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<td><em>Graphic Design/Web Design</em></td>
<td><em>Elective Course:</em>____________________________</td>
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<td>Alternate Elective:______________________________________________________</td>
<td><em>Computer Engineering</em></td>
<td>Alternate Elective:____________________________</td>
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</tr>
<tr>
<td><em>Fine Arts Survey</em></td>
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<tr>
<td><em>Database Design/Digital Video</em></td>
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<tr>
<td><em>Introduction to Programming</em></td>
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- 8 credits

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<td>Spanish II or French II</td>
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<td><em>Business Economics/Business in a Global Economy</em></td>
<td><em>Internship</em></td>
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Possible Industry Based Credentials Earned:
- FEMA
- Micro-Enterprise
- Customer Service

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# Academy of Health Sciences

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<td>World Geography</td>
<td>Civics</td>
<td>US History</td>
<td>DE/AP/Certification</td>
</tr>
<tr>
<td>Physical Education I or JROTC</td>
<td>Spanish I or French I</td>
<td>Spanish II or French II</td>
<td>Nurse Assistant</td>
</tr>
<tr>
<td>Introduction to Computational Thinking</td>
<td>Physical Education II / Health or JROTC II</td>
<td>Fine Arts Survey</td>
<td>Intro to Health Occupation</td>
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<tr>
<td>Principles of Ethics/Principles of IT</td>
<td>Sports Medicine I/Sports Medicine II</td>
<td>Medical Terminology</td>
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- MOS
- Excel
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- Powerpoint

Possible Industry Based Credentials Earned:
- MOS
- Excel
- FEMA
- Word
- Powerpoint

Possible Industry Based Credentials Earned:
- MOS
- Excel
- Word
- Powerpoint

Possible Industry Based Credentials Earned:
- Emergency Medical Responder
- First Aid
- CPR

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