



Clay-Chalkville High School

Dear Clay- Chalkville High School Parents and Students:

We are excited to continue to have you as a member of our CCHS learning community for the upcoming 2020-2021 school year!

Clay-Chalkville High School operates under a modified block schedule, offering each student 9 classes. Each semester, students will have 4 classes that meet every day and conclude at the end of the term. Every student will have one additional class that lasts the entire school year and meets every day.

Selecting a sound academic program for one's high school career is becoming increasingly complicated. Clay-Chalkville High School offers a modern, comprehensive curriculum designed to prepare each student for his or her current needs, higher education, or entry into the world of work. We cannot stress strongly enough the need for careful and intelligent planning with the student, their parents, and their counselor, if sound programs are to be well adapted to individual requirements.

As you examine the course selections, consider short-term and long-term goals. Be aware that we have a variety of electives from which you may choose; on the other hand, we also have a number of requirements for graduation which must be kept in mind at all stages of planning. Our counselors are available to answer questions about any of the courses that are listed on the course selection sheet and the requirements for each diploma type. Students and/or their parents are invited to make an appointment with our counselors as needed.

Please keep in mind that once you have placed a choice on your course selection sheet, it becomes a possibility that you will be scheduled in that course.
We will not change schedules if you have requested a course on your selection sheet.

Classes are scheduled by these selection sheets, so it crucial that you be very careful when making your selections.

Please be guided in your choice of programs by today's job and college admission requirements. If you have a question, please call the school to determine accurate information. We will be more than pleased to assist you by answering any questions which may arise or clarify situations about which you may have doubt.

Above all, plan a program which challenges you to appropriately set realistic goals and enables you to take advantage of the diversified offerings available here. Always plan course selections with alternatives in mind, since that is the only flexible way to assure a sound education in today's constantly changing environment.

As always, the faculty and staff is ready to help you in any way we can. Please do not hesitate to call.

Michael Lee
Principal

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DIPLOMA REQUIREMENTS

	Alabama High School Diploma	Credits	Advanced Academic Endorsement with Distinction	Fine Arts Endorsement with Merit	Career Tech Endorsement with Merit
	Total Credit Requirements	24	30*	30	30
	GPA Requirements	NONE	3.0	3.0	3.0
AREA of STUDY	Requirements				
ENGLISH	English 9, 10, 11, and 12 or any AP/IB/postsecondary equivalent option of these courses	4	4	4	4
MATHEMATICS	Algebra I, Geometry, Algebra II with Trig, or Algebra II, or their equivalent. Additional course(s) to complete the four credits in mathematics must be chosen from the ACOS or the CTE/AP/IB/post-secondary equivalent courses.	4	4	4	4
SCIENCE	Biology and a physical science (A physical science is Physical Science, Chemistry, and Physics.) The third and fourth science credits may be used to meet both the science and CTE course requirement and must be chosen from the ACOS or the CTE/AP/IB postsecondary equivalent courses.	4	4	4	4
SOCIAL STUDIES	World History, US History x2, and Government/Economics or AP/IB/postsecondary equivalent courses.	4	4	4	4
Physical Education	LIFE (Personal Fitness) One JROTC credit may be used to meet this requirement.	1	1	1	1
Health Education	<i>Alabama Course of Study: Health Education</i>	.5	.5	.5	.5
Career Preparedness	Career Preparedness Course (Career and Academic Planning, Computer Applications, Financial Literacy)	1	1	1	1
CTE and/or Foreign Language and/or Arts Education	Students choosing CTE, Arts Education and/or Foreign Language are encouraged to complete two courses in sequence.	3	3	3	3
Electives		2.5	8.5	8.5	8.5

Academic Advanced Courses	3+ AP Courses passed or 6 IB courses passed; 2 Foreign Languages in the same sequence; Chemistry; Pre-Calculus or higher math.		3		
Fine Arts	4+ Fine Art Courses passed			4	
CTE	4+ CTE Courses passed (excluding the Career Preparedness Course)				4

NCAA REQUIREMENTS FOR STUDENT ATHLETES

Students who intend to participate in Division I or II athletics as a freshman in college must be registered with and be certified as eligible by the NCAA Initial-Eligibility Clearinghouse. Please note that initial-eligibility certification pertains only to whether or not a student meets the NCAA requirements for participation and has no bearing on whether he/she qualifies for admission to a particular Division I or II institution.

To be certified by the Clearinghouse, a student must meet the following three requirements:

1. **Graduate from high school.** Apply for certification before graduation if you are sure you wish to participate in athletics at the college to which you will be admitted. The Clearinghouse will issue a preliminary certification report after you have had all your materials submitted. After you graduate, the Clearinghouse will review your final transcript to make a final certification decision according to NCAA standards. Certificate applications should be filled out after receiving junior-year grades. Applications can be obtained from the school counselor.

2. CORE COURSES

CORE UNITS REQUIRED FOR NCAA CERTIFICATION	Division I	Division II
	Entered 9 th grade after 2008	
English Core	4 years	3 years
Math Core*	3 years	2 years
Science Core (include one lab science)	2 years	2 years
Social Science Core	2 years	2 years
From English, math, or science	1 year	3 years
Additional Courses (any area above, foreign language, religion/philosophy)	4 years	4 years
Total Core Units Required	16	16

3. **GRADE POINT AVERAGE/ TEST SCORES:**

Division I—The minimum GPA in the 16 core courses and the required ACT / SAT score varies according to the Initial-Eligibility Index below:

<i>Use for Division I prior to August 1, 2016</i>			<i>Use for Division I beginning August 1, 2016</i>		
Core GPA	SAT	ACT	Core GPA	SAT	ACT
3.550 & above	400	37	3.550 & above	400	37
3.525	410	38	3.525	410	38
3.500	420	39	3.500	420	39
3.475	430	40	3.475	430	40
3.450	440	41	3.450	440	41
3.425	450	41	3.425	450	41
3.400	460	42	3.400	460	42
3.375	470	42	3.375	470	42
3.350	480	43	3.350	480	43
3.325	490	44	3.325	490	44
3.300	500	44	3.300	500	44
3.275	510	45	3.275	510	45
3.250	520	46	3.250	520	46
3.225	530	46	3.225	530	46
3.200	540	47	3.200	540	47
3.175	550	47	3.175	550	47
3.150	560	48	3.150	560	48
3.125	570	49	3.125	570	49
3.100	580	49	3.100	580	49
3.075	590	50	3.075	590	50
3.050	600	50	3.050	600	50
3.025	610	51	3.025	610	51
3.000	620	52	3.000	620	52
2.975	630	52	2.975	630	52
2.950	640	53	2.950	640	53
2.925	650	53	2.925	650	53
2.900	660	54	2.900	660	54
2.875	670	55	2.875	670	55
2.850	680	56	2.850	680	56
2.825	690	56	2.825	690	56
2.800	700	57	2.800	700	57
2.775	710	58	2.775	710	58
2.750	720	59	2.750	720	59
2.725	730	59	2.725	730	60
2.700	730	60	2.700	740	61
2.675	740-750	61	2.675	750	61
2.650	760	62	2.650	760	62
2.625	770	63	2.625	770	63
2.600	780	64	2.600	780	64
2.575	790	65	2.575	790	65
2.550	800	66	2.550	800	66
2.525	810	67	2.525	810	67
2.500	820	68	2.500	820	68

2.475	830	69	2.475	830	69
2.450	840-850	70	2.450	840	70
2.425	860	70	2.425	850	70
2.400	860	71	2.400	860	71
2.375	870	72	2.375	870	72
2.350	880	73	2.350	880	73
2.325	890	74	2.325	890	74
2.300	900	75	2.300	900	75
2.275	910	76	2.299	910	76
2.250	920	77	2.275	910	76
2.225	930	78	2.250	920	77
2.200	940	79	2.225	930	78
2.175	950	80	2.200	940	79
2.150	960	80	2.175	950	80
2.125	960	81	2.150	960	81
2.100	970	82	2.125	970	82
2.075	980	83	2.100	980	83
2.050	990	84	2.075	990	84
2.025	1000	85	2.050	1000	85
2.000	1010	86	2.025	1010	86
			2.000	1020	86

Division II- Earn a grade-point average of at least 2.00 (on a 4.0 scale) in a core curriculum of at least 16 academic courses, which were successfully completed during Grades 9-12. You must earn a 2.0 GPA average in your core courses. Only courses that satisfy the NCAA definition of a core course can be used to calculate your NCAA GPA. No special values are allowed for “+” or “-” grades. You must also earn a combined SAT score of 820 or an ACT sum score of 68.

 To initiate your contact with NCAA Initial-Eligibility Clearinghouse, a student should do the following:

1. Take the ACT and/or SAT and designate the Clearinghouse (Code #9999) as one of your score reporting choices.
2. Obtain a Clearinghouse form from the school guidance office, complete it, and send the white copy with the required **FEE** (check or money order) in an envelope using the address label attached to the informational brochure.

ENGLISH LANGUAGE ARTS

+0.5 point is added to the GPA for Advanced Level courses

+1.0 point is added to the GPA for AP courses in which student sits for the AP exam & earns an A, B, or C in the course.

+0.5 point is added to the GPA for AP courses in which student does not sit for the AP exam & earns an A, B, or C in the course

English, Grade 9

FEE: None

Course Code: 200005

Pre-requisites: English Language Arts, Grade 8

Reading literature, reading informational text, writing, speaking and listening, and language. NOTE: FULFILLS ENGLISH CREDIT REQUIRED FOR GRADUATION. This course is appropriate for students interested in a wide range of postsecondary options.

English, Grade 9, Advanced Level

FEE: None

Course Code: 200007

Pre-requisites: English Language Arts, Grade 8

Advanced work in reading literature, reading informational text, writing, speaking and listening, and language. NOTE: FULFILLS ENGLISH CREDIT REQUIRED FOR GRADUATION. This course is encouraged for students interested in pursuing postsecondary education at the two-year or four-year level.

English, Grade 10

FEE: None

Course Code: 200009

Pre-requisites: English Language Arts, Grade 9

Reading literature, reading informational text, writing, speaking and listening, and language. NOTE: FULFILLS ENGLISH CREDIT REQUIRED FOR GRADUATION. This course is appropriate for students interested in a wide range of postsecondary options.

English, Grade 10, Advanced Level

FEE: None

Course Code: 200011

Pre-requisites: English Language Arts, Grade 9

Advanced work in reading literature, reading informational text, writing, speaking and listening, and language. NOTE: FULFILLS ENGLISH CREDIT REQUIRED FOR GRADUATION. This course is encouraged for students interested in pursuing postsecondary education at the two-year or four-year level.

English, Grade 11

FEE: None

Course Code: 200013

Pre-requisites: English Language Arts, Grade 10

Reading literature, reading informational text, writing, speaking and listening, and language. NOTE: FULFILLS ENGLISH CREDIT REQUIRED FOR GRADUATION. This course is appropriate for students interested in a wide range of postsecondary options.

English, Language and Composition, AP

FEE: \$20.00 + AP Exam FEE

Course Code: 200016

Pre-requisites: English Language Arts, Grade 10

NOTE: FULFILLS ENGLISH CREDIT REQUIRED FOR GRADUATION. College-level advanced course following the curriculum established by the College Board Advanced Placement (AP) Program for English; engages students in becoming skilled writers who compose for a variety of purposes; guides students in becoming skilled readers of prose written in a variety of rhetorical contexts; extensive writing of compositions. Students who take this course are expected to take the AP Exam in May. Students may be eligible for college credit with a qualifying score on the AP Exam. This course is encouraged for students interested in pursuing postsecondary education at the two-year or four-year level.

English, Grade 12

FEE: None

Course Code: 200017

Pre-requisites: English Language Arts, Grade 11

Reading literature, reading informational text, writing, speaking and listening, and language. NOTE: FULFILLS ENGLISH CREDIT REQUIRED FOR GRADUATION. This course is appropriate for students interested in a wide range of postsecondary options.

English, Literature and Composition, AP

FEE: \$20.00 + AP Exam FEE

Course Code: 200020

Pre-requisites: English Language Arts, Grade 11

NOTE: FULFILLS ENGLISH CREDIT REQUIRED FOR GRADUATION. College-level advanced course following the curriculum established by the College Board Advanced Placement (AP) Program for English; engages students in the careful reading and critical analysis of imaginative literature from several genres and periods from the sixteenth to the twenty-first century; extensive writing of compositions. Students who take this course are expected to take the AP Exam in May. Students may be eligible for college credit with a qualifying score on the AP Exam. This course is encouraged for students interested in pursuing postsecondary education at the two-year or four-year level.

English Language Arts Electives

Literature, Mythology and Fable

FEE: None

Course Code: 200026

Pre-requisites: None

Study of Greece and Rome; Egypt and Mesopotamia; China, Japan, and India; mythologies and fables. NOTE: DOES NOT FULFILL ANY OF THE FOUR ENGLISH CREDITS REQUIRED FOR GRADUATION. This course is appropriate for students interested in a wide range of postsecondary options.

Speech

FEE: \$25.00

Course Code: 200043

Pre-requisites: None

NOTE: DOES NOT FULFILL ANY OF THE FOUR ENGLISH CREDITS REQUIRED FOR GRADUATION. Oral reading; children's literature; delivering, selecting, organizing speeches; persuasion; poise and verbal skills.

Bible as Literature

FEE: None

Course Code: 200025

Pre-requisites: None

Study of the Old Testament, New Testament, heroes, prophecies, poetry and prose style. NOTE: DOES NOT FULFILL ANY OF THE FOUR ENGLISH CREDITS REQUIRED FOR GRADUATION. This course is appropriate for students interested in a wide range of postsecondary options.

Debate

FEE: \$25.00

Course Code: 200045

Pre-requisites: Speech I

Individual work in debate. NOTE: DOES NOT FULFILL ANY OF THE FOUR ENGLISH CREDITS REQUIRED FOR GRADUATION. This course is appropriate for students interested in a wide range of postsecondary options.

MATHEMATICS

+0.5 point is added to the GPA for Advanced Level courses

+1.0 point is added to the GPA for AP courses in which student sits for the AP exam & earns an A, B, or C in the course.

+0.5 point is added to the GPA for AP courses in which student does not sit for the AP exam & earns an A, B, or C in the course

Algebra I with Probability

FEE: None

Course Code: 210056

Algebra I with Probability is a newly designed course, which builds upon algebraic concepts studied in the middle grades. It provides students with the necessary knowledge of algebra and probability for use in everyday life and in the subsequent study of mathematics. This is one of three courses required for all students. Algebra I with Probability emphasizes functions including linear (as introduced in Grades 7 and 8), absolute value, quadratic, and exponential; and functions as explicit (relation between input and output) and recursive (relation between each point and the next). Properties of algebra are applied to convert between forms of expressions and to solve equations (factoring, completing the square, rules of powers, and radicals).

Geometry with Data Analysis

FEE: None

Course Code: 210051

In Geometry with Data Analysis, students incorporate knowledge and skills from several mathematics content areas, leading to a deeper understanding of fundamental relationships within the discipline and building a solid foundation for further study. In the content area of Geometry and Measurement, students build on and deepen prior understanding of transformations, congruence, similarity, and coordinate geometry concepts. Informal explorations of transformations provide a foundation for more formal considerations of congruence and similarity, including development of criteria for triangle congruence and similarity. An emphasis on reasoning and proof throughout the content area promotes exploration, conjecture testing, and informal and formal justification. Students extend their middle school work with conjecturing and creating informal arguments to more formal proofs in this course.

Algebraic Connections

FEE: None

Course Code: 210015

Pre-requisites: Successful completion of Algebra I or Algebra IA/IB and Geometry

NOTE: FULFILLS ONE OF THE FOUR MATHEMATICS CREDITS REQUIRED FOR GRADUATION. Algebraic Connections is a course designed for students who wish to increase their mathematical knowledge and skills prior to enrollment in the Algebra II course or the Algebra II with Trigonometry course. Algebraic Connections expands upon the concepts of Algebra I and Geometry, with an emphasis on applying functions to make predictions and to calculate outcomes. This course is appropriate for students interested in a wide range of postsecondary options.

Algebra II

FEE: None

Course Code: 210016

Pre-requisites: Successful completion of Algebra I or Algebra IA/IB and Geometry

NOTE: FULFILLS ONE OF THE FOUR MATHEMATICS CREDITS REQUIRED FOR GRADUATION. Students are encouraged to solve problems using a variety of methods that promote the development of improved communication skills and foster a deeper understanding of mathematics. This course does not provide sufficient background to prepare students to pursue higher-level mathematics courses if taken as a terminating course in mathematics. This course is appropriate for students interested in a wide range of postsecondary options.

Algebra II with Trigonometry

FEE: None

Course Code: 210017

Pre-requisites: Successful completion of Algebra I or Algebra IA/IB and Geometry

NOTE: FULFILLS ONE OF THE FOUR MATHEMATICS CREDITS REQUIRED FOR GRADUATION. Algebra II with Trigonometry is a course designed to extend students' knowledge of Algebra I with additional algebraic and trigonometric content. This course is encouraged for students interested in pursuing postsecondary education at the two-year or four-year level.

Algebra II with Trigonometry, Advanced

FEE: None

Course Code: 210017aa

Pre-requisites: Successful completion of Algebra I/Algebra A/B and Geometry

NOTE: FULFILLS ONE OF THE FOUR MATHEMATICS CREDITS REQUIRED FOR GRADUATION. This course is an advanced study of the concepts contained in the Algebra II with Trigonometry course. Algebra II with Trigonometry is a course designed to extend students' knowledge of Algebra I with additional algebraic and trigonometric content. This course is encouraged for students interested in pursuing postsecondary education at the two-year or four-year level.

Discrete Mathematics

FEE: None

Course Code: 210018

Pre-requisites: Successful completion of Algebra I or Algebra IA/IB, Geometry, and Algebra II with Trigonometry

NOTE: FULFILLS ONE OF THE FOUR MATHEMATICS CREDITS REQUIRED FOR GRADUATION. Discrete Mathematics expands upon the topics of matrices, combinatorial reasoning, counting techniques, algorithms, sequences, series, and their applications. This course is encouraged for students interested in pursuing postsecondary education at the two-year or four-year level.

Precalculus

FEE: None

Course Code: 210020

Pre-requisites: Successful completion of Algebra I or Algebra IA/IB, Geometry, and Algebra II with Trigonometry

NOTE: FULFILLS ONE OF THE FOUR MATHEMATICS CREDITS REQUIRED FOR GRADUATION. This course is considered to be a prerequisite for success in calculus. Parametric equations, polar relations, vector operations, conic sections, and limits are introduced. Content for this course also includes an expanded study of polynomial and rational functions, trigonometric functions, and logarithmic and exponential functions. This course is encouraged for students interested in pursuing postsecondary education at the two-year or four-year level.

Precalculus, Advanced

FEE: None

Course Code: 210020aa

Pre-requisites: Successful completion of Algebra I or Algebra IA/IB, Geometry, and Algebra II with Trigonometry

NOTE: FULFILLS ONE OF THE FOUR MATHEMATICS CREDITS REQUIRED FOR GRADUATION. This course is an advanced study of the concepts contained in the Precalculus course. This course is considered to be a prerequisite for success in calculus. Algebraic, graphical, numerical, and verbal analyses are incorporated during investigations of the Precalculus content standards. Parametric equations, polar relations, vector operations, conic sections, and limits are introduced. Content for this course also includes an expanded study of polynomial and rational functions, trigonometric functions, and logarithmic and exponential functions. This course is encouraged for students interested in pursuing postsecondary education at the two-year or four-year level.

Calculus AB, AP

FEE: \$20 + AP Exam FEE

Course Code: 210025

Pre-requisites: Successful completion of Algebra I, Geometry, Algebra II with Trigonometry and Precalculus.

AP Calculus AB is roughly equivalent to a first semester college calculus course devoted to topics in differential and integral calculus. AP Calculus AB is structured around three big ideas: limit, derivatives, and integrals and the Fundamental Theorem of Calculus. The concept of limits is foundational; the understanding of this fundamental tool leads to the development of more advanced tools and concepts that prepared students to grasp the Fundamental Theorem of Calculus, a central idea of AP Calculus. Students who take this course are expected to take the AP Exam in May. Students may be eligible for college credit with a qualifying score on the AP Exam. This course is encouraged for students interested in pursuing postsecondary education at the two-year or four-year level.

Statistics, AP

FEE: \$20 + AP Exam FEE

Course Code: 210027

Pre-requisites: Successful completion of Algebra I, Geometry, Algebra II with Trigonometry

The AP Statistics course is equivalent to a one semester, introductory, non-calculus based college course in statistics. The course introduced students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes in the AP Statistics course: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students who take this course are expected to take the AP Exam in May. Students may be eligible for college credit with a qualifying score on the AP Exam. This course is encouraged for students interested in pursuing postsecondary education at the two-year or four-year level.

SCIENCE

+0.5 point is added to the GPA for Advanced Level courses

+1.0 point is added to the GPA for AP courses in which student sits for the AP exam & earns an A, B, or C in the course.

+0.5 point is added to the GPA for AP courses in which student does not sit for the AP exam & earns an A, B, or C in the course

Biology

FEE: None

Course Code: 220011

Pre-requisites: None

Biology is a required, inquiry-based course focused on providing students with foundational life science content about the patterns, processes and interactions among living organisms. Students will look at content in the areas of structures and processes of the cell, ecosystems, heredity, and change over time of organisms. This course is appropriate for students interested in a wide range of postsecondary options.

Advanced Biology

FEE: \$25.00

Course Code: 220012

Pre-requisites: Successful completion of 8th Grade Science, preferably at the advanced level

This academically challenging course includes an in-depth study of the biological sciences. Topics include those in biology, but are taught with preparation for AP Biology in mind. This course is encouraged for students interested in pursuing postsecondary education at the two-year or four-year level.

AP Biology

FEE: \$25.00 + AP Exam FEE

Course Code: 220014

Pre-requisites: Successful completion of biology and chemistry, preferably at an advanced level

This college-level course includes an advanced study of the biochemical process of life and in-depth study of molecular biology, cell physiology, genomics, genetics, etc. Advanced laboratory experiments are an integral part of this course and may require additional time outside of the allotted class period to complete. Some independent research is recommended and may also be required. Students who take this course are expected to take the AP Exam in May. Students may be eligible for college credit with a qualifying score on the AP Exam. This course is encouraged for students interested in pursuing postsecondary education in a STEM field at the two-year or four-year level.

Physical Science

FEE: None

Course Code: 220051

Pre-requisites: Completion of biology, any level

This course will satisfy the physical science requirement needed for graduation. This is conceptual, inquiry-based course that provides students with an investigation of the basic concepts of chemistry and physics. Content standards covered in this course include matter and its interactions, forces and motion, energy and waves. This course is appropriate for students interested in a wide range of postsecondary options.

Chemistry

FEE: \$25.00

Course Code: 220061

Pre-requisites: Completion of biology, any level

This course will satisfy the physical science requirement needed for graduation. This is mathematics-heavy course that applies mathematical concepts to chemical interactions. Content standards covered in this course include matter and its interactions, energy transformations, changes in matter, chemical reactions, stoichiometric calculations, etc. This course is appropriate for students interested in a wide range of postsecondary options.

Chemistry, Advanced

FEE: \$25.00

Course Code: 220063

Pre-requisites: Successful completion of biology, preferably at the advanced level

This academically challenging course is designed to prepare students for success in AP Chemistry. This course is an in-depth study of those topics in Chemistry and will also include introduction of equilibrium, redox reactions nuclear chemistry and electrochemistry, to name a few. This course is encouraged for students interested in pursuing postsecondary education at the two-year or four-year level.

AP Chemistry

FEE: \$25.00 + AP Exam FEE

Course Code: 220064

Pre-requisites: Successful completion of biology and chemistry, preferably at the advanced level. Students should also have successfully completed Algebra II and be concurrently enrolled in Precalculus.

This is a college-level course that includes advanced studies in chemical interactions. This course is designed for the academically talented student who is considering a degree in science, engineering or medicine. It involves complex material and stresses problem-solving. Advanced laboratory experiments are an integral part of this course and may require additional time outside of the allotted class period to complete. Some independent research is recommended and may also be required. Students who take this course are expected to take the AP Exam in May. Students may be eligible for college credit with a qualifying score on the AP Exam. This course is encouraged for students interested in pursuing postsecondary education in a STEM field at the two-year or four-year level.

Environmental Science

FEE: \$25.00

Course Code: 220029

Pre-requisites: Completion of biology and chemistry/physical science, any level

Environmental Science is a course that introduces students to a broad view of the biosphere and the physical parameters that affect it. This course is appropriate for students interested in a wide range of postsecondary options.

AP Environmental Science

FEE: \$25 + AP Exam Fee

Course Code: 220032

Pre-requisites: Successful completion of biology and chemistry, preferably at the advanced level

The goal of this course is to provide 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 the alternative solutions for resolving and/or preventing them. Advanced laboratory experiments are an integral part of this course and may require additional time outside of the allotted class period to complete. Some independent research is recommended and may also be required. Students who take this course are expected to take the AP Exam in May. Students may be eligible for college credit with a qualifying score on the AP Exam. This course is encouraged for students interested in pursuing postsecondary education in a STEM field at the two-year or four-year level.

Human Anatomy and Physiology

FEE: \$25.00

Course Code: 220026

Pre-requisites: Completion of biology and chemistry/physical science

This course is designed to address the structure and function of human body systems from the cellular level to the organism level. This course is appropriate for students interested in a wide range of postsecondary options.

Advanced Human Anatomy and Physiology

FEE: \$25.00

Course Code: 220028

Pre-requisites: Completion of biology and chemistry/physical science, preferably at the advanced level

This course is for students who have an interest in pursuing a career in nursing, medicine or health related sciences. It is designed to address the structure and function of human body systems from the cellular level to the organism level. This course is encouraged for students interested in pursuing postsecondary education at the two-year or four-year level.

AP Physics 1

FEE: \$25.00 + AP Exam FEE

Course Code: 220057

Pre-requisites: Completion of biology and chemistry, preferably at the advanced level. Successful completion of Advanced Level Geometry and concurrently enrolled in Advanced Algebra II with Trig.

This course will satisfy the physical science requirement for graduation. *This is an algebra-based, introductory college level physics course. Students will explore principles of Newtonian mechanics (including rotational motion); work, energy and power; mechanical waves and sound; and introductory, simple circuits. Advanced laboratory experiments are an integral part of this course and may require additional time outside of the allotted class period to complete. Some independent research is recommended and may also be required. Students who take this course are expected to take the AP Exam in May. Students may be eligible for college credit with a qualifying score on the AP Exam. This course is encouraged for students interested in pursuing postsecondary education in a STEM field at the two-year or four-year level.*

Physics

Course Code: 220071

This course will satisfy the physical science requirement needed for graduation. *Detailed exploration of properties of physical matter, physical quantities, motion and stability, energy, and waves and their applications for information transfer through authentic investigations and engineering design processes.*

AP Computer Science Principles

FEE: \$25 + AP Exam Fee

Course Code: 520018

Pre-requisites: Successful completion of Algebra II with Trigonometry

*College-level advanced course following the curriculum established by the College Board Advanced Placement (AP) program for computer science; focuses on the innovative and multidisciplinary aspects of computing as well as the computational thinking practices that help students see how computing is relevant to many areas of their everyday lives; introduces students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cyber security concerns, and computing impacts. **This course may be used as the fourth math credit or an elective.** Students who take this course are expected to take the AP Exam in May. Students may be eligible for college credit with a qualifying score on the AP Exam. This course is encouraged for students interested in pursuing postsecondary education at the two-year or four-year level.*

SOCIAL STUDIES

+0.5 point is added to the GPA for Advanced Level courses

+1.0 point is added to the GPA for AP courses in which student sits for the AP exam & earns an A, B, or C in the course.

+0.5 point is added to the GPA for AP courses in which student does not sit for the AP exam & earns an A, B, or C in the course

World History: 1500 to Present

FEE: None

Course Code: 230013

Pre-requisites: None

Chronological history of the world: the emergence of a global age; the Age of Revolutions; the Age of Isms; era of global war; the world from 1500 to present. This course is appropriate for students interested in a wide range of postsecondary options.

World History: 1500 to Present Advanced Level

FEE: None

Course Code: 230015

Pre-requisites: None

Advanced work in chronological history of the world: the emergence of a global age; the Age of Revolutions; the Age of Isms; era of global war; the world from 1500 to present. This course is encouraged for students interested in pursuing postsecondary education at the two-year or four-year level.

United States History I: Beginnings to the Industrial Revolution

FEE: None

Course Code: 230016

Pre-requisites: None

Chronological survey of major events and issues: colonization; American Revolution; development of political system and distinct culture; slavery; reform movements; sectionalism; Civil War; Reconstruction; Alabama's history and geographic changes that have influenced aspects of life during and after events. This course is appropriate for students interested in a wide range of postsecondary options.

AP US History I: Beginnings to the Industrial Revolution

FEE: \$20.00

Course Code: 230018aa

Pre-requisites: Successful completion of world history, preferably at the advanced level

This course focuses on the development of historical thinking skills (chronological reasoning, comparing and contextualizing, crafting historical arguments using historical evidence, and interpreting and synthesizing historical narrative) and the development of students' abilities to think conceptually about U.S. history from approximately 1491 to the early industrial movement. Students are expected, but not required, to take the AP US History II course. The AP Exam is taken at the end of the AP US History II course. This course is encouraged for students interested in pursuing postsecondary education at the two-year or four-year level.

United States History II: The Industrial Revolution to the Present

FEE: None

Course Code: 230019

Pre-requisites: None

Chronological survey of major events and issues: industrialization; Progressivism; foreign policy; World War I; the Great Depression; World War II; post-war United States; contemporary United States; Alabama's history and geographic changes that have influenced aspects of life during and after events

AP US History II

FEE: \$20.00 + AP Exam FEE

Course Code: 230022

Pre-requisites: Successful completion of AP US History I

This course focuses on the development of historical thinking skills (chronological reasoning, comparing and contextualizing, crafting historical arguments using historical evidence, and interpreting and synthesizing historical narrative) and the development of students' abilities to think conceptually about U.S. history from approximately 1890 to the present. This course is not recommended for students who have not completed AP US History I. The AP Exam is taken at the end of the AP US History II course. Students who take this course are expected to take the AP Exam in May. Students may be eligible for college credit with a qualifying score on the AP Exam. This course is encouraged for students interested in pursuing postsecondary education at the two-year or four-year level.

United States Government (.5 Credit)

FEE: None

Course Code: 230041

Pre-requisites: None

*Origins, functions, and branches of U. S. government; representative democracy; federalism; political/civic life; analysis of Constitution, Bill of Rights, and other relevant documents; foreign policy. This course is appropriate for students interested in a wide range of postsecondary options. *Students must earn at least ½ credit in both US Government and Economics.*

Economics (.5 credit)

FEE: None

Course Code: 230051

Pre-requisites: None

*Basic elements of economics; comparative economic systems and economic theories; role of the consumer; business and labor issues; functions of government; structure of U. S. banking system; role of Federal Reserve Bank. This course is appropriate for students interested in a wide range of postsecondary options. *Students must earn at least ½ credit in both US Government and Economics.*

SOCIAL STUDIES ELECTIVES

+0.5 point is added to the GPA for Advanced Level courses

+1.0 point is added to the GPA for AP courses in which student sits for the AP exam & earns an A, B, or C in the course.

+0.5 point is added to the GPA for AP courses in which student does not sit for the AP exam & earns an A, B, or C in the course.

Psychology

FEE: None

Course Code: 230071

Pre-requisites: None

*History of psychological inquiry; methods of scientific research; human development; sensation and perception; motivation and emotion; states of consciousness; social psychology, cognition; intelligence and assessment; personality theories; stress; mental disorders and treatments. **This course does not fulfill any of the four social studies credits required for graduation.** This course is appropriate for students interested in a wide range of postsecondary options.*

Psychology, AP

FEE: \$20.00 + AP Exam FEE

Course Code: 230072

Pre-requisites: Successful completion of biology and chemistry, preferably at the advanced level

*The AP Psychology course introduces students to the systematic and scientific study of human behavior and mental processes. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology. Throughout the course, students employ psychological research methods, including ethical considerations, as they use the scientific method, analyze bias, evaluate claims and evidence, and effectively communicate ideas. **This course does not fulfill any of the four social studies credits required for graduation.** Students who take this course are expected to take the AP Exam in May. Students may be eligible for college credit with a qualifying score on the AP Exam. This course is encouraged for students interested in pursuing postsecondary education at the two-year or four-year level.*

Street Law

FEE: None

Course Code: 230032aa

Pre-requisites: Grades 10-12

*A course in practical law. It includes an overview of Criminal Law and Juvenile Justice, Torts, Consumer and Housing laws, Family, Law and Individual Rights and Liberties. **This course does not fulfill any of the four social studies credits required for graduation.** Textbook or ancillary materials are not provided for this course. This course is appropriate for students interested in a wide range of postsecondary options.*

AP European History

FEE: \$20.00 + AP Exam FEE

Course Code: 230029

Pre-requisites: Successful completion of US History I and US History II, preferably at the advanced level

*The AP European History course focuses on developing students' understanding of European history from approximately 1450 to the present. The course has students investigate the content of European history for significant events, individuals, developments, and processes in four historical periods, and develop and use the same thinking skills and methods (analyzing primary and secondary sources, making historical comparisons, chronological reasoning, and argumentation) employed by historians when they study the past. **This course does not fulfill any of the four social studies credits required for graduation.** Students who take this course are expected to take*

the AP Exam in May. Students may be eligible for college credit with a qualifying score on the AP Exam. This course is encouraged for students interested in pursuing postsecondary education at the two-year or four-year level.

Sociology

FEE: None

Course Code: 230081

Pre-requisites: None

Culture and society; social inequalities; social institutions; social change. This course does not fulfill any of the four social studies credits required for graduation. ALCOS standards are provided for this course. This course is appropriate for students interested in a wide range of postsecondary options.

Holocaust Studies

FEE: None

Course Code: 230032ac

Pre-requisites: None

History of Judaism and rise of Nazism; early days of Holocaust, height of Holocaust, aftermath of Holocaust. This course does not fulfill any of the four social studies credits required for graduation. Textbook or ancillary materials are not provided for this course. This course is appropriate for students interested in a wide range of postsecondary options.

PHYSICAL EDUCATION & HEALTH

Health (.5 credit)

FEE: None

Course Code: 250002

PREREQUISITE: None

Develops skill for accessing personal health information. Students may earn this credit by taking Foundations of Health Science (Career Technical Education course). This course is required to graduate.

Lifelong Individualized Fitness Education (LIFE)

FEE: None

Course Code: 240002

PREREQUISITE: None

NOTE: THIS IS THE ONLY COURSE THAT FULFILLS THE GRADUATION REQUIREMENT FOR PHYSICAL EDUCATION. Individualized fitness plan for lifetime fitness. This course is required to graduate.

Team Sports

FEE: None

Course Code: 240016

Prerequisite: LIFE PE

Basketball; Cricket; Field hockey; Flag football; Floor hockey; Lacrosse; Rugby; Soccer; Softball; Speedball; Team handball; Volleyball

Lifetime Activities, Individual or Dual Sports

Fee: None

Course Code: 240015

Prerequisite: LIFE PE

Archery; Badminton; Cycling; Dance (line, hip-hop, folk and square, ballroom, etc.); Golf (with clubs, Frisbee golf); Gymnastics (tumbling, floor exercises, etc.); Handball; Tennis; Recreational games (deck tennis, shuffleboard, bowling, darts, table; tennis, croquet)

Driver and Traffic Safety Education (.5 credit)

Fee: \$25.00

Course Code: 290001

PREREQUISITE: None

Safe driving theory; in class study; driving hazards; boating safety; behind the wheel experience; safety practices

FOREIGN LANGUAGE

Spanish I

FEE: \$20.00

Course Code: 270153

Pre-requisites: None

Listening and speaking skills including understanding and responding to simple directions, expressions of courtesy, and questions related to daily routines; reading and writing skills including words and phrases used in basic situational contexts; beginning understanding of Spanish-speaking cultures.

Spanish II

FEE: \$20.00

Course Code: 270154

Pre-requisites: Spanish I

Listening and speaking skills including understanding and responding to directions, commands, and questions; reading with comprehension main ideas from simple texts; writing with comprehension short presentations; further understanding of Spanish-speaking cultures.

Spanish III

FEE: \$20.00

Course Code: 270155

Pre-requisites: Spanish II

Listening and speaking skills including understanding and responding to factual and interpretive questions; paraphrasing, explaining, and giving cause; interpreting main ideas and supporting details from authentic texts; creating presentations; increased understanding of Spanish-speaking cultures.

Arts & Communication Academy Electives

+0.5 point is added to the GPA for Advanced Level courses

+1.0 point is added to the GPA for AP courses in which student sits for the AP exam & earns an A, B, or C in the course.

+0.5 point is added to the GPA for AP courses in which student does not sit for the AP exam & earns an A, B, or C in the course.

ART

Visual Arts 1

FEE: \$40.00

Course Code: 286100

Prerequisite: None

Create; produce; elements and principals of design; two-and three- dimensional techniques and media; art history; art vocabulary; aesthetics; criticism; solution of art problems to communicate ideas; safety issues with handling and storage of materials

Visual Arts II

FEE: \$40.00

Course Code: 286200

Prerequisite: Visual Arts I and approval of the instructor

Create; visual relationships; problem solve using a variety of media and techniques; elements and principles of design; aesthetics; criticism; art history; art vocabulary; evaluation of artwork; interdisciplinary connections.

Visual Arts III

FEE: \$40.00

Course Code: 286300

Prerequisite: Visual Arts II and approval of the instructor

Create; problem solve; utilize variety of media and techniques; communicate concepts, emotions, intentions; elements and principles of design; technology; independent research; self-directed sketchbook; critical analysis; aesthetics; art history; interdisciplinary connections.

Studio Art Drawing, AP

FEE: \$40.00 + AP Exam FEE

Course Code: 280102

Prerequisite: Visual Arts II, approval of instructor; open to 11th and 12th graders

College-level advanced course approved by the College Board Advanced Placement (AP) Program for art; portfolio production; demonstrate mastery of drawing in concept, composition, and execution; develop a body of work investigating a visual idea in drawing; variety of concepts and approaches in drawing; documentation. Students who take this course are expected to complete the AP Exam portfolio according to the calendar set by the instructor. Students may be eligible for college credit with a qualifying score on the AP Exam. This course is encouraged for students interested in pursuing postsecondary education at the two-year or four-year level.

Crafts I

FEE: \$40.00

Course Code: 286101

This one credit course, novice level, it is the first of a sequential high school course focusing on craft arts. Creating, presenting, responding and connecting drive critical thinking, meaning, reflection, production and assessment to understand how craft arts communicate ideas and allows for self-expression. Through exploration and experimentation, this course provides students with a general foundation in functional art including the history of crafts, crafts of various cultures, studio practice in a variety of crafts media, safe studio practices, proper care and storage of supplies and equipment, aesthetics, criticism, and elements and principles of design.

BAND

Concert Band

FEE: \$50.00

Course Code: 283300

PREREQUISITE: subject to teacher approval

This is a one credit course, proficient level, designed for students to increase artistry through reinforced experiences in an instrumental music concert band setting. Students will continue to develop a characteristic tone and engage in the processes of creating, performing and responding as related to instrumental music, while employing the concepts of timbre, rhythm, melody, harmony, form and expression. Students will study works of famous composers of concert band music and learn to connect musical experiences to other cultures and disciplines within and outside of the arts.

Symphonic Band

FEE: \$25.00

Course Code: 283202

PREREQUISITE: subject to teacher approval

This is a one credit course, intermediate level, is designed for students with at least one year of experience to experience instrumental music in a marching band setting. Students will continue to develop a characteristic tone and engage in the processes of creating, performing, and responding as related to instrumental music, while employing the concepts of timbre, rhythm, melody, harmony, form, and expression. Students will develop coordination skills associated with marching while playing instruments and learn to connect musical experiences to other cultures and disciplines within and outside of the arts.

Percussion

FEE: \$50.00

Course Code: 283112

PREREQUISITE: subject to teacher approval

This is a one credit course, novice level, designed for beginning music students to experience instrumental music in a setting of only percussion instruments. Students will develop a characteristic tone and engage in the processes of creating, performing and responding as related to instrumental music, while employing the concepts of timbre, rhythm, melody, harmony, form and expression. Students will study works of quality compositions and learn to connect musical experiences to other cultures and disciplines within and outside of the arts.

Jazz Band

FEE: \$25.00

Course Code: 283104

PREREQUISITE: Subject to teacher approval

This is a one credit course, novice level, designed for beginning music students to experience instrumental music in a jazz band or jazz ensemble setting. Students will develop a characteristic tone and engage in the processes of creating, performing and responding as related to instrumental music, while employing the concepts of timbre, rhythm, melody, harmony, form and expression. Students will study works of famous composers of jazz music and learn to connect musical experiences to other cultures and disciplines within and outside of the arts.

CHOIR

Vocal Level III

FEE: \$25.00

Course Code: 280055

PREREQUISITE: VOCAL LEVEL II OR APPROVAL OF THE INSTRUCTOR.

Sing varied repertoire; sight-sing four-part literature; improvise harmonies; perform; analyze, critique; melodic dictation; elements of music; key signatures; history; minor scales.

Vocal Level IV

FEE: \$25.00

Course Code: 280057

PREREQUISITE: VOCAL LEVEL III OR APPROVAL OF THE INSTRUCTOR.

Sing varied repertoire; sight-sing multipart literature; improvise vocally; perform; analyze, critique; circle of fifths; history; minor scales.

THEATER

Theater Level 1

FEE: \$25.00

Course Code: 285100

PREREQUISITE: None

Produce; respond to productions; vocal, kinesthetic, emotional, analytical, and intellectual elements; dramatic structure; acting process; collaborative nature of a theatrical production and role of production staff; theatre history; theatre vocabulary; aesthetics; evaluating artistic choices

Theater Level 2

FEE: \$25.00

Course Code: 285200

PREREQUISITE: THEATRE LEVEL I OR APPROVAL OF THE INSTRUCTOR.

Produce; character development; script analysis; collaboration; role of technical theatre; self-evaluation; legal and ethical issues; theatre history; concepts of theatre; elements of theatre; styles of performance; stage combat; improvisation; playwriting; technology.

Theater Level 3

FEE: \$25.00

Course Code: 285300

PREREQUISITE: THEATRE LEVEL II OR APPROVAL OF THE INSTRUCTOR.

Create; improvisation; write scripts, direct, perform; theatre history; theatre vocabulary; aesthetics; criticism; characterization; analysis; interpretation; technical work; technology; compare fundamental elements used for communication with other art forms.

Business Marketing/Informational Technology Academy Electives

Career Preparedness

Fee: None

Course Code: 400025

PREREQUISITE: None

A one-credit course that is taught in Grades 9-12. The course prepares students with content knowledge and skills in the areas of career development and academic planning, computer skill application, and financial literacy. This course meets the required 20-hour online experience.

BUSINESS TECHNOLOGY APPLICATIONS

FEE: \$25.00

Course Code: 450006

Pre-requisites: None

A one-credit foundation course designed to assist students in developing technological proficiencies in word processing, spreadsheets, databases, presentations, communications, Internet use, ethics, and careers using technology applications.

ADVANCED BUSINESS TECHNOLOGY APPLICATIONS

Fee: \$25.00

Course Code: 450031

Pre-requisites: Business Technology Applications

A one-credit course that provides students with project-based applications of concepts learned in Business Technology Applications or Business Essentials. Students will use various software applications to prepare documents for publication and generating information. The prerequisite for this course is Business Technology Applications or Computer Applications.

BUSINESS ESSENTIALS

Fee: \$25.00

Course Code: 450007

Pre-requisites: Advanced Business Technology Applications

A one-credit foundation course where students develop an understanding of how academic skills in mathematics, economics, and written and oral communications are integral components of success in commerce and information technology careers

INTRODUCTION TO ADVERTISING DESIGN

FEE: \$25.00

Course Code: 440031

Pre-requisites: None

A one-credit course that provides students with instruction and experiences in an advertising design laboratory and studio environment.

DIGITAL DESIGN

FEE:

\$25.00

Course Code: 440032

Pre-requisite: Introduction to Advertising Design

A one-credit course that provides students with hands-on experiences including computer operations, applications and procedures, type styles, desktop publishing, layout and design techniques, mechanical production files, formats, and workplace-related technology. The prerequisite for this course is Introduction to Advertising Design or an equivalent visual arts credit.

GRAPHIC ILLUSTRATION

FEE: \$25.00

Course Code: 440033

Pre-requisite: Digital Design

A one-credit course that provides students with experiences and instruction in object and information design.

MANAGEMENT PRINCIPLES

FEE: \$25.00

Course Code: 480011

Pre-requisites: Business Technology Applications

A one-credit course designed to provide students with an understanding of the organizational functions of businesses, including quality concepts, project management, and problem solving. Specific content standards to be included in each of the courses are indicated in the Course of Study chart.

MARKETING PRINCIPLES

FEE: \$25.00

Course Code: 550011

Pre-requisites: Business Technology Applications

A one-credit course designed to provide students with an overview of in-depth marketing concepts. Students develop a foundational knowledge of marketing and its functions, including marketing information management, pricing, product and service management, entrepreneurship, and promotion and selling.

SPORTS AND ENTERTAINMENT MARKETING FUNDAMENTALS

FEE: \$25.00

Course Code: 550013

Pre-requisites: Marketing Principles

Sports and Entertainment Marketing is a one credit specialized course designed to offer students an opportunity to gain knowledge and develop skills related to the growing sports and entertainment industry. Sports Marketing addresses such diverse products as the sporting event itself, its athletes, sports facilities or locations, sporting goods, personal training, and sports information. Entertainment marketing includes events such as fairs, concerts, trade shows, festivals, plays, product launches, and causes.

WORKFORCE ESSENTIALS

FEE: \$10.00

Course Code: 400016

A one-credit course that provides students with higher-level academic and occupational skills that are transferable across jobs and occupational areas. Emphasis is placed on career development and employment. This course can be taken under any of the academies.

COOPERATIVE EDUCATION

FEE: \$10.00

Course Code: 400031

Prerequisite: At least one CTE course, any cluster

A one-credit work-based experience requiring a minimum of 140 continuous and successful hours of employment performed under the supervision of a workplace mentor and the work-based learning/cooperative education coordinator.

INFORMATION TECHNOLOGY FUNDAMENTALS

Fee: \$25.00

Course Code: 520005

Pre-requisites: None

A one-credit course that introduces students to the knowledge base and technical skills for information technology careers. Students study the nature of business and demonstrate knowledge of the functions of information systems in business.

NETWORKING I

Fee: \$25.00

Course Code: 520021

Pre-requisites: IT Fundamentals

A one-credit course designed to provide students with skills involving a hands-on, career-oriented approach to learning networking that includes practical experiences.

NETWORKING II

Fee: \$25.00

Course Code: 520022

Pre-requisites: Networking I

A one-credit course designed to provide students will skills involving hands-on learning by installing a router, configuring a server, and performing disaster recovery.

EXPLORING COMPUTER SCIENCE

Fee: \$25.00

Course Code: 520043

Pre-requisites: Algebra I; Grade 9 or 10

Exploring Computer Science is an introductory year-long high school computer science course for students in Grades 9-10 focused on foundational computer science concepts and computational practices. Students will be introduced to the breadth of the field of computer science through an exploration of engaging and accessible topics. The course is designed to focus on the conceptual ideas of computing and help students understand why certain tools or languages might be utilized to solve particular problems. The goal of Exploring Computer Science is to develop in students the computational practices of algorithm development, problem solving and programming within the context of problems that are relevant to the lives of today's students. Students will also be introduced to topics such as interface design, limits of computers, and societal and ethical issues.

INTRODUCTION TO COMPUTER SCIENCE

Fee: \$25.00

Course Code: 520050

Pre-requisites: Algebra I & Exploring Computer Science

Introduction to Computer Science is a one-credit engaging course that explores a variety of basic computational thinking and programming concepts through a project-based learning environment. Every unit culminates in a comprehensive project and roughly 75% of student time is spent building projects and practicing the skills they are learning.

BUILDING SCIENCE ACADEMY ELECTIVES

ARCHITECTURE, CONSTRUCTION, AND MANUFACTURING

FEE: \$25.00

Course Code: 430004

Pre-requisites: None

A one-credit course that introduces students to core knowledge and skills in the areas of design, preconstruction, construction, maintenance, operations, and installation and repair which are foundational to courses related to careers in the architecture and construction and manufacturing industries. This course is not a prerequisite for entering a specific pathway.

NCCER ELECTRICAL TECHNOLOGIES 1

FEE: \$25.00

Course Code: 432501

Pre-requisites: Architecture, Construction, and Management

This is the first of 3 required one-credit courses in the Electrical Technologies Pathway. It is designed to complete all core requirements for NCCER Core credentialing and to provide students with fundamental knowledge and skills emphasizing use of hand tools, power tools, and electrical theory for use in the construction industry and required for NCCER Electrical Level I Credentialing.

NCCER ELECTRICAL TECHNOLOGIES 2

FEE: \$25.00

Course Code: 432502

Pre-requisites: NCCER Electrical Technologies 1

This is the second of 3 required one-credit courses in the Electrical Technologies pathway. It is designed to provide students with theory, practice, and skills development. Emphasis is placed on fundamental knowledge and skills in basic wiring, understanding circuitry, performing basic wiring patterns, and using the National Electric Code (NEC) leading to NCCER Electrical Level I Credentialing.

NCCER ELECTRICAL TECHNOLOGIES 3

FEE: \$25.00

Course Code: 432503

Pre-requisites: NCCER Electrical Technologies 2

This is the third of 3 required one-credit courses in the Electrical Technologies pathway. It is designed to provide students with theory, practice, and skills development. Emphasis is placed on application. Skills in intermediate wiring, circuitry, wiring patterns, and using the National Electric Code (NEC) leading to NCCER Electrical Level I Credentialing.

HEALTH SCIENCE ACADEMY ELECTIVES

FOUNDATION OF HEALTH SCIENCE

FEE: \$25.00

Course Code: 490007

Pre-requisites: None

*A one-credit foundational course that introduces students to integrated academics, employability and career development skills, legal and ethical issues, communications, safety, and life skills. This course is a prerequisite to all courses in the Health Science cluster. **This course can count as the .5 credit in Health Education.***

THERAPEUTIC SERVICES

FEE: \$25.00

Course Code: 490023

Pre-requisites: Foundation of Health Science

A one-credit course that introduces students to occupations and functions in the therapeutic services pathways. Careers in this area include nursing, medicine, physical therapy, surgical technology, respiratory therapy, emergency medical technician, and more.

PATIENT CARE TECHNOLOGY

FEE: \$25.00

Course Code: 490027

Pre-requisites: Foundation of Health Science

Patient Care Technician is a one credit course that provides students the opportunity to become effective and efficient multi-skilled healthcare providers. Students will develop a working knowledge of advanced patient care skills, vital signs, 12-lead EKG's, oxygen therapy, basic phlebotomy via simulation, and specimen collection and processing.

SPORT MEDICINE FUNDAMENTALS

FEE: \$25.00

Course Code: 490028

Pre-requisites: Foundation of Health Science

Sports Medicine Fundamentals is a one credit course that will provide an overview of the field of sports medicine as well as expose students to fundamental skills. The importance of legal and ethical concerns will be emphasized. Students will learn about career opportunities, medical terminology, safety, assessment and emergency preparedness in sports medicine.

SPORT MEDICINE INTERMEDIATE

Fee: \$25.00

Course Code: 490025

Pre-requisites: Sports Medicine Fundamentals

Sports Medicine Intermediate is a one credit course that teaches fundamental skills to include therapeutic exercise regimens within the field of sports medicine. Students will explore the study of sports medicine and the relationship to risk management and injury prevention. Students will demonstrate an understanding of anatomy and physiology, with emphasis on the musculoskeletal system. The importance of health promotion, wellness, injury and disease prevention will be emphasized. Students will examine sports medicine facilities, policies, procedures, and protocols utilized in patient care.

MEDICAL TERMINOLOGY

Fee: \$25.00

Course Code: 490033

Pre-requisites: Foundation of Health Science

A one-credit course designed for students to develop health care-specific knowledge for a career in the medical field. The course uses an integrated approach for teaching the language by incorporating medical terminology with anatomy and physiology and the disease process.

HEALTH SCIENCE INTERNSHIP

FEE: \$25.00

Course Code: 490013

Pre-requisites: Foundations of Health Science + one additional Health Science Academy elective

A one-credit course focusing on basic knowledge and skills necessary for beginning health care workers. Health Science Internship reinforces and applies knowledge learned in classroom and laboratory settings. Content Standards 1,3,4,5,6, and 9 must be taught for this one-credit course.

EMERGENCY SERVICES

FEE: \$25.00

Course Code: 410024

Pre-requisites: Fire Fighting

A one-credit course that introduces students to the emergency medical profession. Course content emphasizes safety, human structure and function, assessment of emergency clients, ethical behavior, and emergency care procedures.

INTRODUCTION TO PHARMACY

FEE: \$40.00

Course Code: 490022

Pre-requisites: Foundation of Health Science

A one-credit course that introduces students to the pharmaceutical profession. The course covers content related to the history of medicine, mathematics, technology, legal issues, and technical skills.

INTRODUCTION TO BIOTECHNOLOGY

FEE: TBD

Course Code: 490041

Pre-requisites: Foundation of Health Science

A one-credit course designed to provide an overview of the biotechnology field. This advanced senior-level course emphasizes skill development, application of scientific concepts of biomedical research and development, mendelian genetics, gene structure and function, inheritance patterns, genetic abnormalities, and the human genome project.

HUMAN BODY SYSTEMS

FEE: \$30.00

Course Code: 490043

Pre-requisites: Introduction to Biotechnology

A one-credit course that focuses on human physiology: how the body systems work together to maintain internal balance and good health.

HOSPITALITY & TOURISM ACADEMY ELECTIVES

HOSPITALITY AND TOURISM

FEE: \$40.00

Course Code: 500011

Pre-requisites: None

A one-credit foundation course designed to introduce students to the hospitality and tourism industry, the lodging industry, and culinary arts. This course is a prerequisite for Culinary Arts I.

CULINARY ARTS I

FEE: \$40.00

Course Code: 500012

Pre-requisites: Hospitality and Tourism

A one-credit course designed to introduce students to basic food production, management, and service activities in both the back and-front of the house. Emphasis is placed on sanitation, safety, and basic food production. A school-based laboratory (commercial food service kitchen with a food serving and dining area) is required for this course.

CULINARY ARTS II

FEE: \$40.00

Course Code: 500013

Pre-requisites: Culinary Arts I

A one-credit course designed to provide students with advanced experiences in food production, management, and service. A school-based laboratory (commercial food service kitchen with a food serving and dining area) is required for this course.

BAKING & PASTRY ARTS

FEE: \$40.00

Course Code: 500014

Pre-requisite: Culinary Arts II

This is a one -credit course designed to provide the principles of baking and pastry techniques. The course includes baking technologies, equipment, preparation procedures, production methods, pastry methods, chocolate and candy productions, science of bread baking, confections and desserts, showpieces, cost control, food safety, and presentation techniques to create fundamental baking to the latest pastry trends.

ADDITIONAL ELECTIVES

STUDENT AIDE

Course Code: 802106aa

Non-credit course for students in the 11th and 12th grades only.

Students must be approved by administration.

ACT PREP

Course Code: 802200ac

This course is available to 10th and 11th grade students and is designed to enhance student skills in Math and Language Arts to improve student performance on college entrance exams.

Electives that require approval from a coach/sponsor include, but are not limited to:

- Varsity Athletics (Football, Baseball, Cheerleading, Volleyball, Basketball, Softball)
- Yearbook
- Broadcast Journalism
- Band Auxiliary (Colorguard & Dance Line)