

RIVER CITY SCIENCE ACADEMY



Course Catalog 2022-2023

7565 Beach Blvd
Jacksonville, FL 32216
www.rivercityscience.org

Table of Contents

GENERAL INFORMATION	1
GRADUATION REQUIREMENTS	3
RCSA PATHWAYS	4
COURSE DESCRIPTIONS	
ENGLISH LANGUAGE ARTS	5
HEALTH AND PHYSICAL EDUCATION	7
MATHEMATICS	8
SCIENCE	10
SOCIAL SCIENCES	12
ARTS	16
WORLD LANGUAGES	17
OTHER ELECTIVES	19
DUAL ENROLLMENTS	21

CHOOSING YOUR COURSES

1. Study the courses in the course catalog and go over possible choices with your teachers and parents before you fill out your course selection.
2. Write down any questions you have for your teachers and counselor.
3. Paying close attention to course requirements outlined in the course catalog and select your courses with the online form.
4. Every effort is made to give you your top choices; however, if there is a scheduling conflict, alternate course selections must be made. If you do not choose alternate courses, they may be selected for you depends on your pathway choice.

COURSE CANCELLATION

River City Science Academy reserves the right to cancel any course due to insufficient enrollment, teacher availability and/or district funding.

SCHEDULE CHANGES

The course selection process takes place each spring. The process includes input from students, parents, teachers, counselors and administrators. The school's master schedule is built and new staff hired based on the registration requests. Students are expected to honor their commitments and to attend and complete the courses for which they register during the registration period. Student –initiated requests for schedule corrections must be made during the first week of the fall semester. All corrections regarding the spring semester must be made before the spring semester starts. Student –initiated schedule corrections will only be considered for the following reasons:

1. The student has previously earned credit for the scheduled course.
2. The student has not yet taken the prerequisite required for a scheduled course.
3. There is another course needed to stay on track toward fulfilling graduation requirements.
4. Administrative action becomes necessary because of imbalance of class loads, loss of a teaching unit, unique or unforeseen constraints.

Note: There will be NO changes made to accommodate teacher preference and academics will not be moved to accommodate electives.

ACHIEVEMENT LEVELS

Courses at River City Science Academy are provided for each student's developmental level. A multi-level structure has been established to provide for these differences and to provide for individualized instruction. Teachers may make a recommendation for a particular level. In most cases the final decision concerning course selection rests with the student and parents.

Honors, Dual-Enrollment, and Advanced Placement courses are designed for the highly motivated and focused student with above average achievement. River City Science Academy practices an open enrollment policy and encourages students to participate in rigorous, college preparatory courses.

DUAL ENROLLMENT COURSES

Dual-enrollment courses are college level courses for which a student may earn both college credit and high school credit. Dual-enrollment courses are available only to juniors and seniors. Some courses may be offered on our campus and are a part of a student's daily schedule. Other courses may be taken during the day or evening on a Florida State College at Jacksonville campus (**only seniors are eligible**). In order to take one or more dual enrollment courses, a junior or senior must meet the following requirements:

- Have an un-weighted GPA of a 3.0 or higher.
- Have an acceptable score (as determined by FSCJ) on either the SAT, ACT, or Post-Secondary Education Readiness Test (PERT). If a student does not have an SAT or ACT score when registering, he/she will be required to take the PERT.
- Be academically motivated to accept the challenge of college level work.

Students interested in taking dual-enrollment courses must work closely with their high school counselor and the dual-enrollment coordinator at FSCJ to plan their schedule accordingly.

ADVANCED PLACEMENT (AP) COURSES

AP courses are taught at a college level and each course is concluded by a comprehensive exam created by the College Board. Students who enroll in an Advanced Placement course are required to take the AP exam. In general, postsecondary credit for an AP course may be awarded to students who score a minimum of a 3 on a 5-point scale on the corresponding AP exam; however, qualifying scores may vary by university and by college within a university.

HONORS COURSES

Honors courses are developed locally by high school teachers to help meet the needs of accelerated students. Honors courses meet the same curriculum requirements as standard courses but are more challenging. Honors courses are faster paced and cover topics more in-depth. However, these courses are not considered to be equivalent to college-level work, which is why they will not earn you college credit.

GRADING SCALE

The following is the current grading scale for Duval County Schools for grades 9-12:

A	90 – 100
B	80 – 89
C	70 – 79
D	60 – 69
F	0 – 59

Students receive a letter grade for each nine-week grading period. The grade for the district-administered end of course exam is factored into the final grade for each semester.

Report cards are sent home four times each school year at the end of each nine-week grading period. Progress reports are issued at the mid-point of each grading period.

WEIGHTED COURSES

All classes designated Honors or Advanced Placement will receive weighted grades according to the following grading scale:

<u>Letter Grade</u>	<u>Quality Points</u>
A	5
B	4
C	3
D	1
F*	0*

* Weighted credit is not applied to a grade of F.

SAT AND ACT

Registration for the SAT and ACT are done online. The guidance office may have a packet for those without internet access but supplies are limited. Test dates and registration deadlines can also be found on the same websites.

- SAT Registration and Information: www.collegeboard.com
- ACT Registration and Information: www.actstudent.org.

* When registering for either test, students will need the CEEB code for River City Science Academy which is **102252**.

PSAT

The Preliminary Scholastic Aptitude Test (PSAT) is administered each October and may be administered to 9th, 10th, and 11th grade students. Students who take the examination during their junior year are eligible to enter the National Merit Scholar Competition based on their test score. Students can be recognized as semi-finalists, finalists, and/or National Merit Scholars. Students who become National Merit Scholars are often eligible for scholarships from both the National Merit organization and/or their post-secondary institution.

NATIONAL HONOR SOCIETY (NHS)

National Honor Society is a national academic honor club. Students are selected as second semester sophomores, juniors, and seniors. The basis for selection includes an unweighted 3.5 or higher cumulative grade point average, community service, character, and leadership. A student's activity in other school organizations is also considered in the selection process. For more information, contact the faculty sponsor.

BRIGHT FUTURES SCHOLARSHIP PROGRAM

The Florida Bright Futures Scholarship program consists of three scholarships funded through lottery dollars and awarded to eligible Florida high school graduates planning on continuing their education at any eligible Florida post-secondary institution. Your guidance counselor can provide you with information and requirements for each scholarship award. You can also visit the Bright Futures website at:

<http://www.floridastudentfinancialaid.org/ssfad/bf/fasrequire.htm>

FLORIDA VIRTUAL SCHOOL (FLVS)

Students have the opportunity to earn credit through the online Florida Virtual School. Students must be self-motivated and task oriented in order to successfully complete this type of course. Visit the website at **www.flvs.net** for course and enrollment information. Once a student has enrolled and determined the course that they would like to take they will need to meet with their school counselor at ACHS. Counselor approval is required to complete the registration process for FLVS.

Graduation Requirements

	24 Credit Standard Diploma Program of Study A,H, B*		18 Credit ACCEL Standard Diploma	
EN	4 credits		4 credits	
MA	2012-2013 ninth grade entry year or before	2013-2014 ninth grade entry year and thereafter	4 credits <ul style="list-style-type: none"> • Algebra I • Geometry • +2 	
	4 credits <ul style="list-style-type: none"> • Algebra I, • Geometry • Algebra 2 • +1 	4 credits <ul style="list-style-type: none"> • Algebra I, • Geometry • +2 		
SC	3 credits <ul style="list-style-type: none"> • 1 Biology • 2 sciences 		3 credits <ul style="list-style-type: none"> • 1 Biology • 2 sciences 	
SS	3 credits <ul style="list-style-type: none"> • 1 world history • 1 US History • ½ Am Gov't • ½ Econ 		3 credits <ul style="list-style-type: none"> • 1 world history • 1 US History • ½ Am Gov't • ½ Econ 	
WL	2 credits must be in the same world language			
PF	1 credit		1 credit	
PE	1 Credit H.O.P.E.			
EL	6 credits		3 credits	
Total	24 credits		18 credits	
TESTS (Passing Scores)	2012-2013 ninth grade entry year or before	2013-2014 ninth grade entry year and thereafter	2012-2013 ninth grade entry year or before	2013-2014 ninth grade entry year and thereafter
	FCAT 2.0 (grade 10) Reading FCAT Math OR Algebra 1 EOC* *based on ninth grade entry year	State Reading Assessment Algebra 1 EOC	FCAT 2.0 (grade 10) Reading FCAT Math OR Algebra 1 EOC* *based on ninth grade entry year	State Reading Assessment Algebra 1 EOC
GPA	2.0		2.0	
O n l i n e	1 course for students who enter 9 th grade in 1112 and thereafter		No requirement	

** Elective courses are subject to change. After surveys, all courses will be finalized.

ENGLISH LANGUAGE ARTS

INTENSIVE READING

100410

GRADE LEVEL (9-12)

CREDIT: 1

PREREQUISITES: NONE

Intensive Reading provides comprehensive instruction and practice using reading skills and strategies. Students explore high-interest fiction and informative texts as they build stamina and reading ability. Extensive opportunities are provided for individualized instruction from a highly-qualified reading instructor.

- *Intensive Reading is offered only as elective credit and does not replace the required English course.*

- *Required for students scoring a Level 1 AND 2 on FSA Reading*

ENGLISH 1

1001310

GRADE LEVEL (9)

CREDIT: 1

PREREQUISITES: NONE

English 1 allows students to explore a variety of literary genres to build critical thinking and writing skills. Extensive use of collaborative learning strategies and self-reflection prepare students for post-secondary academic success.

Pre-AP English 1

1001415

GRADE LEVEL (9)

CREDIT: 1

PREREQUISITES: NONE

In addition to the curriculum provided in English I, English 1 Honors students complete extensive independent reading assignments in preparation for advanced work. The fundamentals of literary analysis and critical writing necessary for success in Advanced Placement English Composition and Literature are introduced.

- *Suggested FSA Reading Level 3 or higher*

ENGLISH 2

1001340

GRADE LEVEL (10)

CREDIT: 1

PREREQUISITES: ENGLISH 1

English 2 students continue to build on their understanding of informational texts and fiction by applying the skills acquired in English I. The course combines rigorous instruction with engaging, interactive strategies and self-reflection to prepare students for post-secondary academic success.

ENGLISH 2 HONORS

1001350

GRADE LEVEL (10)

CREDIT: 1

PREREQUISITES: ENGLISH 1 HONORS

In addition to the curriculum provided in English 2, the Honors course includes extended and complex writing components, both timed and untimed, frequent analysis of literary texts, and a rigorous independent reading requirement designed to prepare students for success in Advanced Placement English Composition and Literature.

- *Suggested FSA Reading Level 3 or higher*

ENGLISH 3

1001370

GRADE LEVEL (11)

CREDIT: 1

PREREQUISITES: ENGLISH 2

English 3 provides exploration of a variety of genres from American literature, both classic and contemporary. Through collaborative strategies, project based learning, and self- reflection, students gain the fundamental skills necessary for success in post-secondary studies.

AP ENGLISH LANGUAGE

1001420

GRADE LEVEL (11)

CREDIT: 1

PREREQUISITES: ENGLISH 2 HONORS

AP English Language prepares students to apply the fundamentals of rhetorical analysis to a broad spectrum of challenging texts. Extensive reading assignments from a diversity of prose works spanning the 17th to the 21st century are required. Students complete frequent writing assignments to build skills in composition and literary analysis necessary for post-secondary work. In addition to essays, criticism, and research, students also read a survey of classic works from American Literature. This is a college-level course. Students are required to take the Advanced Placement English Language Exam in the spring and may be awarded college credit for a passing score.

- *Suggested FSA Reading Level 3 or higher and a B or higher in English 2 Honors.*

ENGLISH 4

1001400

GRADE LEVEL (12)

CREDIT: 1

PREREQUISITES: ENGLISH 3

Students continue to apply reading and collaborative strategies to a diversity of texts in English 4, with an emphasis on English literature. Students write in a variety of genres in preparation for post-secondary work or entrance into the job market.

AP ENGLISH LITERATURE

1001430

GRADE LEVEL (12)

CREDIT: 1

PREREQUISITES: AP ENGLISH LANGUAGE

AP English Literature equips students with the analytical skills necessary to explore complex works of fiction. Students read extensively from classic and contemporary masters of prose, drama, and poetry, and complete a demanding independent reading requirement. Frequent essays, both timed and researched, will be assigned to build analytical proficiency. This is a college level course. Students are required to take the AP English Literature Exam in the spring and may be awarded college credit for a passing score.

- *Suggested FSA Reading Level 3 or higher and a B or higher in AP English Language.*

HEALTH AND PHYSICAL EDUCATION

HOPE

3026010

GRADE LEVEL (10)

CREDIT: 1

PREREQUISITES: NONE

HOPE (Health Opportunities through Physical Education) develops and enhances healthy behaviors that influence lifestyle choices and student health and fitness. Major topics include: risk and benefits of varying fitness levels; development of an individual wellness plan; responsible decision making; development of an individual nutrition plan; - completion of a behavior change project; analyzing of skills-

related fitness; safety and injury prevention – (hydration, injury, violence, environmental issues, CPR); safety education practices; analyzing consumer information and community resources; mental and emotional health, including depression and suicide; stress management and coping skills; interpersonal communication; disease prevention and control; and tobacco, alcohol, and other drug use and abuse.

MATHEMATICS

INTENSIVE MATHEMATICS

1200400

GRADE LEVEL (9-12)

CREDIT: 1

PREREQUISITES: NONE

Intensive Mathematics is designed to provide concentrated practice for students who need to build fundamental math proficiency. Course work emphasizes the skills tested on the FCAT.

- Intensive Math counts as an elective credit and does not replace the required math course.

- Course may be required for students scoring a Level 1 on FCAT Math.

ALGEBRA 1

1200310

GRADE LEVEL (9)

CREDIT: 1

PREREQUISITES: NONE

Algebra 1 provides the foundation for more advanced mathematics courses. Topics include: sets, variables, structure and properties of the real number system, first-degree equations/inequalities, relations and functions, graphs, systems of linear equations and inequalities, integral exponents, polynomials, factoring, irrational numbers, radical expressions, quadratic equations and application problems.

GEOMETRY

1206310

GRADE LEVEL (9-11)

CREDIT: 1

PREREQUISITES: ALGEBRA 1

The study of geometry emphasizes critical thinking involving the discovery of relationships and their proofs. Students acquire skill in applying deductive methods to mathematical situations, including logic and reasoning, Euclidean geometry, the study of lines, planes, angles, triangles, similarity, congruence, geometric inequalities, polygons and circles, and area and volume.

GEOMETRY HONORS

1206320

GRADE LEVEL (9-11)

CREDIT: 1

PREREQUISITES: ALGEBRA 1

Geometry Honors provides an in-depth study of geometry with emphasis on the formal language of mathematics: structure of geometry, separation properties, angle concepts, triangles, quadrilaterals, proofs, perpendicularity and parallelism in a plane and in space, similar polygons, circles and spheres, constructions, area and volume, coordinate geometry, topology and transformational geometry.

- Suggested Algebra 1 EOC Level 3 or higher and a B or higher in Algebra 1.

ALGEBRA 2

1200330

GRADE LEVEL (9-12)

CREDIT: 1

PREREQUISITES: GEOMETRY

Algebra 2 continues the study of algebraic structure and provides a foundation for the application of these skills to other mathematical and scientific fields. Topics include: the review and extension of real number

system structure and properties, relations, functions and graphs, polynomials and rational expressions, quadratic equations and inequalities, polynomial functions, rational and irrational exponents, logarithms, complex numbers, and application problems. *Prerequisites: Geometry*

ALGEBRA 2 HONORS

1200340

GRADE LEVEL (9-12)

CREDIT: 1

PREREQUISITES: GEOMETRY HONORS

Algebra 2 Honors emphasizes the theory, proof, and development of formulas, as well as their practical application to a variety of settings. Topics include: algebraic structure, first-degree equations in one and two variables solved algebraically and graphically, systems of equations and inequalities, functions and relations, polynomials and rational expressions, exponents and radicals, logarithms, complex numbers, conic sections, polynomial equations, sequences and series, permutations, combinations and probability, and matrices

- *Suggested Algebra 1 EOC Level 3 or higher and a B or higher in Algebra 1.*

Math for College Algebra

1200710

GRADE LEVEL (11-12)

CREDIT: 1

PREREQUISITES: ALGEBRA 1

In Mathematics for College Algebra, instructional time will emphasize five areas: (1) developing fluency with the Laws of Exponents with numerical and algebraic expressions; (2) extending arithmetic operations with algebraic expressions to include rational and polynomial expressions; (3) solving one-variable exponential, logarithmic, radical and rational equations and interpreting the viability of solutions in real-world contexts; (4) modeling with and applying linear, quadratic, absolute value, exponential, logarithmic and piecewise functions and systems of linear equations and inequalities; (5) extending knowledge of functions to include inverse and composition.

PRE-CALCULUS

1202340

GRADE LEVEL (11-12)

CREDIT: 1

PREREQUISITES: ALGEBRA 2

Pre-Calculus is recommended preparation for AP Calculus. Major topics include: the study of algebraic, rational, polynomial, exponential, and logarithmic functions and equations, graphing of conic sections, plane trigonometry, complex numbers and vectors, polar coordinates, and equations.

AP CALCULUS AB

1202310

GRADE LEVEL (11-12)

CREDIT: 1

PREREQUISITES: PRE-CALCULUS

Advanced Placement Calculus AB is a college-level calculus course. Topics include limits, derivatives, and the study of their applications. Students are required to take the Advanced Placement Calculus AB exam in the spring and may be awarded college credit for a passing score.

AP CALCULUS BC

1202320

GRADE LEVEL (11-12)

CREDIT: 1

PREREQUISITES: AP CALCULUS AB RECOMMENDATION REQUIRED FOR THIS COURSE

This course is a college-level course covering all of the first two semesters of a college calculus program. The purpose of this course is to provide an extensive study of the general theory and techniques of calculus. Students will learn to identify and apply the properties of algebraic, trigonometric, exponential, and logarithmic functions. Students are required to take the Advanced Placement Calculus BC exam in the spring and may be awarded college credit for a passing score.

SCIENCE

MARINE SCIENCE

GRADE LEVEL (10–11-12)

Prerequisite: Biology

The purpose of this course is to provide students with an understanding of the coastlines and tidal zones, tropical ocean and reef inhabitants, and deep marine organisms. Economic implications of marine resources and the impact of pollution of marine environment will be included laboratory activities and safe laboratory techniques are an essential component of this course.

2002500

CREDIT: 1

BIOLOGY 1

GRADE LEVEL (9–10)

PREREQUISITES: NONE

Biology 1 develops an understanding of cellular biology and reproduction, basic principles of genetics, and classification & taxonomy. Additional topics include: application scientific methods, scientific measurement, laboratory safety and use of apparatus; biological changes through time; microbiology; structure and function of plants and animals; structure and function of the human body; and ecological relationships.

2000310

CREDIT: 1

BIOLOGY 1 HONORS

GRADE LEVEL (9-10)

PREREQUISITES: NONE

Biology 1 Honors provides extensive, in-depth exploratory experiences and laboratory and real-life applications in the biological sciences. Laboratory investigations, which include the use of scientific research, measurement, laboratory technologies, and safety procedures, are an integral part of this course. Topics of study include: matter, energy, and chemical processes of life; cellular biology; genetic principles, diversity, and biotechnology; levels of organization, classification & taxonomy; structure, function, reproduction of plants, animals, and microorganisms; behavior of organisms; interdependence of organisms, humans, environment; biological selection, adaptations, and changes through time.

2000320

CREDIT: 1

CHEMISTRY 1

GRADE LEVEL (10-11)

PREREQUISITES: BIOLOGY 1 & ALGEBRA 1

The primary focus of Chemistry 1 is a study of the classification and structure of matter. Major topics include: atomic theory; the periodic table of elements; chemical bonding; chemical formulas and balanced equations; chemical reactions; behavior of gases; physical changes of matter; acids, bases and salts; and energy associated with physical and chemical changes. *Prerequisites: Biology I and Algebra I*

2003340

CREDIT: 1

CHEMISTRY I HONORS

GRADE LEVEL (10-11)

PREREQUISITES: BIOLOGY 1 HONORS & ALGEBRA 1

Chemistry 1 Honors is a comprehensive course placing a strong emphasis on theory and the quantitative aspects of chemistry. Laboratory work is an integral component of the curriculum. Major topics include: atomic structure; periodic table; chemical bonding; formulas and equations; mole concept; gas laws; energy and order; reaction rates and equilibrium; solutions; acids, bases, and salts; nuclear chemistry; electrochemistry; and organic chemistry.

2003350

CREDIT: 1

- Suggested FSA Level 3 or higher and a B or higher in Algebra 1.

PHYSICS 1 **2003380**

GRADE LEVEL (11-12)

CREDIT: 1

PREREQUISITES: CHEMISTRY 1 AND GEOMETRY

Physics 1 provides opportunities to study the concepts, theories, and laws governing the interaction of matter, energy, and forces, and their applications through exploratory investigations and activities. The content includes: energy; force and motion; dynamics; wave characteristics; conservation of energy and momentum; electricity; magnetism; interactions among science, technology, and society.

- Suggested current enrollment or completion of Algebra 2 or higher.

PHYSICS 1 HONORS **2003390**

GRADE LEVEL (11-12)

CREDIT: 1

PREREQUISITES: CHEMISTRY 1 HONORS AND GEOMETRY HONORS

Physics1 Honors provides an in-depth study of the concepts, theories, and laws governing the interaction of matter, energy, and forces, and their applications through exploratory investigations and activities. Additional topics include: kinematics; dynamics; energy; work and power; heat and thermodynamics; wave characteristic;, light; electricity; magnetism; nuclear physics; and sound. This is a math- intensive course.

- Suggested FSA Level 3 or higher and current enrollment or completion of Algebra 2 Honors

ANATOMY AND PHYSIOLOGY HONORS **2000360**

GRADE LEVEL (11-12)

CREDIT: 1

PREREQUISITES: BIOLOGY 1

Anatomy and Physiology is a challenging course which explores the relationships between structures and functions of the human body. Major topics include: Cellular processes and tissues; the skeletal, muscular, nervous, cardiovascular, respiratory, digestive, urinary and reproductive systems and special senses; laboratory investigations of selected content topics; and laboratory apparatus and safety. Laboratory experiences include vertebrate dissection as well as use of slides and models.

ENVIRONMENTAL SCIENCE 2001340

GRADE LEVEL (11-12)

CREDIT: 1

PREREQUISITES: BIOLOGY 1

Environmental Science is a broad interdisciplinary class which will incorporate many different sciences as well as social sciences. Students will study how humans impact the environment, both directly and indirectly, and how technology plays a role in both causing and solving environmental problems. Students will also learn how species interact with each other as well as their habitats. Labs exercises play an integral role in this understanding and being able to apply these concepts.

AP ENVIRONMENTAL SCIENCE **2001380**

GRADE LEVEL (11-12)

CREDIT: 1

PREREQUISITES: BIOLOGY 1, CHEMISTRY 1 & ALGEBRA 2

Advanced Placement Environmental Science is a college level study of the interaction of man with the natural environment. Major topics include fundamental principles and concepts about the interdependence of earth's systems; population dynamics; distribution, ownership, and use degradation of renewable and nonrenewable resources; environmental quality; global changes and their consequences; balanced

decision making involving the natural environment and society; and choices impacting the future of the natural environment. This is a rigorous course requiring strong analytical skills.

- Suggested FSA Level 3 or higher

Zoology**2000410**

Grade Level: (10-11-12)

CREDIT: 1

Prerequisites: Biology 1

The course gives an introduction to zoology, with particular emphasis on the morphology and systematics of both vertebrates and invertebrates. In addition, the students should acquire basic knowledge in ethology, evolution, and human ecology (including an introduction to the biosphere and biodiversity).

AP BIOLOGY**2000340**

GRADE LEVEL (11-12)

CREDIT: 1

PREREQUISITES: BIOLOGY 1, CHEMISTRY 1 & ALGEBRA 2

AP Biology/Biology 2 is a college level course that provides an in-depth study of cellular biology, biochemistry, and genetics. Additional topics include: ecology; taxonomy; botany; zoology; and human anatomy and physiology. Extensive lab work is required. This is a rigorous course requiring strong analytical skills.

- *Suggested FCAT Level 3 or higher*

AP CHEMISTRY**2003370**

GRADE LEVEL (11-12)

CREDIT: 1

PREREQUISITES: CHEMISTRY 1 & ALGEBRA 2

AP Chemistry/Chemistry 2 is a college level course which provides an in-depth study of the development and application of chemistry principles and concepts. Extensive lab work is required. Course topics include: atomic theory and structure; chemical bonding; molecular model theory; nuclear chemistry; states of matter; chemical reactions; equations; chemical equilibrium; reaction rates; thermodynamic processes; systematic nomenclature; and the interactions of chemistry, technology, and society. This is a rigorous course requiring strong analytical and mathematical skills.

- *Suggested FSA Level 3 or higher*

AP PHYSICS 1**2003421**

GRADE LEVEL (11-12)

CREDIT: 1

PREREQUISITES: PHYSICS 1 AND ALGEBRA 2

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through inquiry-based investigations as they explore these topics: kinematics, dynamics, circular motion and gravitation, energy, momentum, simple harmonic motion, torque and rotational motion, electric charge and electric force, DC circuits, and mechanical waves and sound.

- *Suggested FSA Level 3 or higher*

SOCIAL SCIENCES

AP HUMAN GEOGRAPHY**2103400**

GRADE LEVEL (9)

CREDIT: 1

PREREQUISITES: NONE

Advanced Placement Human Geography provides an in-depth understanding of the discipline of geography, including its tools, themes, and concepts. Students learn to interpret a variety of maps and geographic technologies, including geographic information systems (GIS) and satellite-produced imagery. Additional topics explored include: Critical analysis of geographic problems on local, national, and global scales; the diversity of global cultures, including their cultural and economic characteristics; understanding how cultural landscapes are

created and how they change over time. This is a rigorous course requiring strong analytical and writing skills. Students are required to take the Advanced Placement Human Geography Exam in the spring and may be awarded college credit for a passing score.

- *Suggested FSA Reading Level 3 or higher*

WORLD HISTORY

2109310

GRADE LEVEL (10)

CREDIT: 1

PREREQUISITES: NONE

World History is the study of the origin and development of contrasting civilizations after the fall of the Western Roman Empire in 476. Major topics include: comparative views of history; an analysis of cultural universals; the role of religion in historical change; varieties of contrasting political theories and philosophies; the role of science and technology as a social catalyst; nationalism as a cohesive force in history; the diversity of economic thought and practices in the world; an analysis of the influence of the major figures and events concerning the historical development of our present world order. Students are required to complete a project for The National History Day contest during the first semester.

AP WORLD HISTORY

2109420

GRADE LEVEL (10)

CREDIT: 1

PREREQUISITES: NONE

Advanced Placement World History is a college level course which explores the evolution of global processes and contacts in interaction with different types of human societies.

Understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. The course emphasizes relevant factual knowledge deployed in conjunction with leading interpretive issues and types of historical evidence. Focused on the last thousand years of the global experience, the course builds on an understanding of cultural, institutional, and technological precedents that along with geography, set the human stage prior to 1000 CE. The explicit discussion of subsequent historical periods forms the organizing principle for dealing with change and continuity from that point to the present. Specific themes provide further organization to the course. This is a rigorous course requiring strong analytical and writing skills. Students are required to take the Advanced Placement World History Exam in the spring and may be awarded college credit for a passing score.

- *Suggested FSA Reading Level 3 or higher*

U.S. HISTORY

2100310

GRADE LEVEL (11)

CREDIT: 1

PREREQUISITES: NONE

American History explores the effects of geographic and historic relationships as synthesizing forces of American culture through the centuries. Additional topics include: the continuous westward expansion of American settlements; the origin of American ideals; the American colonial experience; the American Revolution and the Declaration of Independence; the formation of the Constitution and the federal system; the interpretive evolution of the Constitution over two centuries; sectional schisms in American life; the Civil War and Reconstruction; the technological and urban transformation of the country; the evolution of American

lifestyles and ideals over the centuries; American foreign policy development; the cyclical development of the American economy; and contemporary and domestic and foreign issues.

AP UNITED STATES HISTORY

2100330

GRADE LEVEL (11)

CREDIT: 1

PREREQUISITES: NONE

Advanced Placement United States History is a college level course which develops the analytical skills and factual knowledge necessary to critically interpret seminal issues in United States history. Students learn the tools of historical analysis through assessment of source materials, including their relevance to a given interpretive problem, their reliability, and their significance. Students also learn to weigh evidence and interpretations presented in historical scholarship. AP U.S. History strikes a balance between teaching factual knowledge and developing the skills of critical analysis necessary for academic discourse. This is a rigorous course requiring strong critical reasoning and writing skills. Students are required to take the Advanced Placement United States History Exam in the spring and may be awarded college credit for a passing score.

- *Suggested FSA Reading Level 3 or higher*

U.S. GOVERNMENT

2106310

GRADE LEVEL (12)

CREDIT: .5

PREREQUISITES: NONE

The primary focus of American Government is the analysis of the documents which shape American political traditions (the *Declaration of Independence*, the *Constitution*, and *The Bill of Rights*). The course will also explore: comparison of the three branches of government at the local, state & national levels; understanding of the evolving role of political parties & interest groups in determining government policy; the evolution & interpretation of the rights & responsibilities of citizens in a democratic state; the importance of civic participation in the democratic political process; and a discussion of Florida politics, governmental structure, & Constitution.

- *Paired with Economics or AP Macroeconomics*

AP U.S. GOVERNMENT & POLITICS

2106420

GRADE LEVEL (12)

CREDIT: .5

PREREQUISITES: NONE

Advanced Placement U.S. Government and Politics is a college level course that involves both the studies of general concepts used to interpret American politics and the analysis of specific case studies. It requires familiarity with the various institutions, groups, beliefs and ideas that make up the American political reality. The major areas of study are: constitutional underpinnings of American government; political beliefs and behaviors; political parties and interest groups; institutions and policy process of national government; civil rights and civil liberties. This is a rigorous course requiring strong analytical and writing skills. Students are required to take the Advanced Placement U.S. Government and Politics Exam in the spring and may be awarded college credit for a passing score.

- *Paired with Economics or AP Macroeconomics*

- *Suggested FSA Level 3 or higher*

ECONOMICS

2102310

GRADE LEVEL (12)

CREDIT: .5

PREREQUISITES: NONE

Economics explores the use of economic reasoning and principles to reach decisions in the market place. Major topics include: the role and impact of economic wants; productive resource; scarcity and choices; opportunity costs and trade-offs; economic incentives; specialization; absolute and comparative advantage; division of labor; interdependence; market function; savings and investment; the role of the citizen as producer, consumer and decision-maker; credit and consumerism; the role and function of government policy; the roles of money, financial institutions and labor; distinctions between micro and macroeconomic problems; and the similarities and differences of other economic systems.

- *Paired with U.S. Government or AP U.S. Government & Politics*

AP MACROECONOMICS**2102370**

GRADE LEVEL (12)

CREDIT: .5

PREREQUISITES: NONE

Advanced Placement Macroeconomics is a college level course which provides a foundation in the fundamental concepts of the American mixed economic system. Major topics include: Analysis of the various aspects of the gross national product and its value as an economic barometer; an examination of aggregate supply in relation to productive capacity and consumption; the components of aggregate demand; issues related to unemployment; inflation and deflation; the role of the Federal Reserve System; the roles of the President and

Congress in establishing the nation's fiscal policy; international trade; application of the basic methodology associated with the study of macroeconomics. This is a rigorous course requiring strong analytical, graphing, and writing skills. Students are required to take the Advanced Placement Macroeconomics Exam in the spring and may be awarded college credit for a passing score.

- Paired with American Government or AP U.S. Government & Politics

- Suggested FSA Level 3 or higher

PSYCHOLOGY**2107300**

GRADE LEVEL (10-12)

CREDIT: .5

PREREQUISITES: NONE

Through the study of psychology, students acquire an understanding of and an appreciation for human behavior, behavioral interaction, and the progressive development of individuals. Topics include: major theories and orientations of psychology; methodology; memory and cognition; mental health; human growth and development; personality; abnormal behavior; psychological therapies; and stress/coping strategies.

AP PSYCHOLOGY**2107350**

GRADE LEVEL (11-12)

CREDIT: 1

PREREQUISITES: NONE

Through the study of psychology, students acquire an understanding of human behavior, behavior; how we think, act, and feel. Major topics include: history, theoretical approaches, and research methods; the history of psychology as a science; the relationship between biology and behavior; different states of consciousness; differences between learned and unlearned behavior; the storage, recovery and use of sensory input; the forces that influence the strength and direction of behavior; the physical, cognitive, social, and moral dimensions of development; major theories of personality; definition, categories and diagnosis of abnormal personalities; therapeutic approaches to the treatment of mental disorders; impact of social factors on behavior. This is a rigorous course requiring strong reading, analytical and writing skills. Students are required to take the Advanced Placement Psychology Exam in the spring and may be awarded college credit for a passing score.

AP MICROECONOMICS**2102360**

GRADE LEVEL (12)

CREDIT: .5

PREREQUISITES: NONE

Advanced Placement Microeconomics is a college level course providing a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the larger economic system. Major topics include: analysis of the circular flow of resources, goods, services and money in markets; product and factor markets; supply and demand; evaluation and analysis of market structures; functional and personal distribution of income; market failure and public policy response; the impact of the role of government in the American economy from historical and contemporary perspectives; international trade; application of the basic methodology

associated with the study of microeconomics.

This is a rigorous course requiring strong analytical, graphing, and writing skills. Students are required to take the Advanced Placement Microeconomics Exam in the spring and may be awarded college credit for a passing score.

- *Suggested FSA Level 3 or higher*

Holocaust

2109430

GRADE LEVEL (11-12)

CREDIT:.5

PREREQUISITES: NONE

The grade 9-12 Holocaust course consists of the following content area strands: American History, World History, Geography, Humanities, Civics and Government. The primary content emphasis for this course pertains to the examination of the events of the Holocaust (1933-1945), the systematic, planned annihilation of European Jews and other groups by Nazi Germany. Content will include, but is not limited to, the examination of twentieth century pogroms and of twentieth century and twenty-first century genocides, investigation of human behavior during this period, and an understanding of the ramifications of prejudice, racism, and stereotyping.

African American History

2100335

GRADE LEVEL (11-12)

CREDIT:.5

PREREQUISITES: NONE

The grade 9-12 African-American History course consists of the following content area strands: World History, American History, Geography, Humanities, Civics and Government. The primary content emphasis for this course pertains to the study of the chronological development of African Americans by examining the political, economic, social, religious, military and cultural events that affected the cultural group. Content will include, but is not limited to, West African heritage, the Middle Passage and Triangular Trade, the African Diaspora, significant turning points and trends in the development of African American culture and institutions, enslavement and emancipation, the Abolition, Black Nationalist, and Civil Rights movements, major historical figures and events in African-American history, and contemporary African-American affairs.

ARTS

2-D ART STUDIO

0101300

GRADE LEVEL (9–12)

CREDIT: 1

PREREQUISITES: NONE

2D Art Comprehensive is for the beginning art student, providing an introduction to two-dimensional art elements and principles through basic drawing, design and composition.

Design principles and art historical examples will be used to help the student develop an understanding of basic color theory, perspective, and observational skills.

AP ART HISTORY

0100300

GRADE LEVEL (11-12)

CREDIT: 1

PREREQUISITES: NONE

Advanced Placement Art History introduces students to the appreciation of works of art, the critical examination of works of art, and to major forms of expression in western art from 1400 to the present.

This is a college-level course. Students are required to take the Advanced Placement Art History Exam in the spring and may be awarded college credit for a passing score.

3-D ART STUDIO

0101330

GRADE LEVEL (9–12)

CREDIT: 1

PREREQUISITES: NONE

3D Art Design is a studio project orientated class exploring different media areas of 3-Dimensional and Graphic design. The emphasis of this course is to expose students to 3D art mediums and to build their creative skills through the elements and principles of design.

WORLD LANGUAGES

Turkish 1

0716300

GRADE LEVEL (9-12)

CREDIT: 1

PREREQUISITES: NONE

Turkish 1 introduces students to the target language and its culture. The student will develop communicative skills in all 3 modes of communication and cross-cultural understanding. Emphasis is placed on proficient communication in the language. An introduction to reading and writing is also included as well as culture, connections, comparisons, and communities.

Turkish 2

0716310

GRADE LEVEL (10-12)

CREDIT: 1

PREREQUISITES: Turkish 1

Turkish 2 reinforces the fundamental skills acquired by the students in Turkish 1. The course develops increased listening, speaking, reading, and writing skills as well as cultural awareness. Specific content to be covered is a continuation of listening and oral skills acquired in Turkish 1. Reading and writing receive more emphasis, while oral communication remains the primary objective. The cultural survey of the target language-speaking people is continued.

Turkish 3 Honors

0716320

GRADE LEVEL (11-12)

CREDIT: 1

PREREQUISITES: TURKISH 2

Turkish 3 provides mastery and expansion of skills acquired by the students in Turkish 2. Specific content includes, but is not limited to, expansions of vocabulary and conversational skills through discussions of selected readings. Contemporary vocabulary stresses activities which are important to the everyday life of the target language-speaking people.

Turkish 4 Honors

0716330

GRADE LEVEL (12)

CREDIT: 1

PREREQUISITES: TURSKISH [3]

Turkish 4 expands the skills acquired by the students in Turkish 3. Specific content includes, but is not limited to, more advanced language structures and idiomatic expressions, with emphasis on conversational skills. There is additional growth in vocabulary for practical purposes, including writing. Reading selections are varied and taken from the target language newspapers, magazines, and literary works.

SPANISH 1**0708340**

GRADE LEVEL (9-12)

CREDIT: 1

PREREQUISITES: NONE

Spanish 1 enables students to begin to acquire proficiency in Spanish through a linguistic, communicative, and cultural approach to language learning. Emphasis is placed on the development of listening, speaking, reading, and writing skills and on acquisition of the fundamentals of applied grammar. Cross-cultural understanding is fostered, and real-life applications are emphasized throughout the course.

SPANISH 2**0708350**

GRADE LEVEL (10-12)

CREDIT: 1

PREREQUISITES: SPANISH 1

Spanish 2 expands listening and oral skills previously acquired in the study of Spanish 1. The primary objective of the course is effective oral communication with additional emphasis on reading and writing, and connections between the Spanish language and culture and other disciplines.

SPANISH 3**0708360**

GRADE LEVEL (11-12)

CREDIT: 1

PREREQUISITES: SPANISH 2

Spanish 3 enables students to enhance proficiency in Spanish through a linguistic, communicative, and cultural approach to language learning. There is continued emphasis on the development of listening, speaking, reading, and writing skills. Experiences with Spanish literature are broadened, cross-cultural understanding is fostered, and real-life applications are emphasized throughout the course. Students are encouraged to develop proficiency in the conversational expression of feelings, ideas, and opinions in Spanish, social interaction patterns within Spanish-speaking culture(s), and connections between the Spanish language and other disciplines.

SPANISH 4**0708370**

GRADE LEVEL (11-12)

CREDIT: 1

PREREQUISITES: SPANISH 3

This course continues to build on the fundamentals of the language, to enhance the proficiency and to expand the study of the Hispanic culture, using Spanish as the language of instruction. Emphasis is on oral communication with grammar, vocabulary and Hispanic culture presented using interactive activities.

AP SPANISH LANGUAGE**0708400**

GRADE LEVEL (11-12)

CREDIT: 1

PREREQUISITES: SPANISH 4

Advanced Placement Spanish Language develops oral and written fluency in Spanish. Major areas of study include: the comprehension of formal and informal spoken Spanish; proficiency in contemporary Spanish vocabulary and syntax allowing for the accurate reading of newspaper and magazine articles, as well as of modern Spanish and Hispanic-American literature; composition of expository passages; and the expression of ideas orally with accuracy and fluency. This is a college-level course. Students are required to take the Advanced Placement Spanish Language Exam in the spring and may be awarded college credit for a passing score.

OTHER ELECTIVES

AP Capstone Research**1700510**

GRADE LEVEL (11-12)

CREDIT: 1

PREREQUISITES: AP Seminar

AP Research, the second course in the AP Capstone experience, allows students to deeply explore an academic topic, problem, issue, or idea of individual interest. Students design, plan, and implement a yearlong investigation to address a research question. Through this inquiry, they further the skills they acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. Students reflect on their skill development, document their processes, and curate the artifacts of their scholarly work through a process and reflection portfolio. The course culminates in an academic paper of 4,000–5,000 words (accompanied by a performance, exhibit, or product where applicable) and a presentation with an oral defense.

AP Capstone Seminar**1700500**

GRADE LEVEL (10-11)

CREDIT: 1

PREREQUISITES: None

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational, literary, and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments.

- Suggested FSA 3 level or higher

Critical Thinking and Skills**1700370**

GRADE LEVEL (9-12)

CREDIT: .5

PREREQUISITES: NONE

This course is designed to develop skills related to critical thinking, learning and problem solving, enabling students to enhance their performance in both academic and non-academic areas. Strategies for acquiring, storing and retrieving information, time management and organizational skills, critical thinking operations and processes, strategies for oral and written communication, and problem solving skills including test taking skills are an integral part of this course.

Digital Information Technology**8207310**

GRADE LEVEL (9-12)

CREDIT: 1

PREREQUISITES: NONE

This course is designed to provide a basic overview of current business and information systems and trends, and to introduce students to fundamental skills required for today's business and academic environments. Emphasis is placed on developing fundamental computer skills. The intention of this course is to prepare students to be successful both personally and professionally in an information based society. Digital Information Technology includes the exploration and use of: databases, the internet, spreadsheets, presentation applications, management of personal information and email, word processing and document manipulation, HTML, web page design, and the integration of these programs using software that meets industry standards. After successful completion of this core course, students will have met Occupational Completion Point A, Information Technology Assistant - SOC Code 15-1151.

Fitness Lifestyle Design**1501310**

GRADE LEVEL (9-12)

CREDIT: .5

PREREQUISITES: NONE

The purpose of the Fitness Lifestyle Design Course is to enable students to extend their knowledge of fitness concepts; design, implement, and evaluate a personal fitness program; and develop an individualized level of health-related fitness.

Foundation of Web Design

GRADE LEVEL (9-12)

PREREQUISITES: NONE

9001110

CREDIT: 1

This course is designed to provide students with the fundamentals of website creation practices by developing basic skills in HTML5 (Hypertext Markup Language) and CSS (Cascading Style Sheets) coding. ... In addition to learning HTML and CSS, students will learn WordPress.

DUAL ENROLLMENT

STRATEGIES FOR SUCCESS IN COLLEGE, CAREER AND LIFE (SLS 1103)

GRADE LEVEL (11-12)

HS CREDIT: .5 (3 College hours)

PREREQUISITES: *MUST MEET QUALIFICATION FOR DUAL ENROLLMENT WHICH REQUIRES A STUDENT GPA OF 3.0*

Strategies for Success in College, Career and Life (SLS1103 is a dual-enrollment class (a joint partnership with Florida State College of Jacksonville – FSCJ) that is designed to assist students in the transition to college. In addition to gaining greater proficiency in specific study strategies, such as test-taking, note-taking, and time management, students will gain a better understanding of the experiential challenges that await them in college. Specifically, students will gain familiarity with non-academic strategies important to life in college, such as interpersonal skills in a new environment, non-academic campus and community resources, campus technology resources, and how to maintain good health and well-being while attending college. Students will also begin work on their college application portfolio, which includes research on potential colleges and majors as well as their college entrance essays.

ENGLISH COMPOSITION I (FSCJ -ENC 1101)

GRADE LEVEL (11-12)

HS CREDIT: 1 English credit (3 College hours)

PREREQUISITES: *MUST MEET QUALIFICATION FOR DUAL ENROLLMENT WHICH REQUIRES A STUDENT GPA OF 3.0*

This course embodies the fundamentals of effective expression with emphasis on the various forms of expository writing, logical and imaginative thinking, and reading for understanding. The course provides instruction in sentence structure, diction, organization of short essays, correct usage of standard American English documentation skills, and writing with sources. This course includes reading and writing competencies.

ENGLISH COMPOSITION II (FSCJ -ENC 1102)

GRADE LEVEL (11-12)

HS CREDIT: 1 English credit (3 College hours)

PREREQUISITES: *ENC 1101 with a grade of "C" or better*

This course focuses on understanding and writing about texts. The student will develop a proficiency in evaluating written, visual and filmic texts and in writing analytically about these texts. This course provides a solid introduction to research writing as well as writing skills. This course includes reading and writing competencies.

LITERATURE IN THE HUMANITIES (FSCJ -LIT 2000)

GRADE LEVEL (11-12)

HS CREDIT: 1 English credit (3 College hours)

PREREQUISITES: *ENC 1101 with a grade of "C" or better*

Literature in the Humanities is an introduction to the study of the characteristics, conventions, and socio-historical contexts of the major literary forms, including the analysis and interpretation of literary elements and devices, and the application of literary theory and criticism. This course is designed to encourage a deep appreciation of literature, hone critical thinking skills, and to illustrate the importance of literature as an expression of the human cultural experience.

INTERMEDIATE ALGEBRA (FSCJ -MAT 1033)

GRADE LEVEL (11-12)

HS CREDIT: .5 Math credit (4 College hours)

PREREQUISITES: *MUST MEET QUALIFICATION FOR DUAL ENROLLMENT WHICH REQUIRES A STUDENT GPA OF 3.0*

The major topics include sets and real numbers, linear equations and inequalities with applications, polynomials and factoring, algebraic fractions, exponents, roots and radicals, quadratic equations, relations and functions, graphs and systems of linear equations with applications.

COLLEGE ALGEBRA (FSCJ -MAC 1105)

GRADE LEVEL (11-12)

HS CREDIT: 1 Math credit (3 College hours)

PREREQUISITES: *MAT 1033 with a grade of "C" or better, or satisfactory score on the placement test.*

The major topics included in this course are linear equations and inequalities; quadratic equations and inequalities; relations and functions; graphs; systems of equations and inequalities; exponential and logarithmic functions; and applications. A review of algebraic techniques is also included in this course as well as a review of polynomials, factoring, exponents, roots and radicals.

PRECALCULUS ALGEBRA (FSCJ -MAC 1140)

GRADE LEVEL (11-12)

HS CREDIT: 1 Math credit (4 College hours)

PREREQUISITES: *MAC 1105 with a grade of "C" or better, or satisfactory score on the placement test.*

The major topics included in this course are linear equations and inequalities, quadratic equations and inequalities, relations, functions and graphs, exponential and logarithmic functions, systems of equations and inequalities, higher degree polynomial equations, matrices and determinants, applications, sequences, series and the binomial theorem, and mathematical proof. A review of algebraic techniques and operations as well as a review of exponents, radicals, complex numbers and absolute value is also included in this course.

INTRO TO EDUCATION TECHNOLOGY (UNF -EME 2040)

GRADE LEVEL (12)

HS CREDIT: 1 Elective credit (3 College hours)

PREREQUISITES: *MUST MEET QUALIFICATION FOR DUAL ENROLLMENT WHICH REQUIRES A STUDENT GPA OF 3.0*

Students will learn the application of instructional design principles for the use of technology to enhance the quality of teaching and learning in the classroom. The course includes hands-on experience with educational media, emerging technologies, and hardware, software, and peripherals for the personal computer as well as data-driven decision-making processes. Students also learn the identification of appropriate software for classroom applications, classroom procedures for integrating technologies with emphasis on legal and ethical use, and effective instructional strategies for teachers and students in regard to research, analysis, and demonstration of technology. Students will be provided an overview of the Florida Educator Accomplished Practices, Sunshine State Standards, the Professional Educator Competencies, and the National Educational Technology Standards.

INTRO TO LEADERSHIP (UNF -LDR 3003)

GRADE LEVEL (12)

HS CREDIT: 1 Elective credit (3 College hours)

PREREQUISITES: *MUST MEET QUALIFICATION FOR DUAL ENROLLMENT WHICH REQUIRES A STUDENT GPA OF 3.0*

The course introduces participants to the major theories of leadership and their application in personal and

professional settings. Participants engage in self-reflective and applied learning activities that allow them to draw upon their personal characteristics and experiences to make connections between class work and their own developing leadership style.