LIBERTY MAGNET HIGH SCHOOL

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INTRODUCTION

This guide outlines graduation requirements, scheduling requirements, course summaries, and other important information. We strongly advise all students to seek the counsel of their parents and their Liberty counselor and teachers before selecting courses for the coming year. **Students in all grades are required to schedule eight classes.** Each student must take an English, science, math, and social studies class each year. All honors (H), dual enrollment (DE), and advanced placement (AP) courses carry one extra quality point for students who earn grades of "C" or above used to determine a student's grade point average. We strongly recommend that 9th-grade students allow for adjustment to high school when scheduling courses. To be considered for honors, advanced, and/or upper-level classes, 9th-grade students must provide documentation of readiness or eligibility (Liberty placement test scores, overall GPA, subject area GPA, reading stanine on national standardized tests.) The Liberty math and spanish departments strongly recommend placement based on a department administered proficiency exam. Liberty follows a rigorous college preparatory curriculum. Students who follow the recommended placement historically score higher on the ACT and are more successful at Liberty. Liberty is a college-preparatory magnet high school and we take pride in providing a quality education for our students. We expect our students to earn more than the minimum requirements for graduation. At the end of four years, our students will have a total of 32 units of credit including up to 8 elective units in Engineering, Biomedical, Digital Media,or Computer Science.

MINIMUM REQUIREMENTS FOR TOPS UNIVERSITY DIPLOMA

Requirements are subject to change per state guidelines. See LouisianaBelieves.com for more info. The list encompasses course offerings at Liberty.

English (4 Units)
Shall be English I / English I Honors; English II / English II Honors; English III or AP English Language; and English IV or AP English Literature

Mathematics (4 Units)
Shall be Algebra I / Algebra I Honors, Geometry / Geometry Honors, Algebra II / Algebra II Honors. The remaining unit shall come from the following: Algebra III, Advanced Math I/PreCalculus Honors, Calculus and Statistics

Science (4 Units)
Shall be Biology and Chemistry. The remaining units shall come from the following: Physics I, Biology II, Chemistry II, or AP Environmental Science

Social Studies (4 units)
Shall be Civics or AP Government, and US History; two units from the following: AP Human Geo.; World History; African American Studies; or AP Psychology

PE (1½ units) and Health Education (½ unit)
Shall be 1 unit of PE I and ½ unit of PE II plus ½ unit of Health Education. JROTC I and II may be used to meet the PE and Health Education requirements provided the requirements in Section 2347 of Bulletin 741 are met.

Foreign Language (2 units)
Shall be 2 units in the same foreign language.

Financial Literacy (1 unit) (Class of 2028 and beyond)

Arts (1 unit)

Art, Band, Choir, Theatre, Fine Arts Survey, Photography, Engineering Design/Development, Dance

Electives (3 units)/ 2 units (class of 2028 and beyond)

TOTAL (24 units)

THE STATE BOARD OF ELEMENTARY AND SECONDARY EDUCATION (BESE) LEAP 2025 EXAM POLICY EXPLAINS:

In addition to completing a minimum of Carnegie Units of credit, students must pass required LEAP 2025 Tests in the following categories:

Algebra I/Geometry English I/English II Biology/U.S. History

Biology/Civics (Class of 2028 and beyond)

TOPS

Louisiana Tuition Opportunity Programs for Students is a comprehensive program of state scholarships and assistance programs. Specific courses, grade point averages, ACT scores and other eligibility requirements are necessary for this program. Beginning with the class of 2018, the calculation of the TOPS Core Curriculum GPA will use a Five point scale for grades earned in AP and Dual Enrollment courses.

COUNSELING

A counselor is assigned to students at Liberty to help them during their high school career. A student may schedule a conference with a counselor for any number of reasons: scheduling, career counseling, college and scholarship consulting, testing, written recommendations and references, and personal problems. Strict confidentiality is maintained except when there is imminent personal danger or threat to others. Counselors are always available for consultation and guidance. Students also have access to a School Social Worker by referral from the school counselor.

ACT

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

INDIVIDUAL GRADUATION PLAN

Each student shall develop, with the input of his/ her family, an Individual Graduation Plan to include a sequence of courses that is consistent with the student's stated goals for their four years in high school and one year after graduation. Each student's Five Year Educational Plan shall be reviewed annually by the student, parent, and counselor and revised as needed.

SCHOLASTIC HONOR POLICY

The Liberty Magnet High School Honor and Academic Policies will be strictly enforced.

FEES

The school fee of $85 is due at orientation and is used to support administrative functions, technology, and schoolwide instruction. An additional Senior fee is due at orientation and is used to cover costs associated with conducting the graduation ceremony.

SCHEDULING: SELECTION AND CHANGES

The selection of teachers is not permitted at any time. Classes may be changed by the principal or designee in order to balance or to change a student who has previously passed a course or to meet graduation or college entrance requirements or as an intervention based on the current course change policy. Students may NOT change courses once school has started.

ADVANCED PLACEMENT COURSES

AP Courses are rigorous courses to give high school students the opportunity to experience college course material with the potential to earn college credit while still in high school. Students should be college-bound with a good work ethic. Students are expected to take the AP Exam at the end of the course. The $99 AP Exam Fees are set by College Board, the AP Exam provider. Honors requirements and teacher recommendations are required. For more info about AP: testing samples, scoring of exams, fees, and reduced fee opportunities, please refer to www.collegeboard.org/. **Students enrolled in AP Courses are required to take the AP Exam.**

CLEP TEST

In some courses, students may have the opportunity to take the CLEP exam to earn college credit. CLEP is also a College Board product that awards students college credit to institutions who recognize the CLEP test. The CLEP exam fee is $97 unless the student earns a waiver. CLEP exams are multiple choice tests that do not have written portions.

DUAL ENROLLMENT COURSES

Dual Enrollment courses provide students the opportunity to receive college credit while still in high school. Students must complete all of the course work required for the college course in order to receive the credit. Dual Enrollment has strict prerequisites, noted within the course descriptions that must be met for enrollment. Students must meet the Board of Regents and University requirements to be eligible for Dual Enrollment courses. Incoming 9th grade students are universally eligible for DE under the Early College Academy Model (Pathways to Bright Futures).

HONORS COURSES

Courses listed as honors will earn an additional quality point. Honors courses are more rigorous and require students to be self-directed learners who can keep up with a faster-paced, more content enriched course. Students must earn a Mastery or Advanced score on the LEAP assessment to qualify for placement in an honors course.

Grading Scales

Regular Courses	Quality Points	Honors AP/Dual Enrollment *extra QP*	Quality Points
90-100 = A	4	90-100 = A	5
80-89 = B	3	80-89 = B	4
70-79 = C	2	70-79 = C	3
60-69 = D	1	60-69 = D	1
59-0 = F	0	59-0 = F	0

MAGNET ADMISSIONS/STATUS

Students must maintain a cumulative GPA of 2.5 to remain enrolled at Liberty Magnet High School. Students who drop below a 2.5 will be placed on Academic Probation for one semester. At the end of probation a student will either improve their cumulative GPA to meet the minimum requirement or will have their magnet status revoked at the end of the year, sending the student back to their home school. **Students who fail a core course must recover the credit in summer school prior to returning the next school year. Students who fail STEM courses will be required to retake them in place of their free elective the following year.**

COURSE OFFERINGS:

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

Below is a course matriculation matrix for students at Liberty Magnet High School. STEM Core requirements may overlap with AP courses, opening more opportunities for choice in the course selection process during the Junior & Senior years.

School counselors should be consulted at each step of the scheduling process. It is imperative that students and parents work with counselors to develop a quality Individual Graduation Plan (IGP) to ensure graduation and STEM pathway requirements are met while also opening up opportunities for students to explore a variety of courses over the four year period.

Free Electives are open for students to take any grade-level appropriate course. AP courses are available to all students with some foundational remediation opportunities available. Dual enrollment eligibility is determined by the Board of Regents and the sponsoring university/college. Students who do not meet Dual Enrollment requirements will not be able to register for the course. Students will not be removed from courses during the year, making the spring course selection process extremely important.

LMHS COURSE PROGRESSION

	Freshman	Sophomore	Junior	Senior
English Core	English I or English I Honors	English II English II Honors	English III AP Lang and Comp	English IV AP Literature
Math Core	Algebra I Algebra I Honors	Geometry or Geometry Honors	Algebra II or Algebra II Honors	PreCalc / Adv Math AP Calculus (A/B;B/C) Algebra III AP Statistics
Science Core	Physical Science or Physical Science Honors	Biology I Biology I Honors	Chemistry Chemistry Honors	Physics AP Physics Biology II AP Chemistry II AP Env Science / AP
Social Studies Core	World Geography AP Human Geography	US History AP US History	Civics AP Government	African-Amer. Hist or World History or AP Euro History
Grad. Req.	Phys Ed I or JROTC I or Cyber	Phys Ed II/Health or JROTC II or Cyber	Foreign Language	Foreign Language
Electives	STEM Pathway Course	STEM Pathway Course	Financial Literacy**	STEM Pathway Course
Electives	Free Elective	Free Elective	STEM Pathway Course	Free Elective
Electives	Free Elective	Free Elective	ACT Prep *(based on PreACT Scores)* or Free Elective	Free Elective

***Beginning with the Freshmen Cohort 24-25, students must take and pass Financial Literacy as a requirement for graduation.**

ENGLISH

1st Level	2nd Level	3rd Level	4th+ Level
English I English I Honors	English II English II Honors	English III AP Lang and Comp. ENGL 1013/ENGL 2133	English IV AP Literature and Comp. English 1023/2313 DE

English I / English I Honors (120331)
This course focuses on developing students' close-reading skills by analyzing and discussing fiction and non-fiction texts from various time periods, places, and cultures of the world. Students will read and discuss short stories, articles, essays, poems, drama, and a novel. The course includes instruction in grammar and writing with an emphasis on planning, organizing, and writing paragraphs and essays and supporting claims with evidence, and research skills are introduced. Students must earn a Mastery or Advanced score on the LEAP assessment to qualify for placement in an honors course.

English II / English II Honors (120332)
This course emphasizes refinement in the skills of literary analysis through reading and writing about fiction and non-fiction texts from a variety of time periods and cultures. Students will analyze short stories, articles, essays, poems, drama, and a novel to explain how authors develop themes and arguments. The course includes instruction in grammar and writing with an emphasis on composing organized and well-developed essays in forms such as literary analysis, narrative, and research. Students must earn a Mastery or Advanced score on the LEAP assessment to qualify for placement in an honors course.

English III (120333)
This course provides an overview of American literature and the dominant ideas and styles of major American writers, focusing on different genres and movements particular to America. The writing will focus on literary analysis and argument as well as the process of writing a fully documented research paper.

AP English Language and Composition (120325)
This course focuses on the development and revision of evidence-based analytic and argumentative writing, the rhetorical analysis of nonfiction texts, and the decisions writers make as they compose and revise. Students evaluate, synthesize, and cite research to support their arguments. Additionally, they read and analyze rhetorical elements and their effects in nonfiction texts—including images as forms of text— from a range of disciplines and historical periods. **This course can substitute for English III.* *AP Exam / CLEP Exam Required

English IV (120334)
This course is a survey of British literature selections from the Anglo-Saxon period to the present. Students will read and discuss poetry, drama, and stories, analyzing the language, history, and philosophy that has influenced the literature. The primary modes of writing are analytical and argumentative, and research writing and skills are reinforced.

AP Literature and Composition (120326)
The AP English Literature and Composition course focuses on reading, analyzing, and writing about fiction, poetry, and drama from various periods. Students engage in close reading and critical analysis of literature to deepen their understanding of the ways writers use language to convey meaning and themes. Writing assignments include analytical and argumentative essays that require students to analyze and interpret literary works. **This course can substitute for English IV.* *AP Exam Required

ENGL 1013 (ENGL 101) English Composition I (120601) **College Credit 3**

Introduces students to the critical thinking, reading, writing and rhetorical skills required in the college/university and beyond, including citation and documentation, writing as process, audience awareness, and writing effective essays.

Prerequisite: Appropriate placement test score, OR ENGL 0091 (or ENGL 091) with a “C” or better or ENGL 0093 with an “S”.

Co-requisite: None

ENGL 1023 (ENGL 102) English Composition II (120607) **College Credit 3**

Continuation and further development of material and strategies introduced in ENGL 1013 (ENGL 101). Primary emphasis on composition, including research strategies, argumentative writing, evaluation, and analysis.

Prerequisite: Appropriate placement test score OR ENGL 1013 (or ENGL 101) with a grade of “C” or better

Co-requisite: None

ENGL 2133 Literature and Ethnicity (120399) **College Credit 3**

Studies the literature of America’s diverse ethnic cultures, especially Native American, Asian, Hispanic, Jewish, and African-American. Includes critical analysis and writing about literature.

Prerequisite: ENGL 1013 with a grade of 'C' or better Co-requisite: None

ENGL 2313 Intro to Poetry and Drama (120616) **College Credit 3**

Introduces poetry/drama; includes critical analysis and writing about poetry/drama.

Prerequisite: ENGL 1023 with a grade of 'C' or better Co-requisite: None

MATHEMATICS

1st Level	2nd Level	3rd Level	4th+ Level
Algebra I Algebra I Honors	Geometry Geometry Honors	Algebra II Algebra II Honors	Algebra III Adv Math/Pre Calculus Advanced Math DE AP Calculus AB AP Calculus BC AP Statistics

Algebra I / Algebra I Honors (160321)
This is an entry-level course that bridges the gap between the concrete ideas of mathematics and the abstract thinking of Algebra. Topics studied include variables; operations and properties of real numbers; equivalent expressions and equations; solving and graphing linear equations and inequalities; factoring and solving quadratic equations; radicals; exponential growth; and probability. Special emphasis is placed on developing an understanding of functions through real-world applications. Students must earn a Mastery or Advanced score on the LEAP assessment to qualify for placement in an honors course.

Geometry / Geometry Honors (160323)
This course focuses on the study of visual patterns and the use of Geometry to describe the physical universe, to represent mathematical concepts, and to teach problem-solving skills. Students utilize inductive reasoning to discover patterns and make conjectures and employ deductive reasoning to confirm conjectures through proof. Topics include measurement formulas; geometric and spatial visualization; drawing skills; properties of congruence, similarity, parallelism, and perpendicularity; different methods of proof; properties of plane and solid figures; and transformations. Geometry provides unifying concepts that are used throughout high school mathematics. Students must earn a Mastery or Advanced score on the LEAP assessment to qualify for placement in an honors course.

Algebra II / Algebra II Honors (160322)
This course focuses on sharpening the understanding of concepts introduced in Algebra I and Geometry and extending the use of functions as models for real-world situations. Students explore algebraic expressions and forms, especially linear and quadratic forms, powers and roots, absolute value, and functions and graphs based on these concepts. Topics include logarithmic, exponential, and polynomial functions, and matrices. Algebraic and geometric topics are connected to topics in statistics, probability, science and engineering, and discrete math. Additional Honors level topics include conics, sequences, and series, probability and statistics and trigonometry. Students must earn a Mastery or Advanced score on the LEAP assessment to qualify for placement in an honors course.

Algebra III (160375)
This course builds upon concepts learned in Algebra I and Algebra II. Topics covered include higher-level algebraic topics, complex numbers, polynomial and rational functions, exponential and logarithmic functions, systems of equations and inequalities, sequences and series, and an introduction to matrices and determinants. Additional topics may include conic sections, probability, and trigonometry. The course focuses on deepening students' problem-solving skills, enhancing their algebraic reasoning, and preparing them for further studies in advanced mathematics or related fields. Scientific calculator recommended. CLEP Exam required for this course

Precalculus (Advanced Math) Honors (160366)
This is a college preparatory course that focuses on triangular and circular Trigonometry and Pre-Calculus. It further explores functions and their graphs through mathematical modeling, simulations, and real-world applications. Additional topics include analytic geometry, conics, logarithms, the Number e combinatorics and probability, derivatives, and the use of graphing calculators. College Algebra is an in-depth treatment of solving equations and inequalities; function properties and graphs; inverse functions; linear, quadratic, polynomial, rational, exponential, and logarithmic functions with applications; systems of equations. Scientific calculator recommended. CLEP Exam may be required for this course.

AP Calculus AB (160327)

Prerequisite: Completion or concurrent enrollment in Advanced Math

This course follows the suggested outline as provided by the Advanced Placement Program of the College Entrance Examination Board. It is an intensive study of differential and integral calculus. The three units are limits, derivatives, and integrals. Students will approach each topic numerically, graphically, and analytically. Students will use skills that have been taught in Geometry, Algebra II, and Advanced Math. This course will prepare students to take the required CLEP exam in the Spring and the AP exam that is in May. *AP approved graphing calculator is required.

AP Calculus BC (160328)

Prerequisite: Successful completion of Advanced Math Honors or AP Calculus AB

This course follows the suggested outline as provided by the Advanced Placement Program of the College Entrance Examination Board. This AP course covers concepts, skills, and applications of limits, derivatives, integrals, polar equations, parametric equations, sequences, series, and Taylor polynomials. This course teaches students to approach calculus concepts and problems graphically, numerically, analytically, verbally, and to make connections amongst these representations. This course will prepare students to take the AP exam that is in May. *AP approved graphing calculator required.

AP Statistics (160352)

Prerequisite: Successful completion of Advanced Math

The AP Statistics course is equivalent to a one-semester, introductory, non-calculus-based college course in statistics. This course provides an elementary introduction to probability and statistics with applications. Topics include basic probability models; combinatorics; random variables; probability distributions; statistical estimation and testing; confidence intervals; and an introduction to linear regression. Students will be introduced to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. The course is very hands-on, and students will be engaged in constructing their own knowledge through the use of technology, projects and laboratories, cooperative group problem-solving, and writing. This course will prepare students to take the AP exam that is in May. *Graphing calculator is required.

Adv Math Dual Enrollment (LSU MATH 1021 AND 1022) (160502) and (160501)

Two semesters, two dual enrollment courses: one semester of Math 1021 (College Algebra) followed by one semester of Math 1022 (College Trig.) where students can earn 6 credit hours. Prerequisite: **Math 1021:** Min. composite ACT-20 **AND** Min. math score of ACT-19, but a 21 in math is recommended **AND** a 2.5 cumulative HS GPA. Prerequisite: **Math 1022:** Credit for MATH 1021

Math 1021: College Algebra (1021) is an in-depth treatment of solving equations and inequalities; function properties and graphs; inverse functions; linear, quadratic, polynomial, rational, exponential, and logarithmic functions with applications; systems of equations. Scientific calculator (TI-30XIIs) required.

Math 1022: College Trigonometry (1022) is an in-depth treatment of solving trigonometric functions and graphs; inverse trigonometric functions; fundamental identities and angle formulas; solving equations; triangles with applications; polar coordinate systems. Scientific calculator (TI-30XIIs) required.

SCIENCE

1st Level	2nd Level	3rd Level	4th+ Level
Physical Science Physical Science (H)	Biology Biology Honors	Chemistry Chemistry Honors	Physics AP Chemistry II AP Biology II Environmental Science AP Environ. Science Biology DE (1013/1023) Physical Science DE

Physical Science / Physical Science Honors (150802)
This course explores fundamental principles of physics and chemistry, including motion, forces, energy, atomic structure, and chemical reactions. Students engage in hands-on experiments and real-world problem-solving to develop critical thinking and scientific inquiry skills. *Students must earn a Mastery or Advanced score on the LEAP assessment to qualify for placement in an honors course.*

Biology I / Biology I Honors (150301)
Students will do more than learn about science; they "do" science. Simply having content knowledge and scientific skills are not enough; students must investigate and apply content knowledge to scientific phenomena. Phenomena are real world observations that can be explained through scientific knowledge and reasoning (e.g., water droplets form on the outside of a water glass, plants tend to grow toward their light source, different layers of rock can be seen on the side of the road). Science instruction must integrate the practices, or behaviors, of scientists and engineers as students investigate real-world phenomena and design solutions to problems.*Students must earn a Mastery or Advanced score on the LEAP assessment to qualify for placement in an honors course.*

Chemistry I / Chemistry I Honors (150401)
Students acquire an understanding of the basic principles of modern chemistry through classroom and laboratory work. Topics: matter and its composition, the mole concept, gas laws, atomic theory, bonding, thermal chemistry, chemical formulas, and equations, and acids, bases and salts, and varying degrees of math. *Students must earn a Mastery or Advanced score on the LEAP assessment to qualify for placement in an honors course.*

Physics (150700)
This course includes an introduction to mechanics (kinematics, dynamics, and conservation laws), fluids, heat, wave phenomena, optics, electricity, and magnetism. Math problem-solving techniques and laboratory investigations are emphasized. Students should have completed Algebra II prior to signing up for Physics due to math requirements.

AP Physics (150724)
These courses are college-level, algebra-based physics courses taken together in one school year. AP Physics 1 (fall) topics include Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. **AP Test Required*

AP Chemistry II (150410)
This AP course is the equivalent to college chemistry and covers all concepts recommended in the AP Chemistry course description. It includes in-depth theoretical studies and extensive problem-solving. **AP or CLEP Test Required*

AP Biology II (150307)

AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore topics like evolution, energetics, information storage and transfer, and system interactions. **AP or CLEP Test Required*

Environmental Science/ AP Environmental Science (150310)

The Environmental Science course is designed to be equivalent to an introductory college Environmental Science course. The goal of this course is to provide students with the scientific principles, concepts, and methodologies to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the risks associated with these problems, and to examine alternative solutions resolving and/ or preventing them. In this course there will be a lab component as well as a field component. **AP Test Required for AP Env. Sci.*

Biology II DE (1013/1023) (150323) and (150325) College Credit 3/3

Biology II DE is a college-credit Biology course for non-science majors. Students will earn 6 hours of college Biology credit over two semesters by earning a grade of C or better in the course. The goal of Biology 1013 is to address the foundational units of life, the inheritance of traits, and how traits influence an organism's survival in their ecosystem. The goal of Biology 1023 is to address the diversity of life and the traits that are specific to each phylogenetic kingdom.

PHSC 1023 Physical Science I (duplicate HS physical science credit) (150915) College Credit 3

Surveys the wonders of the physical universe through a study of kinematics, Newton’s laws of motion, rotational motion, fluids, thermodynamics, waves, the solar system and other key topics in astronomy. Not intended for science and engineering majors.

SOCIAL STUDIES

1st Level	2nd Level	3rd Level	4th+ Level
World Geography AP Human Geo	US History AP US History	Civics AP Government	World History African American History AP European History AP Psychology World Hist DE (1113,1123) Afr Am Hist DE (2103)/ World History 1123

World Geography (220300)
World Geography is dedicated to the learning of the world around us, along with the issues that arise from our existence on this planet. This entry-level course is meant to introduce students to concepts, such as location, place, region, movement, and human-environment interaction that will scaffold into all future social studies courses.

AP Human Geography (220310)
AP Human Geography is a full-year course designed to fulfill the curriculum expectations of a one-semester university human geography course. The course focuses on the processes and cause/ effect relationships of human populations. Students are required to complete additional readings, projects, presentations, and writing assignments.*AP Test Required*

U.S. History (220403)
United States History offers a study of the history of our nation from the Industrial Revolution until the present. Through content reading, independent research, and collaborative projects, students explore American culture through a chronological survey of major issues, movements, people, and events in the United States.

AP U.S. History (220404)
This course is a two-semester survey of United States History from the age of exploration and discovery to the present. Solid reading skills, along with a willingness to devote considerable time to homework and independent study are necessary to succeed. Emphasis is placed on critical thinking skills, essay writing, interpretation of original documents, and historiography. *This course can substitute for US History.* *AP Test Required

American Government (220502)
Civics is designed to provide students with both practical knowledge about how the American system of government functions on local, state, and national levels, as well as an understanding of the philosophical and intellectual underpinnings of our constitutional republic.

AP US Government and Politics (220503)
United States Government and Politics give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. It requires familiarity with various institutions, groups, beliefs, and ideas that constitute theU.S. government and politics. Students are required to complete additional readings, projects, presentations, and writing assignments. *This course can substitute for Civics.* *AP Test Required

World History (220401)
World History examines the development of society over time from the dawn of civilization to the present day. Students learn about the socioeconomic conditions, political institutions, and ideological attitudes that have marked various time periods throughout history. Using primary and secondary sources, students examine historical events, cultural developments, and social and family structures. Students will analyze statistics and data from maps, charts, and graphs to identify trends and patterns throughout history.

African American History (220512)
This course will provide an overview of the history of Africans and their descendants across the globe, including but not limited to African civilizations prior to European colonialism, encounters between Africa and Europe, movements of Africans to the Americas and elsewhere, and development of Black communities in and outside Africa. Learners will explore the complex interplay among the political, economic, and cultural forces that shape our understanding of the historic achievements and struggles of African-descended people in the United States and their relation to others around the world.

AP European History (220412)
AP European History is an introductory college-level European history course. Students cultivate their understanding of European history through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like the interaction of Europe and the world; economic and commercial developments; cultural and intellectual developments; states and other institutions of power; social organization and development; national and European identity; and technological and scientific innovation.

AP Psychology (222004)
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 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, evaluate claims and evidence, and effectively communicate ideas. Students should be able to read a
college-level textbook, clinical supplementary material, and write grammatically correct, complete sentences.

HIST 1113 (HIST 101) World Civilization to 1500 (220446) College Credit 3
Surveys major civilizations of the world from 1500 to the present and emphasizes interactions among them and their influences on each other. Prerequisite: None Co-requisite: None

HIST 1123 (HIST 102) World Civilization 1500 to Present (220447) College Credit 3
Surveys major civilizations of the world from 1500 to the present and emphasizes interactions among them and their influences on each other. Prerequisite: None Co-requisite: None

HIST 2103 (HIST 2063, 206) African American History (12th grade only) (220511) College Credit 3
Overview of African American history from the early fourteenth century to the present. PHSC 1023
Prerequisite: None Co-requisite: None

WORLD LANGUAGES

Louisiana requires 2 years of the same language to graduate

SOCIAL STUDIES

Lang	1st Level	2nd Level	3rd Level	4th+ Level
French	French I	French II	French III French DE (1013/1023)	French IV AP French DE (2013/2023)
Spanish	Spanish I	Spanish II	Spanish III Spanish DE (1013/1023)	Spanish IV Spanish DE (2013/2123)
Latin	Latin I	Latin II		

Biliteracy Diploma Endorsement Seal:

High School Students that meet certain criteria are eligible for the Louisiana Seal of Biliteracy academic graduation endorsement. To earn the Seal of Biliteracy, students must fulfill all required high school English course requirements, achieve a composite score of 19 or above on the Reading/English components of the ACT, and demonstrate Intermediate High proficiency or above in one or more languages other than English. One of the following criteria must be met to show proficiency:

- Pass 4 years of World Language high school courses (levels I - IV)
- Achieve the B2 DELF (French) or DELE (Spanish)
- Earn an Intermediate High on a national proficiency exam (i.e. AAPPL, STAMP, etc.)
- Score a 4+ on a World Language AP or IB Exam

EL Students who pass the ELPT with Early Advanced proficiency and meet the above requirements may also earn the Seal of Biliteracy.

French I (121001)

This is a beginning course designed to introduce students to basic French conversation skills in reading, writing, listening and speaking. Students will also gain an appreciation and understanding of French and francophone culture. This course is conducted in the target language as much as possible

French II (121002)

This course is a continuation of French I with an emphasis on continuing to improve proficiency in the conversational skills of reading, writing, listening and speaking. Upon completion of this course, students will have a basic command of elementary sentence patterns and grammatical structures, as well as further understanding of French and francophone culture. This course is conducted in the target language as much as possible.

French III Honors (121003)

This is an advanced language course with a focus on developing greater proficiency in the conversational skills of reading, writing, listening and speaking. Students will also develop a greater understanding of various cultural perspectives of the francophone world. This course is conducted predominantly in the target language.

French IV AP (121004)

This is an advanced language course designed to further develop proficiency in the conversational skills of reading, writing, listening and speaking. Students will also develop a greater understanding of various cultural perspectives of the francophone world. This course is conducted predominantly in the target language. Students will prepare for and take the French AP Exam at the end of the year.

French Dual Enrollment (1013/1023) (121011)
This is a two-semester, DUAL enrollment course where students can earn 6 total credit hours. This is a General Education course. This course introduces and extends the elementary knowledge of the French language and culture and explores the basic grammatical structure of the French language. This course develops writing, reading, listening, and speaking skills as well as appreciation for the geography, food, music, values, and customs of the Francophone world. A college-level work ethic is required. **This course is conducted predominantly in the target language.** *Prerequisite: Completion of French I and II.*

French Dual Enrollment (2013/2023) (121013) (121014)
This is a two-semester, DUAL enrollment course where students can earn 6 total credit hours. This is a General Education course. This course completes review of the basic grammatical structure of the French language and continues developing appreciation for French culture through the reading of diverse cultural texts Emphasis is placed on reading and writing skills and personal communication. These are intermediate college-level French language courses that are the course sequence following FREN 1013/1023 that serve as an accelerated version of French III and French IV. A college work ethic is required. **This course is conducted predominantly in the target language.** *Prerequisite: Completion of FREN 1013 and FREN 1023.*

Spanish I (122501)
This is a beginning course designed to introduce students to basic Spanish conversation skills in reading, writing, listening and speaking. Students will also gain an appreciation and understanding of Hispanic and Latino culture. **This course is conducted in the target language as much as possible.**

Spanish II (122502)
This course is a continuation of Spanish I with an emphasis on continuing to improve proficiency in the conversational skills of reading, writing, listening and speaking. Upon completion of this course, students will have a basic command of elementary sentence patterns and grammatical structures, as well as further understanding of Hispanic and Latino culture. **This course is conducted in the target language as much as possible.**

Spanish III (122503)
This is an advanced Spanish language course with a focus on developing greater proficiency in the conversational skills of reading, writing, listening and speaking. Students will also develop a greater understanding of various cultural perspectives of the Spanish-speaking world. **This course is conducted predominantly in the target language.**

Spanish IV(122504)
This is an advanced Spanish language course designed to further develop proficiency in the conversational skills of reading, writing, listening and speaking. Students will also develop a greater understanding of various cultural perspectives of the Spanish-speaking world. **This course is conducted predominantly in the target language.**

Spanish 1013 / 1023 Dual Enrollment (122511 and 122512)
This is a two-semester, DUAL enrollment course where students can earn 6 total credit hours. Basic lexicon and structure of Spanish; emphasis on communicative language use. These are college-level Spanish Language courses that serve as an accelerated version of Spanish I and Spanish II. A college-level work ethic is required. *Prerequisite: Completion of Spanish I and II.*

Spanish 2013 / 2123 Dual Enrollment (122513 and 122514)
This is a two-semester, DUAL enrollment course where students can earn 6 total credit hours. This is a General Education course. These are intermediate college-level Spanish language courses that are the course sequence following SPAN 1013/1023 that serve as an accelerated version of Spanish III and Spanish IV. A college work ethic is required. **This course is conducted predominantly in the target language. P***rerequisite: Completion of SPAN 1013 and SPAN 1023.*

Latin I (121601)

Latin I is more than an introduction to a language—it's an engaging journey into the world of the Romans and a powerful way to build skills that benefit you today. In this course, you'll master the basics of Latin through clear, interactive practice in grammar, vocabulary, and translation, all while exploring the rich stories of Roman history, legends, myths, religion, and daily life. As you learn how Latin shaped the ancient world, you'll also discover how it continues to influence modern languages, science, law, and culture. Studying Latin strengthens English vocabulary and reading comprehension, giving you a significant advantage on the ACT and in all academic areas. Latin I also opens the door to exciting opportunities outside the classroom. Students are eligible to join the State and National Junior Classical League. Upon completing Latin I, students become eligible for induction into the National Latin Honor Society.

Latin II (121602)

Latin II builds on the strong foundation established in Latin I and invites students to take their skills to the next level. In this course, the study of the Latin language continues with a deeper focus on grammar, vocabulary, and especially the precise translation of increasingly complex passages. Students strengthen their understanding of how Latin works, gaining the ability to read and interpret authentic texts with confidence and accuracy. As they advance, students also continue exploring the world of ancient Rome—its history, culture, myths, and enduring influence on modern society—developing a richer appreciation of how this ancient civilization shaped the world we live in today. Students further expand their English vocabulary and analytical skills, reinforcing abilities that support higher-level reading comprehension, clearer writing, and improved performance on standardized tests such as the ACT. The logical structure of Latin sharpens critical thinking, while sustained exposure to classical literature and culture broadens students' academic perspective across the humanities and sciences. Students who have earned membership in the National Latin Honor Society can continue to enjoy its prestigious recognition, along with further opportunities for awards, leadership roles, and scholarship applications.

PHYSICAL EDUCATION & JROTC

PHYSICAL EDUCATION

Purchase of School PE Uniform required

Physical Education I, II (190105) and (190106)
The aim of this course is to develop activities which a person can use later in life. Such activities as volleyball, basketball, track and field, soccer, flag football, and softball are taught

Health(190500)
The goal in this class is to provide experiences and activities in health education that will help students to make informed choices about personal, family, and community health. The topics to be covered are first aid and safety, personal health, substance use and abuse, nutrition, and how to prevent obesity. 1/2 Credit is required for graduation.

Athletic Physical Education I (190105), II (190106), III (190107, IV (190108)
These sections of Physical Education are reserved specifically for athletes who are active on team rosters at the beginning of the year. Schedule changes will not be made during the school year if a student earns a roster position during the school year.

JROTC

The Army Junior Reserve Officer Training Corps (JROTC) teaches character education, achievement, wellness, leadership, and diversity. It is a cooperative effort between the Army and the high schools to produce successful students and citizens while fostering in each school a more constructive and disciplined learning environment. The curriculum consists of education in citizenship, leadership, social and communication skills, physical fitness and wellness, geography, and civics. *JROTC has hair, makeup, and jewelry standards higher than the school standards. Cadets are required to wear the uniform properly and participate in physical training at least once per week. JROTC I and II substitute for Physical Education I, Physical Education II, and Health graduation requirements.*

JROTC I (170001)
Introduction to Drill and Ceremony, Physical Training, Drill Team, Color Guard, Rifle Team, marching, rifle drill, customs and courtesies, and wear of the JROTC uniform. ROTC 1 counts towards credit for physical education and health.

JROTC II (170002)
JROTC II gives students an opportunity for leadership in cadet formations, marching, physical training and team events. Completion of ROTC I and II give full credit for physical education and health.

JROTC III (170003)
Introduction to individual and team planning, problem-solving, decision making, public speaking and service-learning.
Cadets in JROTC III have the opportunity for more advanced leadership in a program purposely designed for student-led activity: Leadership in Drill Team, Color Guard, and Rifle Team. Highly motivated, disciplined, fit, consistent, productive, cooperative, and respectful cadets will have an opportunity to serve in Cadet Battalion Staff positions.

JROTC IV (170004)
The highest level of leadership and responsibility. Leadership Education Training (LET) 4 cadets have the opportunity to lead, plan, and execute training and service for the entire Corps of Cadets. LET 4 cadets must be the hardest working cadets in the school, setting the example: teaching, training, coaching, and mentoring other cadets. Completion of JROTC 4 gives cadets an advantage in competing for ROTC scholarships and entry into military service.

JROTC Cyber-STEM Courses

The Army Junior Reserve Officer Training Corps (JROTC) Cyber-STEM Program is a four-year curriculum prepared to build proficiencies needed for students to meet the demands of the profession.

JROTC 1 Cyber-STEM (170001)

The course begins with fundamental JROTC Leadership Training. Cyber year one focuses on the foundational skills needed to begin a pathway into cybersecurity. It begins with an introduction to ethics and cybersecurity, moves on to global connectivity, and then transitions to understanding hardware, operating systems, networks, cryptography, and operating procedures. The course ends with a service learning oriented capstone project that encourages problem solving and team building. This course covers topics associated with CompTIA A+ certification

JROTC 2 Cyber-STEM (170002)

Prerequisite is ROTC 1. The course begins with fundamental JROTC Leadership Training. This course delves into the more technical aspects of the field, providing a firm foundation in network architecture and security. Students also learn about cybersecurity crime and cybersecurity law, while tying these concepts to citizenship and government. The course ends with a Python programming boot camp and a service learning capstone project that focuses on leadership skills and team building. This course covers topics associated with CompTIA Network+ certification. *Teacher recommendation required.

JROTC 3 Cyber-STEM (170003)

Prerequisite ROTC 1 and 2.The course starts with JROTC Leadership Training. Next, students build upon their understanding of security controls and deepen their understanding of risk management, cryptography, and system hardening. Additionally, they explore digital forensics, threat modeling, and secure software development. When the course concludes, the students should be comfortable with topics associated with CompTIA's Security+ certification exam. *Teacher recommendation required.

JROTC 4 Cyber-STEM (170004)

Prerequisite ROTC 1, 2, and 3. Fundamental JROTC Leadership Training kicks off the final year. The course also allows the students to learn the offensive side of cybersecurity while delving into advanced cybersecurity topics. Students explore specialized areas, such as forensics, compliance, reverse engineering, and SCADA. Students learn ethical hacking, beginning with the legal aspects of the topic and progressing through planning and scoping, performing vulnerability scanning and penetration testing, and analyzing and reporting the results. This year also focuses heavily on wireless communication and includes an introduction to the C++ programming language. The course covers topics relevant to CompTIA's Pen Test+ exam and provides an extended capstone to allow students to focus on a select topic of interest. At the conclusion of the course, students can utilize their training in the government, industry, or academic sectors. *Teacher recommendation required.

Students who excel in the various areas are able to prep and take the National CompTIA certifications.

FINE ARTS

Fine Arts Survey (030332)
This course is designed to give students an introduction to understanding the four arts, their relationships and how each touches our daily lives. It introduces students to the visual, performing, and applied arts. Students learn about the creative processes, historical styles, and movements in art. They also explore the impact of the arts on society.

Music Appreciation (030330)
This course takes an academic view of music and is intended for students who are interested in the study of music without performing. Throughout the year, students will explore music as music historians, music theorists, and composers, gaining a deeper understanding for where music has been, what it is currently, and where it may go in the future.

AP Art History (030597)
AP Art History is an introductory college-level art history course. Students cultivate their understanding of art history through analyzing works of art and placing them in historical context as they explore concepts like culture and cultural interactions, theories and interpretations of art, the impact of materials, processes, and techniques on art and art making, and understanding purpose and audience in art historical analysis.

VISUAL ARTS

Students enrolled in AP Art Courses are REQUIRED to submit an AP Portfolio at the end of the course. College credit may be granted based on the student's AP Exam score.

ART I (030501)
This course covers studio production, critical analysis, aesthetic awareness, and selected art history topics. Students experience basic drawing and painting in a variety of media and techniques. *$50 Fee for all Art Courses*

ART II (030502)
This course is an intermediate level of visual arts which absolutely requires students to be able to formulate their own projects with teacher guidance. *$50 Fee for all Art Courses*

AP STUDIO ART COURSES

College-level accelerated art courses addressing conceptual and perceptual aspects of art production. The AP exam requires a 24 piece portfolio due in April. Students are only eligible to take AP Art classes after successful completion of Art I and Art II.

AP STUDIO ART: DRAWING (030519)
Work may be in any media (painting, drawing, printmaking, collage, mixed-media) as long as it incorporates drawing in some way. *AP Portfolio Required.

AP STUDIO ART: 2-D DESIGN (030509)
Work may be in any two-dimensional media. The final portfolio must collectively address all elements and principles of design. *AP Portfolio Required.

AP STUDIO ART: 3-D DESIGN (030508)
Work may be in any three-dimensional media. The final sculpture portfolio must address all elements and principles of design. *AP Portfolio Required.

VOCAL MUSIC

Beginning Choir (030310)

This is an entry-level vocal ensemble for both treble and bass singers. Students within this ensemble will learn the fundamentals of music theory, sight-singing, vocal technique, and music history, as we explore choral literature ranging from the classical era to modern arrangements of commercial music. No prior singing experience or knowledge is necessary.

Concert Choir (Advanced Choir) (030312)

This is an intermediate-/advanced-level choir intended for students who have previously taken "Beginning Choir" (or have gotten approval from the current choir director) and understand the fundamental concepts of music theory and vocal technique. This course continues the study of music theory, music history, and vocal technique, as well as introduces fundamental ideas of vocal pedagogy. The Concert Choir is the ensemble which may represent Liberty Magnet in various competitions and events throughout the school year.

INSTRUMENTAL MUSIC

$25 Class Fee + $25 Fee per semester for School Owned Instrument, availability is limited.

Beginning Band (Instrumental Rental Req.) (030300)

This course is designed for students with a serious interest in studying instrumental music and developing skills necessary to join the more experienced performing ensembles. In order to achieve the outcomes of this course perspective students should be disciplined and self-motivated. Students will need to obtain an instrument.

Advanced Band (SYMPHONIC BAND) (030302)

This course is designed for those students participating in after-school extra curricular band practice year round. Students in the Adv. Band class makes up the marching band and concert band.

Jazz Band (030304)

This course is for advanced musicians. Seeking skilled drum set, piano, and bass players. This course will cover a variety of styles and interpretations for the best literature written for this medium, as well as basic improvisation and theory. Permission of the director is required.

Studio Piano (030361)

This is an introductory-level course for piano that covers proper piano technique within a group classroom setting, while incorporating the necessary elements of music theory and pedagogy to gain a better understanding for use and execution of musical expression. Students within this class will explore various aspects, types, and techniques of piano performance, including solo repertoire, duet repertoire, and accompaniment.

Studio Piano II (030362)

This is an intermediate/advanced-level piano course intended for students who have either previously taken “Studio Piano I” (or have gotten approval from a piano instructor) and understands the fundamental concepts of music theory and piano techniques.

PERFORMING ARTS

Theatre I: Introduction to Theatre (030700)
This course teaches the fundamentals of theatre through the use of monologues,improvisation, and scene work. This course also incorporates an introduction into stage make-up, stage combat, basic costume construction, set design, technical theatre and more. You will be required to demonstrate your ability during class time, through individual presentations, and group presentations. This course is for beginners with little to no prior knowledge of theatre.

Theatre II:Methods and Styles of Acting (030721)
This course continues to build upon the foundation of Theatre I while introducing movement, voice-work, facial/emotional expression, and the use of non-verbals. You will be required to demonstrate your ability to utilize these concepts with the work we do in class, monologues, and scene presentations. Additionally, this course requires participation in one (1) production a year in any capacity. This course is for students familiar with theatre who have an interest in performance. NOTE: This class is geared more toward performance and those seeking that outlet.

Theater III: Advanced Acting (030731)
This course continues to build upon the foundation of Theatre I while incorporating play structure, playwriting, directing, and emotional development for character growth. You will be required to demonstrate your ability during class time, individual presentations, and group presentations. Additionally, this course requires participation in one (1) production a year in any capacity. This course is for students who are familiar with theatre and have an interest in directing and playwriting. NOTE; This class is geared more toward the creatives who want to work 'behind the scenes

Theatre IV: Play Production (Theatre I & II or I & III Req) (030741)
You are required to have taken a combination of Theatre I and II or Theatre I and III to take this course. This course will incorporate all aspects of theatre culminating in a Theatre IV production. The production will require rigorous dedication and collaboration to be a success. Participation in one (1)(additional) production a year in any capacity is required. Note: This class is an advanced course and you will be leading the charge. This class is intended for those who are passionate about theatre and are considering a career in the arts.

FINE ARTS (Dual Enrollment)

ARTS 1023 Introduction to Visual Arts (030532) **College Credit 3**
Introduces a survey of the visual arts with emphasis on how and why works have been created in our own and earlier times. All major forms of drawing, painting, printmaking, sculpture, design and architecture are explored in basic terms.

STEM PATHWAY COURSES & PROGRESSIONS

Liberty Magnet High School provides programs for high school students that will better prepare them for college and careers in technology, engineering, and data-driven fields of employment. We are offering high quality courses in Computing & Cybersecurity, Digital Design & Emergent Media, Pre-Engineering, and Pre-Healthcare & Pre-Veterinary Pathways that highlight 21st century skills such as critical thinking, problem solving, communication, collaboration, and appropriate use of technology.

Computing & CyberSecurity

1st Level	2nd Level	3rd Level	4th Level
CIW Internet Business* (040405)	Survey of Computer Science (061179)	Cybersecurity (040217)	Introduction to Computational Thinking (061140)

*IBC CIW Web Foundations Associate (Internet Business, Site Development, Network Technology)

Digital Design & Emergent Media

1st Level	2nd Level	3rd Level	4th Level
Digital Storytelling (040241)*	Media Arts (030810)**	Coding for the Web (040244)	Programming for Digital Media (040243)

*IBC Adobe Photoshop - Digital Storytelling **IBC Adobe Premier Pro - Media Arts

Pre-Engineering

1st Level	2nd Level	3rd Level	4th Level
Introduction to Engineering (110801)	Principles of Engineering* (110864)	Engineering Design & Development (110861)**	Introduction to Computational Thinking (061140)

*IBC - Autodesk Autocad **IBC - Autodesk Inventor

Pre-Healthcare & Pre-Veterinary

1st Level	2nd Level	3rd Level	4th Level
Introduction to Biomedical Sciences (090811)	Comparative Anatomy and Physiology (312095)	Forensic Science (312096)	AP Psychology (222004)

**IBC CIW Web Foundations Associate (Internet Business, Site Development, Network Technology)

COURSE OFFERINGS LIST

Math	Science	Social Studies	English
Algebra I Algebra I Honors Geometry Geometry Honors Algebra II Algebra II H Algebra III Precalculus (Adv Math) Adv Math /Trig 1223 DE AP Calculus AB AP Calculus BC AP Statistics A	Physical Science Physical Science Honors Biology I Biology Honors Chemistry Chemistry H Physics AP Physics I AP Biology II AP Chem II Environmental Science AP Env. Science Biology I/II DE	World Geography AP Human Geography US History AP US History Civics AP Government World History African Amer. History AP European History AP Psychology World Hist DE (1113/1123) Afr Amer Hist DE (2103)	English I English I H English II English II H English III AP Lang. & Comp. English IV AP Literature Eng III/Eng IV DE Eng Elec DE 2133/2313
Computing & Cybersecurity	**Digital Arts**	**Pre-Engineering**	**Biomedical**
Intro to Comp Thinking Survey of Comp Sci CIW Web Found Assoc Cybersecurity Coding for Web AP Comp. Sci. A AP Comp Sci Principles Interactive Computing	Digital Storytelling Media Arts Coding for the Web Prog for Digital Media Photography I Photography II Dig.Image & Mot Graph Film & TV Basic/Adv Film (II) DDEM Capstone	Intro to Comp Thinking Intro. to Engineering Principles of Engineering Eng. Design & Develop Robotics LSU Adv. Robotics Eng. Engineering Economy	Intro to Biomed Sci Comparative Anatomy Forensic Science AP Comp Sci Principles Biomedical Capstone
Fine Arts	**Foreign Language**	**Physical Ed.**	**Electives**
Fine Arts Survey Music Appreciation AP Art History Art I Art II AP Studio Art Drawing AP Studio Art 2D AP Studio Art 3D Beginning. Choir Advanced Choir Beginning Band Advanced Band Jazz Ensemble Studio Piano I Studio Piano II Theatre I, II, III, IV Set Design/Production Visual Arts DE (1023)	French I French II French III Honors French IV - AP French Elem I / II DE French Interm I / II DE Spanish I Spanish II Spanish III Spanish IV Spanish Elem I / II DE Spanish Interm I / II DE Latin I Latin II	Physical Ed I Physical Ed II 1S Health 1S Athletic PE III /IV JROTC I JROTC II JROTC I CYBER STEM JROTC II CYBER STEM	ACT Prep English ACT Prep Math Broadcasting Creative Writing CTE Internship Customer Service Data Analysis Financial Literacy Intro. Comp.Thinking Journalism JROTC III JROTC IV JROTC III CYBER STEM JROTC IV CYBER STEM Principles of Marketing Speech Yearbook

ELECTIVE COURSE DESCRIPTIONS

ACT Prep (400107)

This is a **junior-level course** required for students who did not meet college-readiness standards on the Pre-ACT. The course will focus on test preparation strategies and content in the four ACT testing sessions: English, Math, Reading, and Science. Students who earn a 21 composite score with college readiness of 18+ English/19+ Math on the ACT prior to the start of the junior year will be exempt from this course. Students who earn a score within the top of the predictive college-readiness range on the PreACT during the Sophomore year will be exempt from this course.

Advanced Robotics (150730)

Advanced robotics for VEX uses skills learned in Introduction to Robotics to create complex mechanical structures and high-level programming in order to compete at VEX Robotics competitions. After school and weekend commitments may be required. *Students are **required** to attend at least two robotics competitions per semester, which are outside of normal school hours (possibly Saturdays).*

Aide (Library) -- APPLICATION ONLY - 000010

Students serve as office aides in the library. This class is NOT for credit. Grade 12 ONLY. Application ONLY. *Requires administrator recommendation.

Aide (Office Aide) -- APPLICATION ONLY - 000010

Students serve as office aides in the various Academy offices. This class is NOT for credit. Grade 12 ONLY. Application ONLY. *Requires administrator recommendation.

AP Computer Science A (061177)

AP Computer Science A introduces students to computer science through programming. Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language. *Prerequisite: first-year high school algebra course*

AP Computer Science Principles (061175)

The AP Computer Science Principles course is designed to be equivalent to a first- semester introductory college computing course. In this course, students will develop computational thinking skills vital for success across all disciplines, such as using computational tools to analyze and study data and working with large data sets to analyze, visualize, and draw conclusions from trends. The course engages students in the creative aspects of the field by allowing them to develop computational artifacts based on their interests. Students will also develop effective communication and collaboration skills by working individually and collaboratively to solve problems, and will discuss and write about the impacts these solutions could have on their community, society, and the world.

AP Seminar (10,11) (125041)

Students investigate real-world issues from multiple perspectives in order to develop and write credible and valid evidence-based arguments. The AP evaluation requires two academic essays with presentations (one group and one individual) and an End Of Course AP exam. Students who earn a score of 3 or higher in AP Seminar, AP Research, and 4 other AP courses will receive the AP Capstone Diploma. This course is a prerequisite for AP Research. Students must have two teacher recommendations, one from the English teacher, and an A or B in English. **AP Exam Required*

Biomedical Capstone (090812)
This course is for seniors in the Biomedical Pathway. Students spend time interning for a wide range of biomedically focused local companies, businesses, and organizations. Students in this course will gain work experience and become more familiar with several possible career paths and opportunities available to them so that they can make informed decisions on how to best achieve their biomedical professional goals. It is recommended that students have access to their own transportation. *Prerequisites: Introduction to Biomedical Sciences & Comparative Anatomy and Physiology*

Broadcasting (080014)
This course is project-based, the students will learn the basics of broadcast journalism, how to write for broadcast and how to produce a news show. The focus of the course will be to produce a live news production and school promotional videos every week to be broadcast at the school. Students will learn the major groups of production including: camera operator, sound engineer, editor, producer and director. The course will be dedicated to allowing students to explore newsgathering in the electronic age. While producing the news, students will have the opportunity to use professional studio equipment. Students are expected to have basic knowledge of cameras and tripods, as well as some video editing experience.

CDF-CTE Internship - 080202 (12th Grade)
Students in CTE Internship earn high school credit for workforce experiences during the school year. Paid internships must be within the student's STEM Pathway. Students in this course must provide their own transportation and will be dismissed during the class to report to their job placement. **This course is only open to students who have been accepted into the East Baton Rouge Parish WorkForce Readiness Internship Program. The program requires an application, interview, background check, and drug screen.** Co-requisite: None

Coding for the Web (040244)
Coding for the Web is an introductory course focusing on the foundational programming concepts in web development, such as functions, for loops, conditional statements, as well as analyzing and solving problems like a programmer. Though we are utilizing HTML, CSS, and JavaScript, this is not a "web design" course. Students will have the skills, knowledge, and experience to create web applets by the end of the course. The main goals of this class focus on teaching students to think critically about how to solve a problem using programming, and writing JavaScript programs using functions, for loops, and conditional statements.

Comparative Anatomy (312095)
This one-year course engages students in rigorous study of the body's physiological systems and then compares these systems across many species in the animal kingdom (both vertebrates and invertebrates). Course assignments range from formal assessments to hands-on dissections and labs. Additionally, this course places an emphasis on public speaking through scientific presentations and independent research to enhance scientific reading and writing skills. Students will also learn to read and interpret published scientific articles to examine evolutionary relationships between species, making connections that will be built on in later bioinformatics studies.

Creative Writing (11,12) (600220)
This course is a writing workshop that focuses primarily on writing short memoirs, short stories, short plays, and poetry. Students will be required to analyze the works of published authors and produce multiple drafts of their own work. The class operates as a collaborative workshop environment where students generate new material, share their work for constructive peer and instructor feedback, and engage in a rigorous process of revision and editing. Students will work towards an end of year portfolio project with the goal of submitting various works to both local and national writing competitions and journals.

Cyber Society (040218)
Technology is advancing rapidly and connecting us in ways never before imagined. The modules in Cyber Society are designed to enable teachers to use liberal arts concepts and ideas as an approach to increase cyber awareness among high school students. This course helps contribute to the initiative of developing a better, more educated cyber workforce. The lessons within each module improve students' critical thinking and critical reading skills as they pull information from articles and other sources. Students also practice their presentation skills as they participate in debates and group presentations. The modules include a wide variety of topics such as law, ethics, terrorism, communication and business as they pertain to cyberspace.

Cybersecurity (040217)

This course is designed to foster interest in Information Technology and networking careers. Through hands-on projects, students learn to install and administer operating systems, to have computers communicate with each other and to detect and repair vulnerabilities in systems and networks. This course also covers connections of computing and society, including ethics, security, and privacy in on-line communication.

Data Manipulation and Analysis (080532)

This course is an introduction to the emerging field of Data Science, which is a combination of mathematics and statistics on one hand, and computational thinking and programming on the other hand. Students will learn how to collect and clean data from different sources, such as databases, web scraping or measurement devices. They will then use charts and plots to visualize the data, and statistical measures to analyze it. There will also be an introduction to Big Data topics and methods. Finally, the students are exposed to using the programming language R and the data analysis tool, Microsoft Excel. *Prerequisite: All students signing up for Data Manipulation and Analysis should be currently enrolled or have already completed Algebra II due to math requirements.*

Digital Image & Motion Graphics (080221)

These courses will be based on hands-on training in the use of computer hardware and software to create digital graphics, starting with the basics of Photoshop and Illustrator and continuing Maya software. As the student develops familiarity with these industry-standard programs and graphic tools 2D animation and design projects will be overseen by mentors. The 2D animation partition of the class will focus on rigging, planar tracking, rotoscoping, motion tracking, etc in order to develop their own animated short. The class will conclude with the introduction of 3D design, development, and rigging. These will be offered as dual enrollment courses through LSU.

Engineering Capstone Free Elective (12) (090812)

Students apply the knowledge and skills obtained throughout the Pre-Engineering Pathway to create a collaborative project which they present to other students, faculty and industry professionals.

Engineering Design & Development (110861)

Students work in teams to research, design, test, and construct a solution to an open-ended engineering problem. Students will study visualization and prototyping techniques including freehand sketching and 3D modeling using Inventor. The curriculum includes studies in principles of design methodology, product development, and prototyping with 3D printers. Students will also learn about project management by creating a design portfolio with an emphasis on technical writing and presentation skills.

Engineering Economy (144200)

Students learn how to plan engineering projects based on economic studies for decision-making, including considerations of rate of return, payback period, cost-benefit calculations, depreciation and tax relationships, and introduction to multivariate alternative studies. *Also available in a dual enrollment format.*

Film And TV (080024)

An entry-level course that will serve as an introduction to basic video/film/audio production. The goal of the course is for the student to develop the ability to capture great video images and audio, and to be able to edit those elements together to tell a story.

Financial Literacy (160345)

This course is required for all students to meet graduation requirements beginning with the class of 2028. Education in financial literacy helps prepare students for the workforce and for financial independence by developing a sense of individual responsibility and improving life skills, as well as a thorough understanding of consumer economics. Financial literacy education integrates instruction in valuable life skills with instruction in economics, including income and taxes, money management, investment and spending, and the importance of personal savings.

Forensics Science (155050)

Focuses on the skills and concepts behind physical aspects of crime scene investigation and **forensic science**. This **course** includes a broad series of lessons and activities that offer a variety of modalities for ultimate student engagement and content retention.

Interactive Computing (061180)
This course focuses on the nuances of programming for interacting with the real world in two representative areas: autonomous robots and the front end of web applications. Students learn how to iteratively approximate a software model to the realities of the physical hardware, how to write test suites and how to systematically debug their programs. Through fun and engaging projects, the students learn problem solving skills, such as programming robots to navigate mazes and play soccer, developing on-line pages to read sensors and control actuators. *(Prerequisite: Introduction to Computational Thinking)*

Interactive Emergent Media Capstone (040245)
Students create an individual project, presenting it to fellow students, faculty, and industry professionals. They apply knowledge and skills obtained in the program to design a significant project in a collaborative environment. At the end of the semester, they make a formal oral presentation of their project to a faculty committee.

Intro To Computational Thinking (9-12) (061140)
This is a full year course for students in 9th grade and above. This introductory course provides students with a foundational understanding of computational thinking, using a problem-solving approach that involves breaking down complex problems into smaller, more manageable steps and then uses technology to solve them. Through hands-on experience with the Python programming language, students will develop essential computational skills, including algorithmic thinking, data analysis, and program design.

Intro To Engineering (110801)
This course exposes students to the design process, research and analysis, teamwork, communication methods, ethical decision making, engineering standards, and technical documentation. Students have the opportunity to develop these skills through project-based learning and to continually hone their interpersonal skills, creative abilities, and understanding of the design process. In addition to hands-on activities from each of the 10 major engineering disciplines, students will interact with industry professionals through guest presentations. *Also available in a dual enrollment format.*

Journalism (11-12) (050601)
This course is a foundational skills course. Its primary purposes are to sharpen your news judgement and to improve your skills as a reporter, writer, and editor. Students in this course will write for The Liberty Free Press, LMHS's news site. As part of the course, you will provide your own unique take on the ideas that everyone is talking about! Once every quarter you'll contribute to the design and publication of TLFP magazine - a seasonal magazine we publish online for free! Additionally, students will have the opportunity to collaborate with local news outlets and see their work published for a broader audience.

Media Arts I (030810)
This course will introduce students to the fundamentals of visual design. Curriculum will cover creative processes and appreciation of methods of artistic expression through design projects and exercises. The instructor will introduce the tools, techniques, and concepts behind the creation of production of visual design. Students ill apply these design techniques and concepts through best studio and design practices by utilizing traditional and digital tools. Technologies introduced will include operating systems, hardware, and software. Topics covered include: defining visual art and design, examining media and tools available for design production, design elements and principles, and opportunities for careers using design.

Photography I (312400)
Digital Photography covers the basic concepts and practice of digital photography, including understanding and use of the camera, lenses, and other basic photographic equipment. The course will address aesthetic principles as they relate to composition, space, exposure, light and color. Students will use Adobe Photoshop to edit photos as part of this course. There will be an Industry Based Certification on Adobe Photoshop at the end of the course.

Photography II (312405)
This course will help students develop a portfolio of their work. Further techniques and skills will be refined and incorporated into their work.

Principles Of Biomedical Sciences (090810)

Learning and Growing by Investigating Medical Mysteries Through scaffolded activities that connect learning to life, students step into the roles of **biomedical science** professionals and investigate topics including human medicine, physiology, genetics, microbiology, and public health.

Principles of Business (040306)

This course provides a foundational understanding of how businesses operate, covering key areas like economic systems, business structures (sole proprietorship, corporations), management, marketing, finance, ethics, and entrepreneurship, preparing students for various career paths by developing essential business terminology and professional skills. **Students should earn Customer Service and Business of Retail credentials in this course.**

Principles Of Engineering (110864)

Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students continue to enhance their skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and computational thinking.

Principles Of Marketing - (041025)

Principles of Marketing introduces the basic foundations and functions of marketing and entrepreneurship. Emphasis is placed on knowledge, skills, and attitudes necessary for entering and advancing in the field and reinforced in this course through the application of marketing and entrepreneurial principles. Work-based learning strategies appropriate for this course include job shadowing, field trips, and/or cooperative education. Business simulations, projects, teamwork, DECA leadership activities, conferences, and competitions provide opportunities for application of instructional competencies. **Prerequisite - Successful completion of Principles of Business**

Programming For Digital Media (040243)

This course introduces a broad array of topics related to digital media through project-oriented programming of graphics, audio, and hardware applications. The motivation for this course is to provide a basic introduction to computer programming using subjects that are relevant or appealing to incoming students who are new to technological fields of study, with no prior programming coursework. The course is presented in four segments, covering three distinct areas in digital media, with a fourth covering the integration of these areas. There is a strong emphasis on computer programming tasks throughout, and the hands-on exercise of digital media tools in class is required. The first segment introduces real-time graphics rendering and user interaction. The second introduces sound synthesis and audio production. The third introduces basic electronics and requires students to develop hardware devices with embedded processing. Finally, communication mechanisms are developed, allowing the disparate elements of graphics, sound, and hardware to be composed into interactive systems.

Programming For STEM/Engineering (144300)

This course expands the practice of software development in a variety of settings, so that students acquire a broad set of programming skills and a deeper understanding of software engineering principles. Students learn to plan, design and implement relatively large programming projects that require background research and teamwork. Topics include simulations, games and interactive online applications. Robust program design and sound software engineering practices are emphasized throughout the course. *(Prerequisite: Interactive Computing or Data Manipulation and Analysis)*

Publications I - (050603) (11th & 12th grade)

In Publications I, students will work in a project-based format in conjunction with the photography team to produce the annual yearbook. Students will be responsible for designing layouts and themes, writing articles and interest stories, attending school events to collect photographs and first-hand information, and proofreading. **Students must be approved by the instructor.**

Robotics (150780)

Students use robotics to explore the fundamentals of engineering and programming. The course consists of project-based learning including principles of engineering, physics, electronics, mechanics, and programming using VEXCode. Students will use VEX components to create robots for various classroom projects. While building the robots, the design process will be emphasized as the robots are tested and their designs are modified to accomplish varying tasks. The second-semester projects will have a heavier focus on programming the robot to move autonomously.

Sound Design (080020)

Create original projects using a variety of music production software tools for sequencing, sound editing, synthesis, and effects. Get familiar with music notation software. Use edit and mix a studio session using professional tools. Get hands-on training with microphones, mixers, and other live sound equipment.

Speech (051101)

Speech I provides an introduction to the fundamentals of oral communication, focusing on developing poise, confidence, and public speaking skills and listening skills. Students will learn techniques for preparing and delivering various types of speeches, such as informative, persuasive, inspirational, and impromptu. The curriculum also includes skills for dramatic reading as well as skit writing and performance.

Survey Of Computer Science (061179)

This course introduces the basics of computing using engaging activities instead of formally describing the concepts. It follows the framework of Seven Big Ideas adopted in the AP Computer Science Principles course, but it has more emphasis on exploration and experimentation, and less emphasis on problem-solving and formal analysis than a regular CSP course. This course models ways to adopt a productive disposition that fosters creativity and perseverance. In addition, career exploration lessons are threaded throughout the course, with a focus on developing students interest in computing and identification with the computing professions

Video Game Design (080022)

The course is project-based, the students will not just be learning dry programming concepts, but applying them immediately to real games. Students will build an entire game themselves with no prebuilds. Students will also be challenged to apply, and re-apply their knowledge regularly. The course will be taught only utilizing C#. The students will learn C#, including Test-Driven Development, a highly valuable skill. This is a higher-order thinking course that can build student's confidence in the basics of coding and game development, and make them hungry to learn more.

Liberty Magnet High School
Dual Enrollment Policy

Effective: January 1, 2026
Purpose: To establish clear admission, retention, withdrawal, academic-expectation, and GPA-impact rules for students participating in dual (concurrent) enrollment in college courses while enrolled in Liberty Magnet High School. This policy aligns with the Louisiana Board of Regents minimum standards and common practice at Louisiana public universities, and requires that students registering for dual enrollment courses be actively *seeking an associate degree* as part of their postsecondary plan.

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1. Scope & Definitions

- **Dual Enrollment (DE):** enrollment of a currently-enrolled high school student in a college course for which the student receives both high school credit and college credit. Courses must be collegiate level, credit-bearing, and meet the awarding institution's standards.
- **College Partner:** the postsecondary institution (community college, technical college, or university) awarding college credit.
- **Eligible student:** a student who meets the admission criteria below and who indicates they are *seeking an associate degree* (A.A., A.S., or A.A.S.) as their intended postsecondary pathway.

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2. Admission Eligibility

All DE applicants must satisfy BOTH the high school and the college partner's admission requirements.

General minimum criteria for a student at Liberty Magnet High School includes all of the below:

- **Grade-level:** Juniors and seniors are eligible for up to 12 credit hours per semester (some institutions limit to only juniors and seniors)
- **Grade Point Average:** Minimum cumulative GPA of **3.0** on a 4.0 scale
- **Prior-Authorization:** Permission from the high school principal and the student's parent/guardian w/signed contract
- **Enrollment Requirements:** Students must complete the college partner's enrollment and registration steps, including transcript submission, placement/testing documentation, etc.
- Minimum **college placement test** or standardized scores (ACT/SAT, Accuplacer, PreACT, or comparable) as required by the college partner (e.g., ACT subscores or placement exam thresholds for English/math).

Assessment	Placement Scores for Humanities and Social Sciences	Placement Scores for Science and Mathematics
pre-ACT	18	19
pre-SAT	500	500
ACT	18	19
SAT	500 ERW	510 Math

- If a student registers for a dual enrollment course but subsequently fails to meet the above placement / admission scores, the student will not be allowed to enroll in the course. The school will notify the student and parent/guardian, and the student's schedule will be adjusted to a school-approved alternative.

Note: Individual colleges (e.g., LSU, BRCC, SELU, community college partners) maintain final authority to admit or deny dual enrollment applicants based on their published criteria. Students must apply to the college partner, submit any required placement scores, and be formally admitted by that college before registration.

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3. Retention, Academic Standards & Probation

- **College GPA requirement:** To continue earning college credit through DE, students must maintain a **minimum 2.5 cumulative college GPA** on the college transcript.
- **High school GPA requirement:** Students are expected to maintain at least a **3.0 high school GPA**
- **Unsatisfactory grades:** Students who earn a C in a college-level dual enrollment course will be placed on academic review.
- **Program Removal:** A student will no longer be eligible to enroll in DE classes through Liberty the following year if the following apply:
  - They end with a D or F in a course
  - Withdrawal from any DE course
  - Choosing to not accept a DE grade in a choice model DE course

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4. GPA Impact & Transcripts

- **College transcript:** All grades earned in DE courses are recorded on the partner college transcript and **count in the student's college GPA**. These grades are part of the permanent college record.
- **High school transcript & rank:** DE course grades will also be used according to Liberty Magnet's high school transcript policy (e.g., weighted/unweighted, inclusion/exclusion for rank)
- **Transferability:** Because students are required to be pursuing an associate degree path and courses are catalog-listed collegiate courses, credits are generally transferable within Louisiana public institutions under Board of Regents articulation policies — but students should confirm with the intended transfer institution.

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5. Withdrawals, Drops & Failing Grades

- **Withdrawals:** Students must follow the college partner's published withdrawal deadlines and procedures. A timely withdrawal (per college policy) results in a "W" on the college transcript; withdrawals past posted deadlines may result in a failing grade. Both outcomes may have implications for high school credit and GPA.
- **High school process:** Withdrawal from a dual enrollment course also requires notification to the high school counselor and may require completion of forms to adjust the high school schedule/credit.
- **Consequences of repeated W's or F's:** Withdrawals or failing grades may lead to loss of DE privileges and may affect future financial aid eligibility and college admission considerations. Colleges may require remediation or placement testing before permitting re-enrollment.

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6. Student Expectations & Responsibilities

Students participating in DE must:

1. Meet all college deadlines for application, registration, placement testing, and tuition/payment (if applicable).
2. Attend classes, complete assignments, and meet the same academic standards as on-campus college students. Dual enrollment courses are *not* remedial and will be assessed at the collegiate standard.
3. Abide by the college's code of conduct and academic integrity policies. Violations may result in discipline on both college and high school records.
4. Meet with the academic program coordinator at least once per semester to confirm course alignment with the associate-degree plan and to document continuing eligibility (including confirmation of associate-degree intent).
5. Request that the college send official transcripts to the high school and to any future college to which the student seeks to transfer credits.
6. Students and parents may meet with college navigators at BRCC to evaluate the student's course progression and progress towards obtaining the associate degree.

- College Navigators assist students to achieve their educational and career goals. College Navigators guide students through degree completion by helping them select courses that meet program requirements, understand degree requirements, set academic goals, understand college policies/procedures, and connect students with campus resources. College Navigators are an excellent resource for finding information and other services at BRCC that can assist students achieve their educational goals.
- Advising is a shared responsibility between students, College Navigators, & faculty. Together you and your College Navigator will set goals and develop a graduation plan. Because Baton Rouge Community College is the college of record for the LMHS transfer degree, it is required that all dual enrollment students meet with a college advisor each year.

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7. Dual Enrollment Communication & Resolution Policy

Dual enrollment students are enrolled in **college-level courses** and are expected to take responsibility for communication regarding their academic progress. To support student success, the following communication and resolution procedure must be followed if issues arise with a dual enrollment course (including grading, assignments, or access):

1. **Student Responsibility – Contact the College Instructor First**

   - The student must **email or meet directly with the dual enrollment professor** to discuss concerns or questions.
   - All communication should be respectful, professional, and use the student's college email (if assigned).

2. **Secondary Contact – Liberty Teacher Support**

   - If the student's concern is **not resolved** after reaching out to the professor, the **Liberty High School teacher** assigned to that course will attempt to contact the dual enrollment professor to assist in resolving the issue.

3. **Escalation – Dual Enrollment Designee**

   - If the issue remains unresolved, the **Liberty Dual Enrollment Designee** (school liaison or person overseeing the DE program) will contact the college's Dual Enrollment Coordinator or Department Chair for clarification or mediation.

4. **Administrative Involvement**

   - Only after these steps have been completed will the matter be elevated to **school administration**. The administration will review documentation of all previous contacts and collaborate with the partnering college for final resolution.

Note: Following this chain of communication ensures professionalism, proper documentation, and respect for the partnership between Liberty High School and the college. Students who bypass the established process may experience delays in resolving their concern.