

ALBANY HIGH SCHOOL



Course planning catalog

2022-2023

Albany High School is a public comprehensive high school offering collegiate and career preparatory education. Our mission is to educate all students in a safe, supportive, and challenging environment where they can learn to be a productive citizen through lessons in academics, accountability, and attitude.

Albany High School offers academically challenging courses to prepare students for college and/or the workforce. Students attend seven classes a year through a traditional schedule. Students are eligible to take honors, advanced placement, and dual enrollment throughout their high school career.

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Louisiana Graduation Requirements

Entering 9th Graders 2014-2015 and Beyond

Albany High School

TOPS University (College track)	Jump Start TOPS Tech (Career track)
<p>English- 4 Units English I English II English III English IV</p> <p>Math- 4 Units Algebra I Algebra II Geometry Advanced Math, or Algebra III DE Statistics DE</p> <p>Science- 4 Units Physical Science Biology Chemistry Anatomy & Physiology, Physics, or Biology II AP</p> <p>Social Studies- 4 Units Civics American History World Geography World History/AP Psychology Western Civ DE</p> <p>PE/Health Health (½ unit) Physical Education (1 ½ units)</p> <p>Spanish (2 units)</p> <p>Fine Arts Survey/Band (1 unit)</p> <p>Electives (3 units)</p>	<p>English- 4 Units English I English II English III or Technical Writing English IV or Business English</p> <p>Math- 4 Units Algebra I Geometry Math Essentials Business Math Financial Literacy</p> <p>Science- 2 Units Physical Science Biology</p> <p>Social Studies- 2 Units Civics American History</p> <p>PE/Health Health (½ unit) Physical Education (1 ½ units)</p> <p>Jump Start- 9 units Jumpstart course sequence, which leads to earning an industry-based credential. (Architecture & Construction, Business Management, Health Science, Hospitality & Tourism, & Arts, A/V, and Communication)</p>
Total - 24 units	Total - 23 units

TOPS Diploma = TOPS Scholarship

Louisiana 4-Year Universities

Opportunity Award

- Complete 19 Core units
- Earn 2.5+ GPA in 19 Core units
- Earn 20+ on the ACT
- Complete the FAFSA

Pays a portion of tuition

Performance Award

- Complete 19 Core units
- Earn 3.25+ GPA in 19 Core units
- Earn 23+ on the ACT
- Complete the FAFSA

**Pays a portion of tuition +
\$200/semester**

Honors Award

- Complete 19 Core units
- Earn 3.5+ GPA in 19 Core units
- Earn 27+ on the ACT
- Complete the FAFSA

**Pays a portion of tuition +
\$400/semester**

Jumpstart Diploma=TOPS TECH

Louisiana Community Colleges & Technical Schools

- Complete 21 Core units
- Earn 2.5+ GPA in 21 Core units
- Earn 17+ on the ACT or WorkKeys Silver+ Level
- Complete the FAFSA

Grading Scale

Letter Grade	Regular Courses	AP/Honors Courses
A	93-100	90-100
B	85-92	80-89
C	75-84	70-79
D	67-74	60-69
F	0-66	0-59

HOW TO USE THIS GUIDE

Units required for Progression:

Sophomore5 units
Junior.....11 units
Senior.....17 units
Graduate.....23 or 24
units depending on diploma path

1. Carefully read the course descriptions in this Course Description Guide.
2. Review the Graduation Requirements on page 3.
3. Select required courses and electives based on requirements, interests, and future goals.
4. Remember that the final responsibility of meeting graduation requirements and TOPS/TOPS TECH requirements rests with the students and parents.
5. Once you complete your program of study, IGP is signed, and completed; schedule changes can only be made for computer errors, overloaded classes, duplicate classes, or seniors who need a course for graduation.

We expect students to choose classes wisely during the registration process, as we will NOT make changes after the start of the school year.

REMINDERS

REQUESTING HONORS COURSES

1. A or B in previous course in same subject
2. Cumulative 3.0 GPA
3. Teacher Recommendation

REQUESTING DUAL-ENROLLMENT COURSES (SELU)

1. Must have 12 or more credits
2. ACT Score Requirements – 19 Composite and 19 Sub-score in Math and 18 Sub-score in English
3. There may be a fee associated with the course

REQUESTING DUAL-ENROLLMENT COURSES (NORTH SHORE TECHNICAL)

1. Pre-ACT or ACT Requirement – 15 Sub-score in English and 15 Sub-score in Math

REMINDERS

REQUESTING AP COURSES



1. All AP courses are Full-Year Courses and are on a 5-point GPA scale
2. All students enrolled in AP Courses are **required** to take the AP Exam; fee for exam \$90
3. It is recommended students take no more than 2 AP Courses per year

STUDENTS CHOOSING JUMPSTART DIPLOMA



1. Meet with your counselor to choose a JumpStart Pathway
2. Student, Parent, and Counselor sign IGP

LOUISIANA TESTING REQUIREMENTS FOR GRADUATION



1. LEAP 2025 Must pass the following:
 - Algebra I **AND/OR** Geometry
 - English I **AND/OR** English II, AND
 - Biology **AND/OR** US History
2. PRE-ACT – Sophomores
3. ACT – Juniors
4. WORKKEYS – JumpStart Juniors and any Senior with a 17 or below on ACT

REQUESTING OFF-CAMPUS CLASSES FOR EARLY RELEASE



Students requesting technical early release through ABC in Baton Rouge must have an 18 ACT or Workkeys sliver and have all required credits for graduation
2.5 GPA

Students requesting academic early release may do so with enrollment through SLU Scholars program or independent dual enrollment through University of New Orleans or Northwestern State.



SLU Scholars: 24 ACT score and 2.5 GPA
UNO/NSU: 2.5 GPA and 20 ACT, 18 ACT math, & 19 ACT English

ACADEMIC/CAREER PLANNING

Albany High School students are encouraged to select a Pathway and develop an appropriate academic/career plan leading to advanced study at a four-year college or university, community college, technical college, military, or direct entry into the world of work.

CTE ELECTIVE COURSE OFFERINGS

(See course descriptions for details)

Course (Dual Enrollment possibility)	Department	Pathway or Universal	Certification
AG I	AG/Sci	Universal	NCCER CORE
Workplace Experience & Safety	AG/Science/HT	Universal	OSHA 10/30
First Responder (DE)	PE/Science/HS	Universal	Emergency Medical Responder
Entrepreneurship	Business	Universal	LA Micro-Enterprise-Reg
Entrepreneurship II (DE)	Business	Universal	LA Micro-Enterprise-state
Principles of Business (DE)	Business	Universal	Customer Service (S1) & The Business of Operations (S2)
IBCA	Business	Universal	n/a
AP Computer Science Principles	Business	AV	N/A
Graphic Arts I	Business	AV	Adobe Photoshop
Graphic Arts II(DE)	Business	AV	Adobe associate visual design
Speech (DE)	English/Bus	Universal	n/a
Quest for Success	HT/Bus/Math	Universal	n/a
Law Studies	Social Studies	Universal	n/a
Intro to Health Occupations (DE)	Science/HS	Universal	n/a
Medical Terminology (DE)	Science/HS	Health Science	n/a
Medical Assistant (DE)	HS	Health Science	CCMA
Patient Care Tech	HS	Health Science	PCT
Food Science	HT	Health Science & Hospitality	Customer Service
Welding (DE)	AG	Architecture & Construction	NCCER Level 1 & 2
Electrical (DE)	AG	Architecture & Construction	NCCER Level 1 & 2
Carpentry (DE)	AG	Architecture & Construction	CITF level 1 & 2
Basic Scaffolding	AG	Architecture & Construction	Basic Scaffolding

JUMPSTART CAREER DIPLOMA INFORMATION

Albany High School's Jumpstart Career Diploma Pathway Elective Requirements

1. Students working toward a Jumpstart Diploma must complete **9 electives** in one pathway. Courses that count toward an academic requirement CANNOT also count toward the nine pathway elective requirement (ex. Environmental Science).
2. All students must complete a career readiness course, for example, Quest for Success
3. In addition, students must also earn a credential in their designated pathway.
4. Students are required to that all credential exam in a course when offered these can be earned within specific electives.

HELP YOUR CHILD DECIDE ON A PATHWAY

Start by...

- **Asking your child what he/she wants to do for a career; check the pathways to see if there is one that relates to his/her interest**

If that career choice is not listed or he/she is undecided...

- **Highlight courses your student has already completed to see which pathway(s) those courses already fit in to narrow down the choices; don't forget to highlight courses listed below in the (Career Readiness courses and Universal JumpStart courses)**
- **Then check the required credentials to make sure your student has a viable option to earn these credentials**

Albany Jumpstart 2.0 Pathways and Credentials

Pathway	Regional (100)	Basic (110)	Advanced (150)
Architecture & Construction (AC)	OSHA 10 OSHA 30	Basic Scaffolding CITF Level 1 NCCER Level 1	CITF level 2 or 3 NCCER Level 2
Business Management	Customer Service LA Micro-enterprise- Reg	LA Micro-enterprise- statewide	
Health Science (HS)	N/A	EMR PCT	EMT CCMA
Hospitality & tourism (HT)	Customer Service	LA Micro-enterprise- statewide	
Arts, A/V Technology & Communication	N/A	Adobe Photoshop InDesign Illustrator	Adobe certified Associate Visual design

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AGRICULTURE

The mission of Agriculture Education is to provide all learners with literacy and technical knowledge and skills necessary to live in a global society in the areas of agriculture, natural resources, horticulture, and the environment.

AgriScience I

Grades: 09-12

Prerequisite: None

This course provides students with basic knowledge of agriculture and the science applications in agriculture as well as working towards NCCER Core certification. Supervised agricultural experience, in welding and carpentry safety is discussed. Membership in FFA is recommended. Credit in this course alone gives the student one elective credit. This course can count as one of the Career Readiness courses required for the Jumpstart diploma.

Fee: \$20 FFA Membership Dues



NCCER Welding Technology I & II:

Grades: 11 - 12

Prerequisite: NCCER Core and AgriScience I

This course outlines a set of best practices for students interested in a career in the Welding field. Students will learn basic safety, theory, tool use, and welding skills building the foundation to pursue a career in the welding industry. Hands-on lab work included. Student has the opportunity to earn a Level I NCCER Welding certification.

Union Carpentry I, II:

Grades: 9 - 12 Prerequisite: None

This course includes the basic use of hand tools, and various small machine operation, emphasizing construction procedures and processes through theory and application. Safety is stressed throughout the course. Student also has the opportunity to earn a NCCER Core Level I NCCER Carpentry certification.

Union Carpentry III, IV:

Grades: 11 - 12

Prerequisite: NCCER Core and Carpentry Level 1 Certifications

This course continues the study of woodworking and woodworking processes. Modern power and hand tools are used. Students will be working toward a Level II NCCER Carpentry certification.

Basic Access Industrial Scaffolding:

Grade: 11-12

Pre Prerequisite: NCCER Core and Carpentry Level 1

Students learn the basic process for setting up and application for scaffolding systems, they earn a Basic Access scaffolding certification.

BUSINESS, COMPUTERS, CAREER READINESS, & AV

Business Education is education about preparing learners for the various roles they will play as economically literate citizens. Education for business means building on these general understandings about business in a way that prepares learners for the basics in career employability. Students must participate in DECA in some marketing education classes.

Introduction to Business Computer Applications

Grades: 09 - 12 Prerequisite: None

This course will provide students with basic computer application skills. Additionally, they will learn proper keyboarding techniques and document formatting. Students will have opportunity to earn an Industry Based Certification.

Entrepreneurship

Grades: 10 - 12

In this course, students will learn the basics needed to plan and launch a business. This course will provide students with the core skills needed to become successful. In this course, students will study the characteristics of successful entrepreneurs. Students will also learn about self-employment and basic economic concepts related to small businesses, such as competition and production. Students will earn a LA regional micro-enterprise certification

Entrepreneurship II

Grades 11-12

Perquisite: Louisiana Regional Micro-enterprise credential

In this advanced class student will get deeper into the business planning process. This course will also walk students through the steps of setting up a business, including developing a business plan, a mission and a vision, attracting investors, and marketing a company. Student will have an opportunity to earn a statewide Micro-enterprise certification.

Graphic Arts I, II:

Grades: 11 - 12

Perquisite: IBCA

This course is designed to:

- Develop skills and knowledge focused on Print Media
- Develop a creative digital portfolio
- Develop management and entrepreneurial skills
- Opportunity to earn dual-enrollment college credit
- Opportunity to earn Adobe Creative Suite and Photoshop, Illustrator & InDesign

Principles of Business:

Grades 10-12

Perquisite: IBCA

Students will learn the skills needed to work in a business from customer service to basic small business operations and finance. Students will have an opportunity to earn a national retail certification in customer service and business operations.

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Quest for Success

Grades: 09 – 12

This is an innovative, career exploration course designed to prepare all Louisiana graduates for career and life success. Students will develop essential 21st century workforce skills including the ability to communicate, collaborate and lead, explore new and exciting careers and industry sectors, and learn about themselves and their interests to successfully navigate high school, postsecondary education and career pathways. **Required for JumpStart diploma**

Virtual Workplace Safety and Experience II:

Grades: 10 - 12

This course includes virtual mentor interactions via Nepris along with career development activities and workplace simulations. VWEs help student's master key workplace behaviors and communication skills while gaining exposure to industries not represented in their region. This will also allow students to get OSHA certified

AP Computer Science Principles:

Grades: 10 – 12

Prerequisite: IBCA

Computer science is everywhere, from our smartphones and video games to music, medicine, and much more. This course can help students understand how computing and technology really work to influence and improve the world around us. Students will learn how to creatively address real-world issues while using the same tools and processes that artist, writers, computer scientists, and engineers use to bring ideas to life.
Fee: \$90 AP Exam Fee (Fee reduction for eligible students)

ENGLISH

Students are required to earn four credits in English in order to graduate. These credits involve successful completion at each grade level in chronological order (English I, English II and English III and English IV). Students who consider themselves college bound should take advantage of the Advanced Placement program and take the AP Exam. Students graduating on the JumpStart diploma may choose Business English for a senior level English.

DE English 101: Freshman Composition

Grade 12th

Prerequisite: English ACT score of 18 or above

Instruction and practice in the basic principles of expository writing: the paragraph and the whole composition-the methods of development, the thesis, the outline and organization, the structure and style. Instruction in functional grammar, sentence structure, diction and spelling, punctuation and mechanics, in direct relation to the student's writing.

DE English 102: Critical Reading and writing

Grade 12th

Prerequisite: completion of English 101

Development of skills in reading critically, analyzing models of good writing, and writing in response to a variety of texts, including imaginative literature. Writing the argumentative essay, the critical essay, the research paper, and the essay examination.

AP English Literature and Composition:

Grades: 11/12

Prerequisite: English I & II Honors

English Literature and Composition engages students in the careful reading and critical analysis of imaginative literature. As they read, students consider a work's structure, style, and themes as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. The writing in the course will address important rhetorical considerations including audience awareness, rhetorical strategies, assertions and support, organization, and grammatical and mechanical standards for academic writing, including vocabulary, sentence structure, and research documentation. College credit may be awarded if the student earns a score of 3 or higher on the AP exam administered for the course.

Fee: \$90 AP Exam Fee (Fee reduction for eligible students)

Technical Writing

Grade 9

This is introduction course for students who struggle with their writing or are on the jumpstart pathway. This course helps prepare student for the rigor of high school course working and prepare for English I.

English I:

Grade: 9

The course focuses on the study of grammar, literature, vocabulary and composition. Students will apply the fundamentals of grammar and vocabulary to literature and composition assignments.

English I (E):

Grade: 9

The course is an accelerated version of English I and focuses on the study of grammar, literature, vocabulary and composition. Students will apply the fundamentals of grammar and vocabulary to literature and composition assignments.

English II:

Grades: 10 Prerequisite: English I

The course focuses on the study of cultural interactions. The argument and synthesis style of writing will be introduced. Students will independently read two novels and will be required to take Leap 2025 test that may affect their final grade.

English II (E):

Grades: 10 Prerequisite: Grade of A or B in English I

The honors course focuses on the study of cultural interactions. The argument and synthesis style of writing will be introduced. In addition to what is covered in English II, students are required to complete a short research project. Students will independently read three novels and will be required to take LEAP 2025 test that may affect their final grade.

English III:

Grades: 11 Prerequisite: English I, II

In this course, students will use critical thinking skills to analyze the American Dream throughout literature. Writing will focus on synthesis, argument, and editorials. Students will read a minimum of one novel as well as complete a research assignment.

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English IV:

Grades: 12

Prerequisite: English I, II, III

This course is for college-bound seniors. The content of this course focuses on reading and responding to literature, vocabulary development, discussion techniques, as well as further development of the writing process and composition skills. Students will take a CLEP test as their proficiency test.

Business English:

Grades: 12

Prerequisite: English I, II, III

This course will provide students with the communication skills needed in a business environment. Keytrain is incorporated into curriculum as preparation to earn the National Career Readiness Certificate through ACT Workkeys. **IMPORTANT NOTE:** This course may be a substitution for English IV under the JumpStart diploma only.

Speech:

Grades: 09 - 12

Prerequisite: None

Training in the organization of materials and the oral and physical aspects of delivery in various speaking situations. Intended to give the beginning student an understanding of and practice in public speaking.

Speech II DE: Comm 211 Introduction to Public Speaking

Grade 11th-12th

Prerequisites: Admission to SLU DE program

Training in the organization of materials and the oral and physical aspects of delivery in various speaking situations. Intended to give the beginning student an understanding of and practice in communicative speaking.

Baking and Pastries I:

Grades: 10 - 12

Prerequisite: Food Science

The emphasis of this class will be on fundamental concepts and techniques in basic baking and pastry production. Weight, volume, basic measurement practices, proper sanitation procedures, and tool and equipment safety usage will be introduced.

ProStart I/Food Service I:

Grades: 11 – 12 Prerequisite:

Food Science

This course prepares students for careers in the restaurant and food service industry. Students gain valuable restaurant and food service skills through academic and workplace experiences. Students will have the opportunity to earn ServSafe and National Restaurant Association Education Foundation Achievement Certificate.

ProStart II/Food Service II:

Grades: 12 Prerequisite:

ProStart I

This course is the second of two courses that prepare students for careers in the food service/hospitality industry. Emphasis is on obtaining skills for the industry based certification and preparation for internships in the industry. The students who complete a 400-hour paid internship and meet the testing requirements of the National Restaurant Association will earn national ProStart certification. Topics of study include career preparation, history of the industry, lodging, tourism, the art of service, marketing, purchasing and inventory control, as well as advanced planning and food preparation techniques. Skills in critical thinking, math, communications, and science are reinforced in this course. Appropriate work-based learning strategies for this course are service learning, field trips, and internships. School-based enterprises, projects, and Family, Career, and Community Leaders of America's (FCCLA) leadership activities provide opportunities for application of instructional competencies.

FAMILY AND CONSUMER SCIENCES

Family and consumer science education empowers individuals and families across the life span to manage the challenges of living and working in a diverse, global society. Our unique focus is on families, work and their interrelationships preparing students for their dual role of wage earner and family member

Food Science I:

Grades: 9 - 12

Prerequisite: None

This course emphasizes the study of the physical, biological, and chemical make-up of food; and the concepts underlying food processing. It is the branch of science that works to create and maintain a wholesome food supply to consumers. Students will discover pioneers in Food Science and their contributions, participate in sensory evaluations, evaluate FDA regulations, analyze career paths within food science, summarize information found on a nutrition label, apply procedures for food safety, and discover advances in food technology, development and marketing.

FOREIGN LANGUAGE

Tops University Diploma requires two credits of a foreign language (in the same language) for graduation. Most four-year universities require two credits of a foreign language (in the same language).

Spanish I:

Grades: 09 - 12

Prerequisite: None

In this course, students will be introduced to the Spanish language and culture. Communication skills will be developed through listening, speaking, reading and writing.

Spanish II:

Grades: 09 - 12

Prerequisite: Grade of D or better in Spanish I recommended This course provides continuing practice in the development of foreign language skills.

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HEALTH SCIENCE

The mission of Health Careers and Sports Medicine is to prepare students for further education and/or entry-level jobs in various areas of health care, fitness and medicine.

First Responder:

Grades: 10 - 12

Prerequisite: None

This course is designed to improve the quality of emergency medical care rendered to victims of accidents and illnesses. Topics include airway management, hemorrhage control, immobilization and simple splinting. Oral and written communication skills and medical terminology are reinforced in this course, which will provide a good foundation for the entire EMS system. CPR will also be taught as CPR certification is a prerequisite to an Emergency Medical Responder (EMR) certification, which will be attained upon successful completion of this course.

Emergency Medical Technician (EMT):

Grades: 11 – 12

Prerequisite: First Responder

This course is designed to:

- Develop skills and knowledge in ambulance operations
- Develop skills and knowledge in mass casualty/triage
- Develop skills in emergency response to terrorism and hazardous materials
- Opportunity to earn dual-enrollment college credit
- Opportunity to earn National Registry Exam

Intro to Health Occupations:

Grades: 09 - 12

Prerequisite: None

This course is designed to determine the health care career most suited to the student's goal by learning the specifics of each role and the factors that affect professional performance. Education and responsibilities of various health careers will be explored, along with basic concepts common to all health careers. These concepts include medical terminology, safety and accident prevention, professionalism, legal aspects, computers in health care, and an intro to anatomy and physiology.

Medical Assistant:

Grades: 11 - 12

Prerequisite: Medical Terminology, First Responder

This course provides students with the technical, clinical and interpersonal skills necessary to succeed in the medical field. It consists of lecture, terminology, and hands-on instruction in Phlebotomy, medication administration, EKG, and various laboratory testing. After completion of the course, students are eligible to take the CCMA exam through the National Healthcare Association earning a National certification to become a Certified Clinical Medical Assistant. Students who do not like blood or needles and have frequent absences or poor attendance history should not apply.

Medical Terminology:

Grades: 10 - 12

Prerequisite: None

This course introduces students to 350 basic elements of medical terms using a unique audio-visual format. Students will explore the body organization, identification of the organs, basic functions of the human body and disorders as it relates to each system.

Patient Care Technician:

Grades: 11 - 12

Prerequisite: Medical Terminology, First Responder

This course is for students who are interested in a career in the medical field. The PCT course offers a foundation of knowledge for Patient Care, Phlebotomy, and EKG along with hands-on skills labs. After completion of the course, students are eligible to take the CPCT exam through the National Healthcare Association earning a national certification to become a Certified Patient Care Technician. Student who do not like blood or needles and have frequent absences or poor attendance history should not apply



MATHEMATICS

Students are required to earn four credits in Mathematics in order to graduate. These credits involve successful completion at each grade level. Students who consider themselves college bound should take advantage of the Advanced Placement program and take the AP Exam. Students graduating on the JumpStart diploma may choose Math Essentials and Financial Literacy.

Math Essentials:

Grades: 09 - 12

This course focuses on mastering basic algebra skills, as well as some geometry and advanced algebra topics. It may be taken after Algebra I and before Geometry. If fulfills a math requirement for Jumpstart diploma but **DOES NOT** count for the TOPS University diploma. Topics include ratio and proportion, probability, statistics, and functions.

Algebra I:

Grades: 09

Prerequisite: None

This course is designed to provide an understanding of the use of the language of algebra, solving linear equations and inequalities, problem solving with equations, graphing linear equations and understanding the integration of algebra within mathematics.

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Geometry:

Grades: 09 - 12

Prerequisite: Algebra I

This course is designed for students with a basic algebraic background as well as good mathematical reasoning and logical thinking skills. Topics covered in this course are points, lines, planes, analyzing two and three-dimensional figures, and making use of postulates, and theorems.

Geometry (E):

Grades: 09 – 12

Prerequisite: A or B in Algebra I

This course is an accelerated version of Geometry designed for students with strong mathematical reasoning and logical thinking skills. Topics covered in this course are the same as Geometry but in detail.

Algebra II:

Grades: 10 - 12

Prerequisite: Algebra I

This course should be taken by the college-bound student who has done well in previous math courses. Due to the cumulative nature of algebra, it is HIGHLY recommended that the student earned a grade of "C" or better in Algebra I and a score of "Basic" or better on the Leap 2025 test for Algebra I.

Algebra II (E):

Grades: 10 - 12

Prerequisite: Grade of A or B in Algebra I and/or Geometry
Students who have exhibited a high level of ability and maturity in previous math courses should take this honors course. The honors class covers the same material found in the regular Algebra II class but at an accelerated pace with a more in depth study of concepts.

Pre-Calculus: DE–CMAT 161/162 Alg & Trig:

Grades: 11 - 12

Prerequisite: Algebra II; **to earn college credit, students must have 19 composite; 19 Math & 18 English sub score on ACT.**

This course is a study of families of functions and their graphs. Topics include linear, polynomial, rational, exponential and logarithmic functions. Functions will be used to model and solve application-based problems. The typical weekly structure of the course includes in-class instruction, computer laboratory work, and out-of-class assignments. Computer and internet access are necessary for completion of all assignments, both in and out of class. Evaluations will be based on homework, quizzes, tests, a final exam, and classroom participation.

DE Statistics: Math 241 Elementary Statistics

Grade 12

Prerequisite: completion of Math 151 or Math 161.

An introduction to statistical reasoning. Topics include graphical display of data, measures of central tendency and variability, sampling theory, the normal curve, standard scores, Student's T, Chi Square, and correlation techniques.

Advanced Math

Grades: 11 - 12

Prerequisite: Algebra I, Geometry, Algebra II

Students will study families of functions, their graphs, triangle geometry, and statistics. This course counts as a fourth math for TOPS.



AP Calculus AB:

Grades: 11 - 12

Prerequisite: Algebra I, Geometry, Algebra II, Pre-Calculus DE, or Advanced Math Pre-Calculus

A two-semester course that provides an understanding of the fundamental concepts and methods of differential and integral calculus with an emphasis on their application, and the use of multiple representations incorporating graphic, numeric, analytic, algebraic, and verbal and written responses. College credit may be awarded if the student earns a score of 3 or higher on the AP exam administered for the course. College majors that will require calculus include all the STEM fields, including any sciences, technology, engineering, and mathematics fields.

Fee: \$90 AP Exam Fee (Fee reduction for eligible students)

Business Math:

Grades: 10-12

Prerequisite: Algebra I

This course focuses on concepts and applications needed for the design and management of personal/business finances. It serves as a foundation for making decisions as consumers, employees, and/or entrepreneurs. Emphasis is placed on math processes that include manual or electronic calculations of payroll, income tax preparation, interest computation, consumer information, managing income, buying insurance, selling and buying, and making sound credit and investment decisions for personal and business transactions.

Financial Math

Grades: 11 - 12

Prerequisite: Algebra I

This course is designed to provide a review of whole numbers, common fractions, and decimals with emphasis on percentages. The course includes calculations regarding commissions, profits, discounts, income tax, banking and other topics pertinent to business transactions.

MUSIC



Fine Arts Survey

Grades: 09 - 12

This course is designed to challenge the college-bound students by introducing the four arts (music, art, drama and dance), their history, relationships, and how they each touch our daily lives. Students will be required to write four research-based papers (one for each of the arts). Students should have personal access to the Internet for research. They will also be required to attend (beyond school hours) a classical music concert, a play (drama), a musical or ballet, and to visit a museum.

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Intermediate Band/Advanced Band 2nd Credit:

Grades: 09 - 12

Prerequisite: Prior band experience and audition

Band students are placed in an appropriate band class via audition process. Music is chosen to appropriately challenge students according to their readiness. The student develops intelligent musicianship learning to understand the music, which is being performed, as well as learns to play an instrument, as well as develop a deeper understanding of the music, which is being performed.

Band also helps to develop character by helping students to attain high ideals and to develop self-discipline and esprit de corps. Emphasis is on continuing technical development, aimed at producing a musically sensitive and expressive performance. Additional requirements: Band camp 2-3 weeks before school starts; rehearsals after school; attendance at all rehearsals and performances. In addition, students are required to be members for both 1st and 2nd semester for a total of 2 credits.

PHYSICAL EDUCATION & HEALTH

Health Education:

Grades: 09 - 12

Prerequisite: None

This half credit course is required for graduation and is paired with a half credit of P.E. course. In this course, students learn about the functions of the human body with some emphasis placed on careers in health-related areas. Decision-making dealing with tobacco, alcohol and drug use is also emphasized. Cardiopulmonary resuscitation (CPR) is a required subject area.

Physical Education I, II:

Grades: 09 - 12

Prerequisite: None

Walker High School students will earn 1 ½ credits in P.E. for graduation. All PE courses require students to wear a PE uniform consisting of a gold T-shirt with last name on the front, green gym shorts or sweat pants, white socks, and tennis shoes.

Fee—\$15.00 PE uniform

SCIENCE

Environmental Science:

Grades: 09 - 10

The course emphasis will be on human relationships to the environment (wastes, energy, ecology, resources, pollution, etc.). Students will perform laboratory activities and complete several projects.

Physical Science:

Grades: 09 - 12

This course introduces chemistry and physics topics such as the study of matter and the periodic table of elements as well as the study of forces, simple machines, electricity, light and sound.

Biology I:

Grades: 09 - 10

Prerequisite: Physical or environmental Science

This course explores the characteristics and life cycles of organisms and vital processes. Themes covered help to explain relationships with each other and their environment with the help of lab experiments that reinforce content learned.

Biology I (E):

Grades: 09 - 10

This course covers all material in Biology I while taking a more in depth study of the major biological concepts with more lab procedures.

Anatomy and Physiology:

Grades: 10 - 12

Prerequisite: Biology I

This course explores the systems comprising the human body by emphasizing physiological mechanisms and a thorough understanding of human anatomy. An emphasis is placed on the interrelatedness of such systems as the skeletal, muscular, nervous, and circulatory. Students will also dissect several different mammalian organs.



AP Biology II:

Grades: 10 - 12

Prerequisite: Biology I

AP Biology is a comprehensive survey of general biology that includes biochemistry, cellular biology, molecular genetics and heredity, biotechnology, diversity, structure and function of organisms, and ecology and evolution. 12 descriptive and experimental lab exercises are a vital part of the experience. College credit may be awarded if the student earns a score of 3 or higher on the AP exam administered for the course.

Students will be expected to complete a summer assignment.

Fee: \$90 AP Exam Fee (Fee reduction for eligible students)

Chemistry:

Grades: 10 - 12

Prerequisite: Biology I currently enrolled in Algebra II.

This course is designed for the college-bound student and covers the following: atomic theory, properties and families of elements; solutions; writing and balancing equations; formulas for compounds; mole weight; valence; electron dot formula; gas laws; ionic reaction and bonding; exothermic and endothermic reactions; isotopes; and organic formulas.

Physics:

Grades: 11 - 12

Prerequisite: Chemistry and currently enrolled in Advanced Math
This course is a lab-based inquiry approach course designed to present a basic college prep class that emphasizes theory and problem-solving equally. The course covers concepts of straight-line motion, parabolic motion, circular motion, forms of energy, types of energy transfer, kinetic theory, waves, light theory, and electrical magnetic forces and fields. Class work and lab work are correlated. Scientific calculators are used to solve problems and to create mathematical models. Can count as fourth science for TOPS.

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SOCIAL STUDIES

AP Psychology

Grades: 11 - 12 Prerequisite: None

AP Psychology is designed to introduce students to the systematic and scientific study of behavior and mental process of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with the major subfields within psychology, including biological bases of behavior, cognitive and emotional processes, and diagnosis and treatment of psychological disorders. Students will also learn about the methods psychologists use in their science and practice. College credit may be awarded if the student earns a score of 3 or higher on the AP exam administered for the course. **Fee: \$90 AP Exam Fee (Fee reduction for eligible students)**



US History (E):

Grades: 11 - 12

The U.S. History course focuses on developing students' understanding of American history from approximately 1491 to the present. Students investigate the content of U.S. history for significant events, individuals, developments, and processes in nine historical periods, and develop and use the same thinking skills and methods employed by historians when they study the past. Students also explore seven themes throughout the course in order to make connections among historical developments in different times and places. College credit may be awarded if the student earns a score of 50 or higher on the CLEP exam administered for the course.

Civics:

Grades: 09 - 12

Prerequisite: None

This course provides a study of the rights, duties, and privileges of citizenship in American society with a focus on the structure and function of federal, state, and local government, taxation, and the American Free Enterprise System.

World Geography:

Grade: 09 - 12

This course offers a study of the earth's natural environment. This includes continents, countries, oceans, rivers, lakes, mountains, plains, soil, weather patterns, and important cities and historic features of the past including history- making features of the future.

U.S. History:

Grades: 10 - 12

This course examines the forces of change and continuity in America's history since Reconstruction. Emphasis is placed on students understanding trends in history, their application to the modern world, and key historical turning points.

Law Studies:

Grades: 10 - 12 Prerequisite: None

In this course students will study the following: the legal system, criminal law, juvenile justice, torts (civil lawsuits), and individual rights and liberties

World History:

Grades: 10 - 12

This course examines the accomplishments of man from earliest known civilization to the defeat of Napoleon in 1815, and continues the study of history from the Congress of Vienna in 1815 to present.

DE Western Civilization to 1500 (HIST 101)

Grade 11-12

A survey of Western Civilization from prehistoric times to 1500. Four units on the Ancient Near East; the Ancient Greeks; the Ancient Roman World; and the Middle Ages. Includes in-depth coverage of the role of women.

DE Western Civilization since 1500 (HIST 102)

Grade 11-12

A survey of Western Civilization from 1500 to the present. Four units on the Renaissance and Reformation (to 1610); Absolutism and Enlightenment (1610-1789); Revolutions and Nationalism (1789-1914); and Modern Europe (1914-present). Includes in-depth coverage of the role of women.

Livingston Parish Automotive Center

To Schedule Classes at the Literacy & Technology Center:

- Ensure you have 3 open courses
- Ensure you are able to provide transportation
- Have a 2.5 GPA
- Complete enrollment application at www.lpltc.org



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OFF-Campus Dual Enrollment

Automotive Technician I01 (Literacy & Technology):

Grades: 11 – 12

Prerequisite: Enrollment Application this course is designed to:

- Develop skills and knowledge to become a qualified automotive technician
- Develop problem-solving skills through automotive diagnostic testing
- Develop management and entrepreneurial skills
- Opportunity to earn dual-enrollment college credit
- Opportunity to earn Automotive Service Excellence (ASE)

Automotive Technician 201 (Literacy & Technology):

Grades: 12

Prerequisite: Enrollment Application, Automotive 101 & Automotive Instructor Recommendation This course is designed to:

- Develop skills and knowledge to become a qualified automotive technician
- Develop problem-solving skills through automotive diagnostic testing
- Develop management and entrepreneurial skills
- Opportunity to earn dual-enrollment college credit
- Opportunity to earn Automotive Service Excellence (ASE)

Basic Maintenance (Literacy & Technology):

Grades: 11 – 12

Prerequisite: Enrollment Application

This course is designed to:

- Develop skills and knowledge of basic automotive maintenance
- Opportunity to earn S/P2 (Automotive Safety) certification
- Opportunity to earn ASE Certification: Maintenance & Light Repair

Southeastern Louisiana University Scholars Program

Grade 10th-12th

Students can attend SLU with a 24 act composite score and a 3.0 GPA. Students are responsible for the academic fees only up to two classes, roughly \$300-\$500 per semester.

University of New Orleans and Northwestern State University Online Dual Enrollment Program

Grade 12th

Students can take an online college level class as long as they have a 20 ACT composite, ACT sub scores of an 18 in ELA and 19 in math with a 3.0 GPA. Students are responsible for paying \$100-150 plus cost of materials



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