FONTAINEBLEAU HIGH SCHOOL 2027-2028 PROGRAMS OF STUDY

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The ultimate mission of Fontainebleau High School is to provide our students with the ability and tools necessary to function successfully in an advancing society.

INTRODUCTION

The purpose of this guide is to help you and your parents make informed decisions when making course selections for the upcoming year. It is essential that you think seriously about a particular subject before scheduling it. It is also important to use the information in this booklet to develop an overall Individual Graduation Plan (IGP) for your entire school career. Each class that you choose should be a part of this plan. Read this guide carefully and discuss your plans with your parents.

INDIVIDUAL GRADUATION PLAN (IGP)

The Louisiana Department of Education requires every student to develop, with the input of his/her parent/guardian, an IGP by the end of the eighth grade. The purpose of the IGP document includes exploring educational and career opportunities, making appropriate secondary/postsecondary decisions as part of an overall career plan, outlining a course of study based on the student's talents and interests, and considering graduation requirements relevant to the student's chosen area of concentration and postsecondary requirements. The student, parent/guardian, and counselor will review and sign the plan annually.

COUNSELORS

A counselor is assigned to you and will assist you in the following areas: academics, vocational and career information, college and scholarship counseling, personal challenges, testing, written recommendations, and references etc. It is in your best interest to clearly communicate your unique interests, abilities, needs, and ambitions to your counselor.
It is essential to recognize that the primary role of the counseling staff is to provide guidance and support to students. Students and their parents/guardians assume full responsibility for the coursework scheduled. Though the school personnel will attempt to locate and correct any errors, it is the students' and their parents' responsibility to select the courses, keep copies of records, and plan their schedule to meet all requirements for graduation. Additionally, parents and students are responsible for verifying the requirements of their chosen college and scheduling coursework accordingly.

GRADE CLASSIFICATION

Classification	Minimum Years Enrolled	Minimum Credits
Sophmore	1	5 Credits
Junior	2	11 Credits
Senior	3	17 Credits
Total Credits for Graduation – TOPS University Diploma		24 Credits
Total Credits for Graduation – TOPS Tech Diploma		23 Credits

TESTING

Leap 2025

The Louisiana Department of Education has initiated an assessment program to support consistent and rigorous standards in key high school courses. All students must pass four exams in the following categories to graduate with either the TOPS University Diploma or the TOPS Tech Diploma: (a) English I & II combined ELA Exam; (b) Algebra I & Geometry combined math exam; and (c) Biology; (d) Civics.

Advanced Placement

AP gives students the chance to tackle college-level work while still in high school and earn college credit. Visit the College Board website to learn more about AP and useful tools such as exam practice tests. FHS requires a fee, and students must take the AP exam.

CLEP

CLEP is an exam developed to give students an opportunity to earn college credit in 34 different courses. Find study resources, detailed exam descriptions, test-taking tips, and more at: clep.collegeboard.org/exams/offered. If you are interested in taking a CLEP exam, please see Ms. Jackson in the school counseling office.

FREE APPLICATION FOR FEDERAL STUDENT AID (FAFSA)

Completion of the FAFSA is a Louisiana Department of Education requirement for graduation. The FAFSA form must be filed within the deadline for priority consideration. A FAFSA form must be electronically completed as early as October at www.fafsa.gov. It is the student's and parents' responsibility to fill out the FAFSA form by the required deadline. For more information, go to www.fafsa.gov or contact Ms. Francis in the school counseling office.

LOUISIANA TUITION OPPORTUNITY PROGRAM FOR STUDENTS (TOPS)

This program awards college, university, or state technical college tuition to Louisiana high school graduates at a Louisiana college or university who meet specific academic standards. To receive the TOPS award, students must earn a cumulative grade point average of 2.5 in the core curricula courses (see TOPS Core Curriculum) and score a 20 on the ACT or greater than the state's prior year average. The annual award amount varies since it is based on the amount of tuition charged by individual institutions. TOPS offers four award programs: Opportunity, Performance, Honors, and Tops Tech. The application for the TOPS award begins with filing the Free Application for Federal Student Aid (FAFSA).

SCHEDULE CORRECTION POLICY

Schedules will only be changed only for the following: Incorrect placement; a requirement for graduation is missing; duplicate class. Schedules will not be changed for: a different elective; a different lunch; a different teacher; a different time.
The process for schedule change request is:

1. Complete the request to see counselor form in Google Classroom

SHORT DAY FOR SENIORS

Fourth-year graduating seniors who have met the following criteria, demonstrating graduation benchmarks and postsecondary readiness, may elect to enroll in only 2 or 3 periods on a short-day schedule. Students must complete at least one of those enrolled courses on a campus each semester. The student has met the following:

- The student does not have excessive tardies or absences resulting in disciplinary action or seat time.
- The student has satisfied all LEAP testing requirements for graduation.
- Earned an ACT composite score of 20 or higher, SAT of 1040, OR WorkKeys level of Gold or higher, OR scored 59% or higher on the ASVAB, AND
- Met at least one component of the LDOE College, Career, or Service Accelerator:

College Accelerators

- Scheduled to earn 6 academic TOPS-aligned dual enrollment credits with a grade of C or higher; OR
- Earned a TOPS-aligned AP exam score of 3 or higher; OR
- Scored 25 or higher on ACT Math; OR
- Scored 26 or higher on ACT English; OR
- Meets another qualifying College Accelerator criterion as defined by the Louisiana Department of Education (LDOE);

Career Accelerators

- Scheduled to earn a Basic Bundle of high-quality industry-based credentials; OR
- Scheduled to earn an Advanced Industry-Based Credential;

Service Accelerators

- Received a signed Military Acceptance Letter; OR
- Received a U.S. Service Academy Acceptance.

All other fourth-year graduating seniors must enroll in four periods both semesters. Further, any fourth year senior with fewer than four periods who does not remain in good standing in regards to attendance, academics, and discipline during the first semester will be required to enroll in four periods for the second semester. Rank-in-Class will be adversely affected by a short-day schedule.

INTERNSHIP

Internship is a 2-hour elective course offered either in the morning or afternoon designed to provide students with a structured work site for training and experience in a specific career field. Students will be exposed to a work environment off campus that will allow them to observe and participate in their specified career field. Students need reliable transportation to and from the internship site, no excessive absences, and a good discipline record.

GIFTED PROGRAM

The Gifted Program at Fontainebleau High School offers academic courses in grades 9-12 that meet the unique needs of gifted students. Students must be identified as gifted and have a current IEP in St. Tammany Parish to enroll in specifically designated Gifted (G) courses. Gifted courses are weighted courses. Students will have additional opportunities to earn college credits in select courses through Advanced Placement or CLEP testing. If the student has been previously identified as gifted in St. Tammany and wishes to resume Gifted services, they may contact the Gifted Department to begin the IEP process.

Gifted Course Offerings:

9th Grade: English I (G), AP Human Geography*, Geometry (G)
10th Grade: English II (G), AP Government*, Algebra II (G),
11th Grade: AP English III*, AP US History*, AP Pre-Calculus*
12th Grade: AP English IV*, AP European History*

*Students enrolled in AP courses are required to take the AP exam for that course. AP courses are NOT exclusive to Gifted students and may or may not be taught by a Gifted-certified teacher.

HIGH SCHOOL GRADUATION OPTIONS

Louisiana TOPS University Curriculum

The successful completion of the Louisiana TOPS University Diploma Curriculum requires a minimum of 24 credits in specific courses as detailed in this Program of Study. Students who successfully complete this curriculum will have completed the minimum required curriculum as a component of TOPS eligibility as well as Louisiana public university freshman entrance requirements. Eligibility for TOPS and entrance to Louisiana public universities is also dependent on students earning a minimum required GPA and minimum required ACT composite scores and sub-scores.

Louisiana TOPS Tech Curriculum

TOPS Tech provides career courses and workplace experiences to high school students, allowing them to continue their education after high school, certifying them for career fields. While in high school, participating students will achieve industry-based certification (IBC) or college credentials in addition to their high school diplomas. These credentials will qualify graduates to continue their studies after high school at a community or technical college or to launch a career upon graduating. Students completing the TOPS Tech Curriculum must complete a TOPS Tech Pathway including nine pathway elective credits for a total of 23 high school credits, and at least one industry based certification for the chosen pathway.

TOPS TECH PATHWAYS

Agriculture, Food, and Natural Resources

The Agriculture, Food and Natural Resources Pathway immerses students in the fields of agriculture and related sciences. This pathway equips students with knowledge of basic animal, plant, and soil science; plant cultivation and soil conservation; and agricultural operations such as farming, ranching, and logging.

Industry-Based Certifications: Agricultural Career Development Events (CDE), Agriculture Leadership Development Events (LDE), Agriculture Mechanics

Advanced Industry-Based Certification: Louisiana Agritechnology Specialist

Architecture and Construction

The Architecture and Construction pathway prepares students for hands-on experiences in carpentry, drafting, and/or pre-engineering. Students will engage in learning that prepares them for introductory careers in these fields.

Industry-Based Certifications: CITF Pre-Apprentice Core Skills, CITF Carpentry Level I, CITF Welding Level I, Autodesk AutoCAD Certified User

Advanced Industry-Based Certifications*:* CITF Carpentry Level II, CITF Welding Level II, Autodesk Inventor Certified User

Arts, A/V Technology, and Communications

The Arts, A/V Technology, and Communication Pathway prepares students to organize and manage various visual aspects of data, visual arts, performing arts, and entertainment media industries.

Industry-Based Certifications: Adobe Illustrator, InDesign, Photoshop, Premiere Pro

Advanced Industry-Based Certifications*:* Adobe Certified Professional – Video Design Specialist, Adobe Certified Professional – Visual Design Specialist

Business Management

The Business Management Pathway focuses on careers that plan, organize, direct, and evaluate all or part of a business organization. Students will learn fiscal responsibility when allocating and using financial, human, and material resources.

Advanced Industry-Based Certifications*:* Customer Service Bundle (Business of Retail + Customer Service), CIW Web Foundations Associate

Health Sciences

The Health Science Pathway prepares students to recognize, assess, diagnose, treat, and manage patient and medical needs in pre-hospital, disaster, hospital, medical office, and/or home health care settings.

Industry-Based Certifications: Basic Life Support, Emergency Medical Responder

Advanced Industry-Based Certification: Emergency Medical Technician (EMT)

Hospitality

The Hospitality Pathway prepares students for careers in the hospitality industry. Students will engage in various coursework to obtain skills relative to the principles of business, consumer sciences, customer service, and/or food service.

Industry-Based Certifications: ServSafe Food Handler Certification, ServSafe Food Protection Manager Certification, ProStart

Advanced Industry-Based Certification*:* ProStart National Cert. of Achievement (includes ServSafe Food Protection Manager)

Information Technology

The Information Technology Pathway prepares students for the design, development, installation, implementation, and maintenance of computer systems, software, hardware, networks, and cloud computing. Students will work with cutting-edge technology to develop tomorrow's products for use by business and consumers.

Industry-Based Certifications: Fundamentals of JavaScript, Functional Programming, and Web Development – Level I

Advanced Industry-Based Certification: Fundamentals of JavaScript, Functional Programming, & Web Development – Level II

JROTC

The JROTC pathway prepares students for a future career in the US Military.

Manufacturing

The Manufacturing Pathway prepares students to work in the process and production fields. Pathway coursework equips students to design, create, assemble, install, and repair electrical and mechanical systems. Manufacturing workers will be able to move into advanced manufacturing careers to use innovative technology to improve current products or processes to assist companies in producing their products more efficiently.

Industry-Based Certifications: CITF Pre-Apprentice Core Skills, CITF Carpentry Level I, CITF Welding Level I

Advanced Industry-Based Certifications: CITF Carpentry Level II, CITF Welding Level II

Pre-Educator

The pre-educator pathway prepares students who are seeking a career in the education field. Students will learn the foundations of educational programming as well as gain knowledge in the areas of child development and psychology.

Industry-Based Certifications: Louisiana Pre-Education Credential – Basic

Advanced Industry-Based Certification: Louisiana Pre-Education Credential – Advanced

FONTAINEBLEAU HIGH SCHOOL CLASS OF 2031
COURSE SELECTION – DIPLOMA REQUIREMENTS

Subjects	TOPS University Diploma			JumpStart TOPS Tech Career Diploma		
	Credits	Courses		Credits	Courses	
English	1	English I – Regular, Honors, Gifted, Resource		1	English I – Regular, Honors, Gifted, Resource	
	1	English II – Regular, Honors, Gifted, Resource		1	English II – Regular, Honors, Gifted, Resource	
	1	English III – Regular, AP		2	English III – Regular, AP English IV – Regular, DE, AP Business English Technical Writing	
	1	English IV – Regular, DE, AP				
Math	1	Algebra I – Regular, Honors, Resource		1	Algebra I – Regular, Honors, Resource	
	1	Geometry - Regular, Honors, Gifted, Resource		1	Geometry - Regular, Honors, Gifted, Resource	
	1	Algebra II - Regular, Honors		1	Financial Literacy	
	1	Algebra III – Regular, DE (College Algebra) Pre-Calculus – Regular, Honors, DE, AP Calculus – Honors, DE AP (AB&BC) Statistics – DE Trigonometry - DE		1	Algebra II – Regular, Honors Algebra III – Regular, DE Math Essentials Business Math	
Science	1	Biology – Regular, Honors		1	Biology – Regular, Honors	
	1	Chemistry – Regular, Honors		1	Environmental Science – Regular Ag. II (Ag. I is a prerequisite for Ag. II) Chemistry – Regular, Honors Physics – Honors,AP Biology II – Regular, DE Physical Science - Regular, Honors	
	2	Environmental Science – Regular Ag. II (Ag. I is a prerequisite for Ag. II) Physics – Honors, AP Biology II – Regular, DE Physical Science - Regular, Honors				
Social Studies	1	World Geography – Regular, Honors Human Geography - AP		1	U.S. History – Regular, AP	
	1	World History - Regular, Honors Psychology – Regular, DE, AP European History – AP Western Civilization - DE		1 1	Government – Regular, AP Computer Science	
	1	Government – Regular, AP		.5	Health Education	OR JROTC I & II (2 full units)
	1	U.S. History – Regular, DE, AP		1	P.E. I	
Health	.5	Health Education	OR JROTC I & II (2 full units)	.5	½ P.E. II or ½ unit Marching Band, Dance Team, Cheer	
P.E.	1	P.E. I		9	Jump Start course sequence, workplace experience, and credentials in approved Jump Start graduation pathways.	
	.5	½ P.E. II or ½ unit Marching Band, Dance Team, Cheer;		**23**	***Additional LEAP2025 Requirements**	
Foreign Language	2	Two units from the same language: Spanish I, Spanish II, French I, French II				
Art	1	Art, Music, Dance, Theatre, Fine Arts Survey, Drafting				
	1 1	Computer Science Financial Literacy				
Electives	1	See Elective Course Offerings				
Total Units	**24**	***Additional LEAP2025 Requirements**				

FONTAINEBLEAU HIGH SCHOOL CLASS OF 2028- 2030
COURSE SELECTION – DIPLOMA REQUIREMENTS

Subjects	TOPS University Diploma			JumpStart TOPS Tech Career Diploma		
	Credits	Courses		Credits	Courses	
English	1	English I – Regular, Honors, Gifted, Resource		1	English I – Regular, Honors, Gifted, Resource	
	1	English II – Regular, Honors, Gifted, Resource		1	English II – Regular, Honors, Gifted, Resource	
	1	English III – Regular, AP		2	English III – Regular, AP English IV – Regular, DE, AP Business English Technical Writing	
	1	English IV – Regular, DE, AP				
Math	1	Algebra I – Regular, Honors, Resource		1	Algebra I – Regular, Honors, Resource	
	1	Geometry - Regular, Honors, Gifted, Resource		1	Geometry - Regular, Honors, Gifted, Resource	
	1	Algebra II - Regular, Honors		1	Financial Literacy	
	1	Algebra III – Regular, DE (College Algebra) Pre-Calculus – Regular, DE, AP Calculus – DE AP (AB&BC) Statistics – DE Trigonometry - DE		1	Algebra II – Regular, Honors Algebra III – Regular, Math Essentials Business Math	
Science	1	Biology – Regular, Honors		1	Biology – Regular, Honors,	
	1	Chemistry – Regular, Honors		1	Environmental Science – Regular Ag. II (Ag. I is a prerequisite for Ag. II) Chemistry – Regular, Honors Physics – Honors, AP Biology II – Regular, DE Physical Science - Regular, Honors	
	2	Environmental Science – Regular Ag. II (Ag. I is a prerequisite for Ag. II) Physics – Honors, AP Biology II – Regular, DE Physical Science - Regular, Honors				
Social Studies	1	World Geography – Regular, Honors Human Geography - AP		1	U.S. History – Regular, AP	
	1	World History - Regular, Honors Psychology – Regular, DE, AP European History – AP Western Civilization - DE		1	Government – Regular, AP	
	1	Government – Regular, AP		.5	Health Education	OR JROTC I & II (2 full units)
	1	U.S. History – Regular, DE, AP		1	P.E. I	
Health	.5	Health Education	OR JROTC I & II (2 full units)	.5	½ P.E. II or ½ unit Marching Band, Dance Team, Cheer	
P.E.	1	P.E. I		9	Jump Start course sequence, workplace experience, and credentials in approved Jump Start graduation pathways.	
	.5	½ P.E. II or ½ unit Marching Band, Dance Team, Cheer;		**23**	***Additional LEAP2025 Requirements**	
Foreign Language	2	Two units from the same language: Spanish I, Spanish II, French I, French II				
Art	1	Art, Music, Dance, Theatre, Fine Arts Survey, Drafting				
Financial Literacy	1	Financial Literacy				
Electives	2	See Elective Course Offerings				
Total Units	**24**	***Additional LEAP2025 Requirements**				

FONTAINEBLEAU HIGH SCHOOL COURSE DESCRIPTIONS

Honors, Dual Enrollment (DE), and Advanced Placement (AP) courses offer a more rigorous and in-depth curriculum than on-level courses. If a student does not maintain a "C" or higher, the student will be moved to the on-level equivalent and will not receive an honors weighted credit.

Honors Course Entrance Requirements for Entering Freshmen

Students wishing to enroll in advanced-level courses, such as honors and/or Advanced Placement courses, as freshmen must earn at least 4 points on the honors rubric for *each* core content area for which they would like to be considered for entrance into the course.

Previous Course Grade	Standardized Assessment (7th Grade Scores)
A=3 points	Advanced = 3
B=2 Points	Mastery = 2
C = 1 Point	Basic = 1

Dual Enrollment Courses (DE)

Enrollment requirements are mandated by the legislature and are subject to change. Fees may also be associated with these courses. Course fees are set by individual Colleges and Universities and are subject to change. DE courses require a minimum ACT score and GPA as follows:
-Humanities and Social Science Courses - minimum 2.5 GPA and an 18 in English on the ACT or Pre-ACT
-Science and Mathematics Courses – minimum 2.5 GPA and a 19 in Math on the ACT or Pre-ACT

Advanced Placement (AP) courses

Students may earn college credit depending on AP Standardized Test score. **All students who enroll in AP classes are required to take and pay for AP tests.** A non-refundable AP test fee of $99 is due when you schedule the course.

Gifted and Talented Courses

These courses require a current IEP identifying the student as "gifted" or "talented" according to state criteria.

Resource Courses

Requires a current IEP identifying the student as meeting special education criteria.

NOTE: A course may not be offered if less than 14 students request it, and all course offerings are subject to change.

AGRICULTURE

Agricultural Science I, II, III
Grades 9-12
Certification Opportunity: Louisiana Agritechnology Specialist
Agricultural Science courses allow students to apply their knowledge in the different fields of agricultural science. Students will be exposed to concepts and the application of horticulture, animal production, leadership, wildlife conservation, meat processing, agricultural economics, plant science, animal science and sales and services. These courses will prepare the students for real work experiences. Students interested in agricultural and science careers should take this course.
Note: Ag Science I-III courses must be taken in order, and each course builds upon the skills learned in the previous course. The Agritechnology Specialist certification is available at the completion of AG Science III.

Agricultural Mechanics I
Grades 10-12
Prerequisite: Agricultural Science II
Certification opportunity: Louisiana Agricultural Mechanics
This course provides an introduction to the fundamental principles and practices of agricultural mechanics, focusing on three key areas: small engines, electrical systems, and welding. Students will develop hands-on skills in the maintenance and repair of small engines, including troubleshooting, diagnostics, and basic overhauls. The electrical component covers essential wiring techniques, circuit design, and electrical safety within agricultural settings. Students will also gain practical experience in various welding processes, learning basic welding techniques and safety procedures. Emphasis is placed on applying these skills to real-world agricultural applications. Successful completion of this course prepares students to take the Louisiana Ag Mechanics certification exam.

BUSINESS EDUCATION

Advanced Fundamentals of HTML, CSS, and Javascript
Grades 10-12
Prerequisite: Fundamentals of HTML, CSS, and JavaScript
Certification Opportunity: Fundamentals of JavaScript, Functional Programming, & Web Development – Level II A continuation of Fundamentals of HTML, CSS, and Javascript

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Business With Personal Finance Advanced Placement
Grade 9-12
AP Business with Personal Finance is aligned closely with a college-level introduction to business course. Students explore the business disciplines of entrepreneurship, marketing, finance, accounting, and management through real-world business applications, case studies, and project-based learning. In addition, students learn and apply all the National Standards for Personal Financial Education created by the Council for Economic Education and the JumpStart Coalition for Personal Financial Literacy.

CIW Internet Business Associate
Grades 9-12
Certification Opportunity: Internet Business Associate
Internet Business Associate prepares students to work effectively in today's business environment. In this course, students will learn about the tasks involved in various Information Technology (IT) job roles and explore career opportunities in the IT industry. Students will also learn about Internet connection methods, Internet protocols, the Domain Name System (DNS), cloud computing and mobile devices. Students will study the basic functions of Web browsers, the components of Web addresses and browser use in the business world. Students will learn how browser plug-ins and add-ons can improve your Web-browsing experience, and students will use browsers to download and manage files. Other important knowledge includes how databases work as they relate to Web search engines, using search engines to conduct basic and advanced web searches, and understanding privacy and personal information on the Internet. Finally, students will study the fundamental elements of project and program management, and the importance of acquiring these skills for all IT job roles.

CIW Website Development Associate
Grades 9-12
Prerequisite: CIW Internet Business Associate
Certification Opportunity: Adobe Dreamweaver, Site Development Associate
The CIW Site Development Associate certification program focuses on essential Web page development skills. This certification validates how to develop Web sites using Hypertext Markup Language version 5 (HTML5) and Cascading Style Sheets (CSS), writing code manually, using graphical user interface (GUI) authoring tools, creating images, hyperlinks, tables, forms, video and audio to your Web pages. In addition to HTML5 and CSS coding, you will be assessed how to use HTML5 and JavaScript Application Programming Interfaces (APIs) to extend the functionality of Web pages, such as geolocation, drag-and-drop, canvas and offline Web applications. Other topics include validating your HTML and CSS code, employing search engine optimization (SEO), using style sheets extensively to format Web page content, and implementing fundamental design concepts. Throughout the course, you will learn how Web sites are developed as managed projects. You will also identify e-commerce solutions and relate Web site development to business goals.

COMP TIA Security+
Grades 10-12
Certification Opportunity: COMP TIA Security+
Prerequisite: Successful completion of CIW Site Development Associate
Students learn practical skills in network security, threat analysis, risk management, cryptography, identity management, and security operations — balanced with hands-on labs, real-world scenarios, and professional best practices. This course prepares high school seniors for foundational cybersecurity knowledge and the CompTIA Security+ certification.

Computer Science: Regular or Advanced Placement
Grades 9-12
This course offers a comprehensive introduction to computer science, exploring fundamental concepts such as algorithms, data structures, various programming paradigms, and the organization of computer architecture. Students will learn to analyze, trace, and write code; apply techniques for algorithm analysis and creation; simulate data patterns; perform binary and base conversions; and understand the basic components of computer networks and systems.

Customer Service and Sales
Grades 10-12
Certification Opportunity: **Customer Service Bundle (Business of Retail + Customer Service)**
Customer Service and Sales is a mid-level course designed to develop the necessary skills for success as a customer service provider. The course examines various service situations and develops an attitude of superior customer service, which is critical to success in all organizations. This course provides guidelines and best practices for providing excellent customer service that will enable frontline associates and service staff in back-up and support roles to build, maintain, and increase a loyal customer base.

Digital Media I
Grades 10-12
Certification Opportunity: Adobe Photoshop
Digital Media I is an introductory course designed to give students an understanding of how to effectively use Adobe Photoshop, Illustrator, and InDesign. Students will be exposed to Adobe Photoshop, Illustrator, and InDesign through project-based learning, learning skills that will prepare them for the ACP certification exam, Digital Media II, and many graphics related jobs. Students who are interested in graphic design, visual arts, and advertising should take this course.

Digital Media II
Grades 10-12
Prerequisites: Digital Media I or Digital Photography & Adobe Photoshop Certification
Certification Opportunity: Adobe Illustrator
Digital Media II is an intermediary course designed to put students' graphic design training to work. Students will be exposed to digital design and screen printing that will prepare them for a job in the field of graphic design and/or garment decoration and many other graphics related jobs. Students who are interested in graphic design, visual arts, advertising, and garment decoration should take this course.

Digital Media III
Grades 10-12
Prerequisites: Digital Media I or Digital Photography, Digital Media II, Adobe Photoshop & Illustrator
Certification Opportunity: Adobe Animate
Digital Media III is an advanced course that continues to put students' graphic design training to work; teaching them how to run a graphic design business. Students will be exposed to management practices ranging from leadership to inventory to design to costing and pricing that will prepare them for employment or entrepreneurship. Students who are interested in graphic design, being a well-versed employee, and/or running their own business should take this course.

Digital Media IV
Grades 10-12
Prerequisite: Digital Media III
A continuation of Digital Media III.

Digital Photography
Grades 10-12
Certification Opportunity: Adobe Photoshop
Digital photography is a course designed to give students a strong foundation in photography principles, camera operations, and digital editing techniques. Students will explore composition, lighting, and visual storytelling while developing technical proficiency in industry-standard software such as Adobe Photoshop and Lightroom.

Fundamentals of HTML, CSS, and JavaScript
Grades 10-12
Certification Opportunity: Fundamentals of JavaScript, Functional Programming, & Web Development – Level I
Fundamentals of HTML, CSS, and JavaScript is a course designed to introduce students to creating interactive websites. Through the course we will be creating websites and web games with a goal of allowing students to pursue a career in programming. Students who are interested in programming, computers, or creating video games should take this course.

Internship
Grade 12
Multiple credits available
Internship is a two-hour elective advanced course designed to provide students with a structured work site for training and experience in a specific career field. Students will be exposed to a work environment off campus that will allow them to observe and participate in their specified career field. Students need reliable transportation to and from the internship site, no excessive absences, and a good discipline record.

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Jobs for American Graduates (JAG) I, II, III, IV
Grades 9-12
Selection Process
JAG Specialists deliver an array of counseling, employability skills development, career association, job development, and job placement services that will result in either a quality job leading to a career after graduation or enrollment in a postsecondary education and training program.

Principles of Business
Grades 10-12
Principles of Business is an introductory business course designed to introduce students to the economy they live in, the businesses they will work at, and the workplace skills that are needed to be a successful community member and employee. Students will be exposed to an overall view of the global economy and the businesses that work within that economy, the work skills that employers are seeking in their employees, networking, marketing, advertising, and finally a self-assessment with an industry professional. All students are encouraged to take this course.

Quest for Success
Grades 9-12
Advanced career readiness highlights skills students will need for college and career success including but not limited to soft skills, post-secondary options, personal finance, workplace safety, and career research. Students will also earn their OSHA-10 Certification in the first semester of the class.

TV Productions I
Grades 10-12
Prerequisite: Adobe Photoshop Certification
Certification Opportunity: Adobe Premiere Pro
TV Productions is an introduction to the broadcast media. Students will be exposed to the basic principles of broadcast journalism, and it is designed to teach student-reporters how to conduct on-camera interviews and produce videos that will be aired on the school-wide morning broadcast. Included will be training requirements for using broadcast equipment and editing with Adobe Premiere Pro CS6. Students will be required to film after-school activities such as sporting events and theater performances.

TV Productions II
Grades 10-12
Prerequisite: TV Productions I
Certification Opportunity: Adobe After Effects
TV Productions II is an advanced-level course designed to improve upon a student's knowledge of the broadcast medium. Students will be exposed to the daily grind of being on-camera. Anchors are responsible for writing, delivering, and editing the morning news program. Students will use digital media equipment: video cameras, teleprompter, green screen, lighting, and editing with Adobe Premiere Pro CS6 to format BTV, Bulldog Television. Students who are interested in a career path in Media should take this course.

ENGLISH

ACT Prep
Grades 10-12
ACT Prep is a mid-level course designed to utilize a variety of resources to identify strengths and weaknesses in preparation for ACT/SAT testing. Students in this course are expected to take the ACT upon course completion.

Business English
Grades 11-12
Prerequisite: English I, II
Students will enhance written and verbal communication skills that are essential to success in business organizations and industry. Students are expected to read, comprehend, interpret, and analyze literary and informational texts and to create and publish documents such as reports, essays, letters, commercials, and technical manuals. Students study rhetorical devices and persuasive techniques and apply research skills to identify a successful career path.

English I (On-Level, Honors, Gifted, Resource)
Grade 9
Students receive instruction in traditional grammar, paragraph development, vocabulary, study skills, researching information resources, writing, and critical reading of drama, short stories, essays, poetry, and novels. Students are expected to apply the fundamentals of mechanics and usage to composition assignments. **All students are required to take the English I LEAP2025 test at the end of the course. A passing score is required for graduation.**

English II (On-Level, Honors, Gifted, Resource)
Grade 10
Students will read, comprehend, analyze, and respond to literature using proper conventions of standard English. Students will be exposed to expository, literary analysis, narrative, persuasive, and research-based writing that will prepare them for English III.

English III (On-Level, Dual Enrollment, Advanced Placement)
Grade 11
Students will analyze classic and contemporary American literature. Students will write for a variety of audiences and purposes with a concentration in persuasive writing and research-based argument writing aligned with MLA standards. The course requires students to develop competence in speaking and listening as tools for learning and communicating. Additionally, students will take a diagnostic ACT English test and follow an individualized study path designed to help them improve their ACT score.

English IV (On-Level, Dual Enrollment, Advanced Placement)
Grade 12
Students will analyze a wide range of British literature from many different periods. Additionally, it is designed with the goal of demonstrating college-ready proficiency in research and writing skills by having students explore a particular topic or career path. Students will present their research findings in a formal paper in the first semester and will deliver an oral and visual presentation to a panel of teachers in the second semester.

Students enrolled in Publications I-IV courses below will be required to attend activities/events which may fall outside of the school day. Parental permission is required.

Publications I: Yearbook
Grades 10-12
Recommendation: C average in English
Publications I is an introductory course which introduces the student to the fundamentals of journalistic procedures as they apply to yearbook production. This course provides hands-on experience, terminology, interviewing, basic layout design, and photography techniques, as well as copywriting utilized in printed publications.

Publications II: Yearbook
Grades 10-12
Prerequisite: Publications I
Publications II is an advanced course which introduces students to money management, sales, theme selection, intricate layout design, and advanced photography techniques, copy writing, feature writing, and other aspects of print production.

Publications III: Yearbook
Grades 10-12
Prerequisite: Publications II
A continuation of Publications II.

Publications IV: Yearbook
Grades 10-12
Prerequisite: Publications III
A continuation of Publications III.

Speech I
Grades 9-12
Speech I is an introductory course designed to teach students the fundamentals of public speaking as well as how to communicate on a social and professional level. Students will be exposed to writing, practicing, and presenting all types of speeches in front of their classroom audience, which will prepare them for advancement to Speech II as well as real-world situations outside the classroom. Students in all career paths should take this course.

Technical Writing
Grade 11- 12
Students will enhance writing and editing skills related to the many types of business and technical writing. Students study and develop a variety of documents generated in business and industry, such as business manuals, emails, reports, presentations, letters, newsletters, flyers, personal memoirs, comic strips, advertisements, public service announcements, and business proposals. Students also apply research skills to plan a career path and an employment portfolio.

FAMILY AND CONSUMER SCIENCE

Baking and Pastries
Grades 10-12
Limited Availability- Enrollment preference is given to students on the TOPS Tech Hospitality Pathway Baking and pastries teaches students the fundamentals of food safety, baking principles, mixing and cooking methods, and measurements. Students learn to bake a variety of breads and pastries.

Child Development
Grades 9-12
Child Development is an introductory course designed to teach students basic information regarding the development of children from the prenatal stage through adolescence. Topics focus on all areas of growth and development of the infant through school-aged children. Emphasis is placed on projects conducted throughout the semester.

Family and Consumer Science
Grades 9-12
FACS emphasizes skills for teens managing their daily lives. Making decisions, effective communication, clothing care, food preparation techniques, interior design, household safety, budgets, careers, and childcare guidelines are covered.

Food and Nutrition
Grades 10-12
Certification Opportunity: ServSafe Handler
Food and Nutrition is an introductory course designed for students to explore the relationship of nutrition to health and well-being. Labs are designed to reinforce class lessons and to teach basic cooking skills.

Foundations of Education
Grades 9-12
A survey of factors influencing development of the modern education system. This includes major social, political, religious, and intellectual movements. The course covers education's major stakeholders, organizational structures, and determining the purpose and goals of public education.

Multicultural Studies
Grades 9-12
An introduction to working with children and young adults with exceptional learning attributes, including special education services, English Language Learners, and other internal and external factors that influence learning and social development. The course will address understanding community resources, and their organization and legal aspects such as special education, inclusion classrooms, accommodations/modifications, and advocacy will be included.

ProStart I
Grades 11-12
Prerequisite: Food & Nutrition
Certification Opportunity: ServSafe Manager and ProStart
ProStart I is a course which is part of a of a two- year program that prepares students for careers in the food service industry. Topics covered include customer service, food/kitchen safety, foodservice equipment, nutrition, business mathematics, managing foodservice costs, and career preparation. Advanced food preparation techniques will be taught.
Note: All students must take the national certification exam- ServSafe and ProStart

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ProStart II
Grades 11-12
Prerequisites: ProStart I and ServSafe Manager
Certification Opportunity: ProStart National Certificate of Achievement (Requires 400 hrs Field Experience)
ProStart II is an advanced course, which prepares students for careers in the food service industry. Topics covered include career preparation, history and art of foodservice, the lodging industry, marketing/menu development, purchasing/inventory control, accounting practices, tourism, and customer communication. It is highly recommended for students to get a job in food service while taking this course.
Note: All students will take the national certification exam.

FINE ARTS

Art I
Grades 9-12
Required: Purchase of basic art supplies based on the teacher supply list
Art I is an introductory course open to all students. Drawing expertise is not required. The student is introduced to the elements and principles of design. Composition and creative thinking are developed through a variety of projects, including drawing, painting, sculpture, printmaking, and ceramics.

Art II
Grades 9-12
Prerequisite: Art I
Required: Purchase of basic art supplies based on teacher supply list
Students review and apply knowledge of the art elements and principles of design. The first semester of Art II further develops technical skills in drawing from observation using a variety of new media and creative approaches to composition, such as: charcoal, watercolor, India Ink, chalk pastel, colored pencil, and printmaking. The second semester of Art II focuses on 3D-Design and Sculpture using found objects, wood, paper, cardboard, Styrofoam, plaster, and ceramics.

Art III
Grades 9-12
Prerequisite: Art II
Required: Purchase of basic art supplies based on teacher supply list
This is a painting class. Art III reinforces skills of drawing within the discipline of painting. Students will explore techniques in watercolor, India ink, tempera, acrylic, and oil paint. Art III students will also participate in various local and national art contests.

Art IV
Grades 10-12
Prerequisite: Art III
Required: Participation in Senior Art Show; purchase of art supplies
This course provides the advanced art student the opportunity for portfolio development. The first semester of Art IV focuses on creating a breadth of work – a variety of content prompts and media. The second semester of Art IV is Senior Project Concentration. Students will create a series based on a concept of their own design to produce a whole body of work.

Dual Enrollment Art History
Grades 10-12
This course is the chronological study of the visual arts from the Pre-historic to the Pre-Renaissance and introduces the origins and the historical development of art including sculpture, painting, and architecture. Additionally, we will look at the various geographic, economic, cultural, social, and religious aspects which influence its appearance.

Fine Arts Survey
Grades 9-12
Fine Arts Survey is an introduction to all the arts: art, theater, and music. This course will explore major periods, movements, artists, composers, and performers from Prehistory to the 21st century. It will also increase the students' appreciation for the synthesis of different art forms. Students will learn how the arts have become a global and cross-cultural institution.

All Band, Color Guard, Choir and Talented Music classes are performance classes. Band/choir students will be challenged to achieve mastery and musical expertise. Participation in after-school rehearsals and performances is mandatory and is factored into the student's grade for the course.

Band, Intermediate Band, Advanced Band, Wind Ensemble, Jazz Ensemble
Grades 9-12
Required: Band Fee and/or auditions may be required
You will be placed in the appropriate band course based on the band director's recommendation.

Color Guard I, II, III, IV
Grades 9-12
You will be placed in the appropriate course based on the band director's recommendation.

Advanced Choir I, II, III, IV
Grades 9-12
Advanced Choir is designed for students interested in developing their vocal technique and musicianship through ensemble singing. No audition is required. Students will develop skills in music theory, sight-reading, ear training, music history, and healthy vocal technique while preparing and performing a variety of choral literature.

Piano
Grades 9-12
Piano is designed for students with little or no prior piano instruction. Students will develop basic piano skills through daily practice at individual keyboards while learning music theory, sight-reading, ear training, and music history. Students do not need to own a piano/keyboard.

Theatre I (On-Level, Dual Enrollment)
Grades 9-12
Theatre I course that covers the principles of stage movement, vocal projection, diction, and pantomime. Students will become familiar with the history and vocabulary of Theatre as well as techniques for overcoming stage fright and gaining confidence in performance/presentation settings. Through a variety of scenes/monologues, students will research character development, setting, tone, and text interpretation. Students will create/perform original scripts/monologues.
Note: Dual-Enrollment is a self-pay option for this course which costs $275.

Talented Art I, II, III, IV
Grades 9-12
Requires a current IEP identifying the student as a Talented Art student.

Talented Music I, II, III, IV
Grades 9-12
Requires a current IEP identifying the student as a Talented Art student.

Talented Theatre I, II, III, IV
Grades 9-12
Requires a current IEP identifying the student as a Talented Art student.

WORLD LANGUAGES

French I, II
Grades 9-12
French I & II are introductory courses that cover basic conversation, listening skills, reading, writing, and translating. Cultural awareness activities are also included. The primary goal of French is to build a foundation of vocabulary and grammar in preparation for higher-level courses. Cultural awareness activities include an overview of France, Paris (its points of interest), the provinces of France (specific foods, places to visit), and French-speaking areas outside of France (where they are, their attractions, traditions).

French III, IV, V
Grades 10-12
French III-V are advanced-level course that deepens the proficiency begun in earlier levels, focusing on complex grammatical concepts in written, oral, and comprehension contexts. Cultural study includes an overview of history, with its connection to literature. Students explore the literary works: Le Petit Prince and Les Misérables. They also learn about the 19th-century impressionist art, and specific artists' styles and characteristics, with a final project devoted to one artist and a chosen work, which each student endeavors to duplicate.

Spanish I, II
Grades 9-12
Spanish I &II are introductory course designed to teach students the language through writing, speaking, listening and reading. Students will be exposed to the culture of Spanish-speaking countries. They learn to communicate in the target language using greetings, present tense verb conjugation, and vocabulary. These courses teach basic grammatical concepts.

Spanish III, IV, V
Grade 10-12
Spanish III-V are accelerated courses designed to give students more opportunities to use the language. Students give presentations in Spanish and tell stories in the target language. New grammatical concepts are introduced, and the students demonstrate a more sophisticated use of the language in reading, writing, and listening activities.

INDUSTRIAL ARTS

Basic Technical Drafting
Grades 9-12
Certification Opportunity: AutoCad
Basic Technical drafting is a course designed to study the technical elements of drafting; including instruments, lettering, sketching, applied geometry, projections, pictorial representation, dimensioning, sectioning, symbols, and auxiliaries. Students will be exposed to AutoCAD software to prepare for more advanced computer-assisted drafting and design.

Advanced Technical Drafting
Grades 9-12
Prerequisite: Basic Technical Drafting
Certification Opportunity: Inventor
CMAD drafting is a mid-level continuation of Basic Technical Drafting,

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Automotive Tech I and II
Grade 12
Required: Materials fee
Certification Opportunity; Engine repair and Maintenance
Students receive specialized instruction and practical shop experience in the servicing/maintaining of automobiles.
Note: This is an off-campus course. Students must be able to provide their own transportation.

DE HVAC I and II
Grade 12
Required: Materials fee
Certification Opportunity; NCCER Level 2 HVAC
This course is offered on the NTCC campus. This suite of college courses provides specialized instruction and practical shop experience to prepare individuals for employment as entry-level air conditioning and refrigeration technicians.
Note: This is an off-campus course. Students must be able to provide their own transportation.

Note: There is limited availability for the Carpentry and Welding classes listed above. Enrollment preference is given to students on the TOPS Tech Pathway.

Carpentry (Dual Enrollment Opportunity)
Grades 10-12
Certification Opportunity: Core Certification
Students complete the Helper pathway including introduction to carpentry, building materials, fasteners, adhesives, hand/power tools, construction drawings, specifications, layouts and wall systems essential to entry-level employment.

Welding I (Dual Enrollment Opportunity)
Grades 10-12
Certification opportunity: Core Certification and Welding Level I
This course provides the skills for a career in basic entry-level welding. The course emphasizes developing skills and understanding of the welding field. Students may accumulate up to 5 college credits.

Welding II (Dual Enrollment Opportunity)
Grades 11-12
Prerequisite: Welding I
Certification opportunity: Welding Level II
This class is an advanced-level course designed to use and reinforce the skills acquired in Welding I. may accumulate up to 5 college credits.

MATHEMATICS

Algebra I (On-Level, Honors, Resource)
Grades 9-12
Honors: Must meet rubric requirements for entering Freshmen
This introductory course includes understanding the use of the language of algebra and the integration of algebra with other mathematics. It includes working with properties of real numbers, sets and set notation, equations and inequalities, graphing, systems of equations, relations and functions, rational expressions, and quadratic functions.

Geometry (On-Level, Honors, Gifted, Resource)
Grades 9-12
Prerequisite: Algebra I
Geometry is an introductory course designed to expose students to Euclidean Geometry. Students will be exposed to investigations of transformations, and congruence and similarity of plane figures, such as lines, triangles, polygons and circles. Students will be guided on how to prove these concepts through the use of logical arguments. Properties of 3-dimensional figures and conditional probability will also be studied. This course will prepare students for Algebra II.

Algebra II (On-Level, Honors, Gifted)
Grades 10-12
Prerequisite: Algebra I
This advanced course includes relations and functions, graphing quadratic, rational, radical, absolute value, exponential, and logarithmic functions with transformations. It also includes solving quadratic equations by factoring, completing the square and using the quadratic formula, conic sections, and exponential and logarithmic functions.

Algebra III
Grades 11-12
Prerequisite: Algebra II
Algebra III is an advanced level course. Students will solidify topics learned in Algebra II, while focusing on work with many types of functions such as polynomial, rational, radical, exponential, and logarithmic. Modeling real-life problems and fitting data to those models will be an integral component of this course. This course will give students the work needed in preparation for College Algebra.

College Algebra Dual Enrollment
Grades 11-12
Prerequisite: Algebra II
Required: University Course Fee, MathXL fee
College Algebra DE is an advanced, college-level course whose requirements are set by the university. It 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. This class satisfies the requirements for high school credit in Algebra III and college credit in College Algebra. The course is taught in a traditional manner but all homework, quizzes, and tests are delivered through Math XL. Students will pursue 3 hours of college credit in College Algebra (SLU Math 161). This is a 3-credit hour course, taught for a full year. This is a rigorous, fast-paced course. This is an excellent choice for non-STEM related college majors, nursing, and non-math or science education majors.

Pre-Calculus Advanced Placement
Grades 11-12
Prerequisite: Algebra II
Recommended prerequisite: Grade of B or higher in Algebra II-H or Algebra II-G
In AP Pre-Calculus, students explore everyday situations using mathematical tools and lenses. Through regular practice, students build mastery of modeling/functions, and they examine scenarios through multiple representations. They learn how to observe, explore, and build mathematical meaning from dynamic systems, an important practice for thriving in an ever-changing world. Specific topics include Polynomial and Rational Functions, Exponential and Logarithmic Functions, Trigonometry and Polar Functions, and Functions involving Parameters, Vectors, and Matrices.

Trigonometry Dual Enrollment
Grades 11-12
Prerequisite: College Algebra Dual Enrollment
Required: University course fee, and MathXL fee
Trigonometry DE is an advanced, college-level course whose requirements are set by the university. Topics include the laws of sine/cosine, the trigonometric functions and their graphs, inverse trigonometric functions, trigonometric identities and equations. Trigonometry and trigonometric functions will be used to model and solve real world applications. The course is taught in a traditional manner but all homework, quizzes, and tests are delivered through Math XL. This is a rigorous, fast-paced course designed for students interested in STEM college majors.

Probability and Statistics Dual Enrollment
Grade 12
Prerequisite: College Algebra or >28 math ACT and high school GPA ≥ 2.5
Required: University fee, and MathXL fee
Probability & Statistics DE is an advanced, college-level course whose requirements are set by the university. Topics include an introduction to statistical reasoning, graphical display of data, measure of central tendency and variability, sampling theory, the normal curve, standard scores, Chi Square, and correlation techniques. This class satisfies the requirements for high school credit in Probability & Statistics and college credit in Elementary Statistics. The course is taught in a traditional manner but all homework, quizzes, and tests are delivered through Math XL. Students will pursue 3 hours of college credit in Elementary Statistics (SLU Math 241

Calculus Advanced Placement AB
Grades 11-12
Prerequisites: Pre-Calculus
Required: Completion of summer review packet, course fee
AP Calculus is an advanced course designed to introduce students to differential and integral calculus concepts. Students will be exposed to limits, first and second derivatives, integrals, and the Fundamental Theorem of Calculus, all of which will prepare them for post-secondary mathematics. This course is designed for self-motivated, self-disciplined students who are interested in taking the Advanced Placement Calculus Test to earn college credit for first semester college calculus. The test score necessary to earn college credit is determined by individual colleges/universities.

Calculus Advanced Placement BC
Grades 11-12
Prerequisites: Calculus Advanced Placement AB
Required: Completion of summer review packet, course fee
AP Calculus BC is a continuation of AP Calculus AB

Applied Calculus Dual Enrollment
Grade 12
Prerequisite: College algebra or >28 math ACT and high school GPA ≥ 2.5
Required: University fee, and MathXL fee
Applied Calculus DE is an advanced, college-level course whose requirements are set by the university. It is an introduction to differential and integral calculus. Topics include limits, the derivative, applications of the derivative, antiderivatives, the definite integral and the Fundamental Theorem of Calculus. Polynomial, rational, radical, exponential, and logarithmic functions will be studied. This class satisfies the requirements for both high school and college credit in Applied Calculus. The course is taught in a traditional manner but all homework, quizzes, and tests are delivered through Math XL. Students will pursue 3 hours of college credit in Applied Calculus (SLU Math 163).

Financial Literacy
Grades 9-12
This course focuses on personal finance. Students will explore important life skills through mathematical applications. Topics address decision making and personal responsibilities such as understanding paychecks and income, budgeting, banking, credit, loans, buying a house, buying a car, insurance, and investments.
Note: This is required for graduation beginning with the Class of 2028. TOPS Tech students must sit for the course. ONLY TOPS University students have the option to take this course or a proficiency test to earn credit.

Business Math
Grade 12
Prerequisite: Algebra I
This advanced course focuses on math in business situations. Students will explore how businesses function through math applications. Topics include all facets of managing a business such as personnel, production, purchasing, sales, marketing, storage, distribution, services, accounting, and planning.

HEALTH AND PHYSICAL EDUCATION

Physical Education I, II, III, IV
Grades 9-12
The curriculum consists of flag football, softball, ultimate Frisbee, volleyball, basketball and physical/motor fitness, etc. These courses emphasize the importance of physical fitness and conditioning.
Note: PE II is a half-credit, one nine-weeks course, paired with Health Education in the same semester.

Health Education
Grades 9-12
This course is designed to motivate and assist students to maintain and improve their health, prevent disease and reduce health-related risk behaviors.
Note: Health Education is a half-credit, one nine-weeks course, paired with PE II in the same semester.

Conditioning I, II, III, IV
Grades 9-12
Required: Athletes only
Conditioning courses include sport specific conditioning/training to prepare athletes for competition in a chosen sport.

JUNIOR RESERVE OFFICER TRAINING CORP (JROTC)

JROTC I (2 Semester Course)
Grades 9-12
This course is designed to teach cadets leadership skills, military customs and courtesies, health and physical fitness. This course will prepare them to hold positions of leadership within the battalion leading fellow cadets.

JROTC II (2 Semester Course)
Grades 9-12
This mid-level course is designed to teach cadet physical fitness lessons, problem solving, wellness, first aid and government. This course will prepare them to hold positions of leadership within the battalion leading fellow cadets.
NOTE: Completion of JROTC I and JROTC II satisfies the PE and Health Requirements for Graduation

JROTC III (2 Semester Course)
Grade 11
This course is designed to access active leadership and leadership application techniques taught in JROTC I and II. Cadets learn effective communication, physical fitness, military heritage, decision making, time/financial management. Students will begin exploring their career interests for post high school pursuits.

JROTC IV (2 Semester Course)
Grade 12
This advanced course is designed to give the cadets an understanding of leadership principles by learning and assessing various leadership styles, power bases and influences. Cadets will learn various management and communication skills needed to become an effective leader. Cadets will also learn to conduct a service-learning project.

SCIENCE

Physical Science (On-Level, Honors)
Grade 9

Physical science includes concepts from of chemistry and physics. Students will discover themes of how the physical world works through theoretical and practical laboratory experiences, concentrating on developing scientific skills: observing, inferring, data collecting, and graphing. Topics covered include: understanding the mechanics of the Periodic Table of Elements, Ionic and Covalent Bonding, States of Matter, Physical and Chemical changes and Nuclear Chemistry. Second semester will concentrate mostly on physics, focusing on Newton's laws, Potential and Kinetic Energy, Transfer of energy, Sound /Light Waves, Forces and Electricity.

Biology I (On-Level, Honors)
Grades 9-10
Prerequisite: Physical Science and Algebra I
Physical Science pre-requisite may be waived for the following:

- ***Academically Gifted Students; or***
- ***Students who scored advanced on the 7th grade Science LEAP and made an A in 8th grade science***

This introductory course provides students with an overview understanding of the principles of living things, focusing specifically on concepts of evolution, cells and tissue structuring, cellular respiration/photosynthesis, disease transmission/inheritance, and ecosystem interactions. This course heavily relies on the use of the following skill sets: high level critical thinking, basic level algebraic skills, graph production, and data analysis. These skills are developed and used to help students to drive their own hypotheses and conclusions using scientific inquiry.

Chemistry (On-Level, Honors)
Grades 11-12
Prerequisite: Enrollment in or completion of Algebra II. Physical science recommended.

Chemistry is a mid-level course designed to explore the fundamental principles of chemistry which characterize the properties of matter and how it reacts. Basic algebraic skills are necessary for this course. Laboratory experiences, demonstration, and problem solving are stressed. Topics include, but are not limited to measurement, atomic structure, electron configuration, the periodic table, bonding, gas laws, properties of liquids and solids, solutions, stoichiometry, reactions, kinetics, equilibrium, acids and bases, and nuclear chemistry. Content covered in this course will prepare students for both Biology II and Physics.

Astronomy
Grades 10-12
Recommended Prerequisites: A grade of C or higher in Algebra I and Physical Science

Astronomy is an introduction to astronomical concepts and scientific practices and includes observational labs. Students should have a decent grasp of high school algebra and physical science to do well in the course. The first half of the course covers Planetary Astronomy including the night sky, constellations and seasons, telescopes and visual astronomy, astrophotography, the Earth, Moon, and Solar System, the history of astronomy, gravity and light, and the laws of orbital mechanics. The second half will cover Astrophysics and Cosmology including stellar formation and evolution, radio and gravity wave astronomy, galaxies, the origins and evolution of the Universe, black holes, and the theory of relativity.

Biology II Advanced Placement
Grades 11-12
Required: B average in Biology H and Chemistry H, course fee

AP Biology is an advanced level course equivalent to a collegiate general biology course. Challenging content, rigorous pace, extensive lab work and a significant time commitment should be expected. The textbook and labs conducted are equivalent to those done by college students. AP Biology is a course that aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal with the rapidly changing science of biology.

Biology II Dual Enrollment
Grades 11-12
Prerequisite: B or higher in Honors Chemistry I or recommendation
Required: University course fee
Biology II Dual Enrollment is an advanced course focusing on cell and molecular processes, including a study of biological molecules, cell structure/function, cellular respiration, photosynthesis, cell reproduction and genetics. Evolution, diversity of life, plant and animal form/function, and ecology are among topics covered. The course involves extensive, college-level lab work, and students are required to write scientific lab reports to receive the lab credits.

Environmental Science (On-Level, Honors)
Grades 9-12
Environmental Science is an intro-level course that examines the processes at work in our natural environment, how we use those natural systems and the resources they provide, and the human impact on those systems. The course includes discussions of Earth's systems, ecology, biodiversity, resource use, pollution, and sustainability. Emphasis will be placed on introductory concepts connected to larger and more complex environmental systems such as how the carbon cycle affects air pollution and global warming.

Forensic Science
Grades 11-12
Practical-based course. Students will learn and practice the skills used by forensic techs and crime scene investigators. Includes a field trip STSPO crime lab and guest speaks from the coroner's office. Topics include hair, fiber, and fingerprint analysis; glass fracture and ballistics; blood serology and spatter; foot treads; handwriting; DNA fingerprinting; and death investigation and autopsy.

Physics I Advanced Placement
Grades 11-12
Required: Teacher Recommendation
AP Physics 1 is an advanced level course equivalent to a first-semester college course in algebra-based physics. It is recommended for the above average student who has a strong background in honors math and science classes. Students will investigate the natural laws of physics and their application to everyday occurrences through advanced mathematics, problem solving and critical thinking. Topics include Newtonian mechanics, work, power, energy, mechanical waves, sound, and an introduction to electric circuits.

Physics (Honors)
Grades 11-12
Requirement: Teacher Recommendation
Physics Honors is an advanced level course recommended for the above average student who has a strong background in honors math and science classes. Laboratory experiences, demonstration, and problem solving are stressed. Basic algebraic skills are necessary for success in this course. This course covers the same material as Physics, but at an advanced level and at an accelerated rate and is designed for those students who exhibit interest in science.

Anatomy & Physiology (Honors)
Grades 11-12
Required: Grade of B or Better in both Biology and Chemistry
This is an advanced level for students interested in pursuing a degree in the health sciences, Biological sciences, or a nursing field. The course focuses on anatomical terminology, anatomical identification, and physiological processes of human body systems. Students enrolled in this course should realize that this course requires an extensive amount of time, effort, reading, and memorization. Successful completion of this course requires dedication and commitment.

Health Science I (Health Occupations)
Grades 9-12
Health Occupations is an introductory course for students interested in the health care fields. The four career clusters will be explored. Students will also be taught employment and soft skills such as resume writing, recognizing reportable behavior, and interviewing techniques.

Medical Terminology
Grades 10-12
Dual Enrollment Opportunity (subject to tuition)
Prerequisite: Health Science I (Health Occupations)
Students will develop study skills needed to determine language of health care professions. Concentration of pathology, diagnostic and therapeutic techniques in human body systems will be the main focus of this course.

Lab Assistant-Course of Independent Study in Science
Grade 12
Required: Teacher or Dept. Chair Recommendation
Lab Assistant is an advanced level course for students interested in science. Students work independently to prepare lab solutions and materials, set up labs and assist during labs for a variety of science disciplines. Students will learn how to work with other students as they assist during the lab classes.

First Responder
Grades 11-12
Certification Opportunity: EMR and Basic Life Support
This mid-level course introduces students to basic assessment of medical/trauma injuries and hands-on techniques used for patient care. Legal and psychological aspects of emergency medicine are included. CPR and first aid certification may be earned through the AHA, as well as licensure in EMR. Gatekeeper Course for students on the Health Science Pathway: EMT, CCMA, PPN courses.
Note: The Bureau of EMS does not allow for scholastic or physical accommodations.

Pre-Practical Nursing Dual Enrollment I
Grade 11
First of three-year program
Required: High school GPA > 2.0; Pre-ACT: Math-19, Reading-18, Language-14; counselor recommendation, application, interview, parent meeting, and tuition payment
This course sequence provides high school students an opportunity to advance their education and skills by completing the courses of the first semester of the traditional Practical Nursing Program during their Junior and Senior year of High School. This will allow them an accelerated (12 months / 3 semesters) completion of the Practical Nursing Program after high school graduation. This theory class will be a hybrid of synchronous online lectures and face to face experience at the Lacombe campus. Online simulation will also be used to supplement and enhance learning. Students complete LPN licensure after three-year program.
Note: Must attend NTCC after graduation to complete 3rd year

Pre-Practical Nursing Dual Enrollment II

Grade 12

Second of three-year program

Required: Pre-Practical Nursing Dual Enrollment I grade of C or 80 out of 100, tuition payment

This course sequence provides high school students an opportunity to advance their education and skills by completing the courses of the first semester of the traditional Practical Nursing Program during their Junior and Senior year of High School. This will allow them an accelerated (12 months / 3 semesters) completion of the Practical Nursing Program after high school graduation. The first semester is another theory course and the second semester will be clinical education in a nursing home setting. Online simulation will also be used to supplement and enhance learning. Students complete LPN licensure after three-year program.

Note: Must attend NTCC after graduation to complete 3rd year

EMT Basic Dual Enrollment

Grade 12

Prerequisite: 1st Responder Certification (EMR)

Certification Opportunity: Emergency Medical Technician (EMT)

Required: Meet DE eligibility Requirements

All students in this course will be dually enrolled with Northshore Technical Community College and students must adhere to the college attendance policy. All students pursuing the Emergency Medical Responder certification must be a senior in high school and at least 16 years of age by the scheduled end date of the EMT course. Students must pass both a psychomotor exam and a cognitive exam in order to attain certification. To be eligible to enroll in an EMS course in Louisiana, the applicant must:

1. Hold an active Emergency Medical Responder certification.
2. Complete a NTCC Dual Enrollment Application
3. Be proficient in reading, writing, and speaking the English language.
4. Must have a 2.0 cumulative GPA prior to entering the EMT program and maintain a
5. 2.0 course GPA while in the program.
6. Must possess a current AHA BLS CPR (or equivalent) card.
7. Have no physical or mental impairment that would render the student unable to perform all practical skills required for the level of licensure without accommodation.
8. Not have an arrest/conviction record that has not been cleared by the EMS Certification Commission.
9. Maintain a professional appearance in line with local EMS expectations and in accordance with the local school district policy.
10. Not be under the influence of any drugs or intoxicating substances that impair the ability to provide patient care or operate a motor vehicle while in class or clinicals, while on duty, when responding to, or assisting in the care of a patient.
11. Review and attest in writing their acceptance and understanding of the EMT Functional Position Statement.
12. Review and attest in writing receipt of an agreement to adhere to the policies contained in the Dual Enrollment EMS Program Student Handbook.
13. Documentation from a physician attesting to the students' ability to perform the duties of an Emergency Medical Technician Responder (physical exam.)
14. This advanced course prepares students to work as an Emergency Medical Technician who provides attention as patients are transported to medical facilities.

Note: This is a two semester, yearlong course. Upon completion of the course and required Clinical hours, students will earn 5 certifications, 2 high school credits and 6 college credits through Northshore Technical Community College.

ENGINEERING

PLTW Engineering courses engage students in interdisciplinary activities like working on a project design team, programming electronic devices, or creating a solar vehicle. These activities not only build knowledge and skills in engineering, but also empower students to develop essential skills such as problem solving, critical and creative thinking, communication, collaboration, and perseverance. Students will learn and apply an engineering design process and utilize the same industry-leading technology and software that are used in the world's top companies.

Principles of Engineering Design (Engineering I)
Grades 9-11
Certification Opportunity: AutoDesk Inventor

Principles of Engineering Design is an introductory elective course designed to allow students to dig deep into the engineering design process, applying math, science and engineering standards to hands-on projects. This course is designed to expose students with a high aptitude in mathematics and science to the rigors of an engineering field as they work individually and in teams on design solutions of a variety of problems. Topics covered in this course are Engineering Design Process, Technical Sketching, Measurement and Statistics, Computer Modeling Skills, Geometry of Design, Reverse Engineering, and Documentation. Students will utilize 3D modeling software, AutoDesk Inventor, and use an engineering notebook. Documentation of the design process, collaboration, and presentation skills gained in this course will prepare students for Principles of Engineering, the second course in the series. Students with a serious interest in a career in the fields of engineering or engineering technology should take this course.

Engineering Design Principles (Engineering II)
Grades 10-12
Prerequisite: Successful Completion of **Principles of Engineering Design (Engineering I)**
Certification Opportunity: AutoDesk Inventor

Engineering Design Principles is an elective course designed for students with a high aptitude in mathematics and science interested in pursuing a career in science, technology, engineering and math. This course will expose students to a broad range of engineering topics including Newtonian mechanics, thermodynamics, strength of structures and materials, automation, energy and power, electronics, control systems, and kinematics. Students will continue to develop skills in problem solving, research, design process and documentation as they complete a variety of task-oriented projects throughout the course. This course is the second in a series of two for students that have a serious interest in pursuing a career in the fields of engineering or engineering technology.

Note: This course can be taken in lieu of Physical Science

Engineering III
Grade 12
Prerequisite: Successful Completion **Engineering I and II**

Engineering III gives students an opportunity to exercise the skills developed in not only your PLTW classes, but other classes, as well as personal experiences. This is a student driven course that requires students to work in a team, using the unique knowledge and skills of each member, to identify and solve a problem. Students will complete research, design and test a prototype or model of a solution, evaluate the results, and analyze data—documenting each step along the way. As part of a team students will create an original authentic product or solution to a chosen problem. Capstone is the culminating course for students with a serious interest in a career in the fields of engineering or engineering technology.

SOCIAL STUDIES

European History Advanced Placement
Grade 12
AP European History is an introductory college-level European history course. Students cultivate their understanding of European history by 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.

Government
Grade 10
Government is an introductory level course designed to make students become informed citizens by exploring the goal of a "more perfect union" and the role of the individual in the decision-making process of the United States government. They will learn about the foundations, structure, and functions of the US government, politics and the role of the citizen, economic concepts, and financial literacy. Students are expected to present their work in a variety of formats including formal essays and presentations, informal discussion, and/or creative projects.

Government Advanced Placement
Grades 10-12
This course is the high school equivalent to a college introductory course in United States government and politics. It is an analytical look at the institutions, groups, beliefs and ideas that constitute U.S. politics.

Human Geography Advanced Placement
Grades 9-12
Learn about the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface; use spatial concepts and landscape analysis to examine the human social organization and its environmental consequences and learn about the methods and tools geographers use in their science and practice; study the distribution, processes, and effects of the human population on the planet; learn how to use and interpret maps, data sets, geographic models, GIS, aerial photographs, and satellite images—primarily offered to 9th grade as an introductory AP course.

Law Studies
Grades 11-12
Prerequisite: Government
Law studies is an introductory course designed to increase understanding of citizens' basic legal rights and responsibilities. Students should have taken U.S. Government prior to taking Law Study. Students will be exposed to local, state, and federal law, as well as Constitutional law and a review of Supreme Court cases. Law studies will prepare students for further study as consumer and court advocates, paralegal studies, pre-law and criminal justice.

Psychology (On-Level, Dual Enrollment, Advanced Placement)
Grades 11-12
Psychology is a mid-level course designed to promote the scientific approach to the study of both animal and human behaviors and mental processes. Through the study of Psychology, we are better able to understand how the mind and body work together. This course will prepare students for college psychology. Students who are interested in Psychology, Forensic Psychology, Counseling, Public Relations, Advertising, Communications, Business, Human Resources, Tourism and Hospitality should take this course.
Note: AP and DE Psychology counts as a history course towards graduation requirements

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Sociology Dual Enrollment
Grades 11-12
Required: Course Fee; meet DE eligibility requirements
Sociology is and advanced level survey course of culture, groups, social institutions and organizations, society and the social self and identity and inequality. Emphasis is placed on living in today's world and developing a sociological perspective. This is a required and/ Social Sciences course for many degree programs at most Louisiana colleges and universities.

US History (On-Level, Dual Enrollment, Advanced Placement)
Grade 11
US History is designed to study the history of America in six units from Industrialization through the World Wars, the Cold War, and post-Cold War era to present day. Students will be exposed to primary and secondary sources, charts, graphs, and videos that will prepare them for World History and the LEAP 2025.

World Geography (On-Level, Honors)
Grades 9-12
Honors: Must meet rubric requirements for entering Freshmen
World Geography is designed to teach students about the basic principles of geography. Students will be exposed to the different cultures around the world focusing on history, current events, and the environment. Concepts and skills covered in this course will help prepare students for future Social Studies classes.

World History
Grade 12
World History is an advanced level course designed to teach students to examine the history of the world from the Renaissance to present day. Students will be taught how to properly analyze primary and secondary sources, reasoning skills, and how to form persuasive arguments, skills that will prepare them for their next course, college, or beyond.

Western Civilization I Dual Enrollment (up to 1500)
Grades 11-12
Required: University Course fee
History 1010: Western Civilization to 1500 - Catalogue Description History 1010: Western Civilization to 1500. Credit 3 hours. No prerequisites. 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. College Credit Via Dual Enrollment Because Louisiana high schools do not have a World History class equivalent to History 1010, this class usually will be offered as a television/streaming video class (for exceptions contact the Dual Enrollment Instructor of Record). The class will have four units as specified in the catalogue, each with ten about 1 hour lectures broadcast on the Southeastern Channel, and available via streaming video from the Southeastern website, and accessible through links in your CanvasDE course. To earn college credit for History 1010, students must view all forty-four lectures; complete all readings assigned by Southeastern's Department of History and Political Science; and earn a cumulative passing grade on four college-level exams and additional quizzes. The Dual Enrollment Coordinator will be instructor of record and will be responsible for quizzes, exams, grades, etc.

Western Civilization II Dual Enrollment (since 1500)
Grades 11-12
Required: University Course fee
History 1020: Western Civilization since 1500. Credit 3 hours. No prerequisites. 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. COLLEGE CREDIT VIA DUAL ENROLLMENT College Credit Via Dual Enrollment Because Louisiana high schools do not have a World History class equivalent to History 1020, this class usually will be offered as a television/streaming video class (for exceptions contact the Dual Enrollment Instructor of Record). The class will have four units as specified in the catalogue, each with ten about 1 hour lectures broadcast on the Southeastern Channel, and available via streaming video from the Southeastern website, and accessible through links in your CanvasDE course. To earn college credit for History 1020, students must view all forty- four lectures; complete all readings assigned by Southeastern's Department of History and Political Science; and earn a cumulative passing grade on four college-level exams and additional quizzes. The Dual Enrollment Coordinator will be instructor of record and will be responsible for quizzes, exams, grades, etc.