

# FONTAINEBLEAU HIGH SCHOOL

## 2023-2024

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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.

### **Career and Technical Education Compliance Notice**

Career and Technical Education courses are available at all STPPS secondary sites and are open to all students. STPPS adheres to the equal opportunity provisions of federal and civil rights laws and does not discriminate on the basis of race, color, national origin, religion, age, sex, sexual orientation, marital status, or disability.

The Title IX and Title II Coordinator is Mike Cossé, 321 N Theard Street Covington, La. 70433; phone (985) 892-2276; email Michael.Cosse@stpsb.org.

The 504 Coordinator is Cara Barry, 321 N Theard Street Covington, La. 70433; phone (985) 898-3309; email Cara.Barry@stpsb.org.

All students have the opportunity to participate in Career & Technical Programs of Study including, but not limited to, areas of Health Care, Construction Crafts & Trades, IT Computer Technology, Culinary Programs, and Agriculture. Admission requirements for each course can be found in the student course guide/schedule packet of the individual campus where the course is being offered. Please contact the guidance counselor at the specific school site for additional information, program requirements and/or any questions you may have.

### **Notificación Pública**

Cursos de carrera y educación técnica están disponibles en todos los sitios secundarios de STPPS y están abiertos a todos los estudiantes. STPPS se adhiere a las disposiciones de igualdad de oportunidades de las leyes federales y los derechos civiles y no discrimina por raza, color, origen nacional, religión, edad, sexo, orientación sexual, estado civil o discapacidad.

La coordinadora del programa de Title IX and Title II es Mike Cossé, 321 N Theard Street Covington, La. 70433; teléfono (985) 892-2276; correo electrónico Michael.Cosse@stpsb.org.

La coordinadora de las services de 504 es Cara Barry, 321 N Theard Street Covington, La. 70433; teléfono (985) 898- 3309; correo electrónico Cara.Barry@stpsb.org.

Todos los estudiantes tienen la oportunidad de participar en los programas de carrera y de estudio técnico, incluyendo pero no limitado a, las áreas de salud, artes y oficios de construcción, IT Tecnología de computadoras, programas culinarios y la agricultura.

Requisitos de admisión para cada curso pueden encontrarse en el paquete de guía/calendario del curso de la escuela donde se ofrece el curso. Póngase en contacto con el consejero de la escuela para obtener información adicional, los requisitos del programa o cualquier duda que tenga.

### **Thông Báo Hàng Năm**

Các khoá học Giáo Dục Nghề Nghiệp và Kỹ Thuật diễn ra ở các địa điểm hai của STPPS và dành cho tất cả học sinh. STPPS tuân thủ theo các quy định về cơ hội bình đẳng của luật liên bang và quyền dân sự và không phân biệt đối xử trên cơ sở chủng tộc, màu da, nguồn gốc quốc gia, tôn giáo, tuổi tác, giới tính, khuynh hướng giới tính, tình trạng hôn nhân, hoặc khuyết tật.

Điều phối viên Điều IX và Điều II là Mike Cossé, 321 N Theard Street Covington, La. 70433; điện thoại (985) 892-2276; email Michael.Cosse@stpsb.org.

Điều phối viên 504 là Cara Barry, 321 N Theard Street Covington, La. 70433; điện thoại (985) 898-3309; email Cara.Barry@stpsb.org.

Tất cả học sinh có cơ hội tham gia Chương Trình Học Nghề Nghiệp và Kỹ Thuật bao gồm nhưng không giới hạn các lĩnh vực như Chăm Sóc Sức Khỏe, Xây Dựng & Ngoại Thương, IT Công nghệ máy tính, Chương Trình Ẩm Thực, và Nông nghiệp. Yêu cầu cho mỗi khoá học có thể tìm thấy ở hồ sơ hướng dẫn khoá học và thời khoá biểu cho học sinh tại các trường tổ chức lớp học. Vui lòng liên hệ nhân viên tư vấn hướng dẫn tại các địa điểm trường học cụ thể để biết thêm chi tiết, yêu cầu chương trình và/hoặc các thắc mắc của bạn.

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## INTRODUCTION

The purpose of this guide is to help you and your parents make better decisions concerning your course selections for the coming year. It is essential that you think seriously about a particular subject before scheduling it. It is also important to use this booklet for an overall plan for your entire school career. Each class that you choose should be a part of an overall plan. Read this guide carefully and discuss your plans with your parents.

## COUNSELORS

A counselor is assigned to you and will work with you concerning your academics, vocational and career information, college and scholarship counseling, personal challenges, testing, written recommendations, and references, etc. You would be well advised to communicate your unique interests, abilities, needs, and ambitions to your counselor.

It is important to understand that the role of the counseling staff is to advise students. Students and their parents/guardians assume full responsibility for the course work 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. Also, parents and students have the responsibility to check the requirements for the college of their choice and schedule coursework accordingly.

## GRADE CLASSIFICATION

CLASSIFICATION	MINIMUM CREDITS
<b>Sophomores</b>	<b>5 Credits</b>
<b>Juniors</b>	<b>11 Credits</b>
<b>Seniors</b>	<b>17 Credits</b>
<b>Total Credits for Graduation - TOPS University Diploma</b>	<b>24 Credits</b>
<b>Total Credits for Graduation - TOPS Tech Diploma</b>	<b>23 Credits</b>

## 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: explore educational and career opportunities, make appropriate secondary/postsecondary decisions as part of an overall career plan, outline a course of study based on the student's talents and interests, and consider 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.

## 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 three exams in the following categories to graduate with either the TOPS University Diploma or the TOPS Tech Diploma: (a) English I or English II; (b) Algebra I or Geometry; and (c) Biology or U.S. History.

### Advanced Placement

AP gives students the chance to tackle college-level work while still in high school and earn college credit. Visit 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 or CLEP 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](http://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 deadlines for priority consideration. A FAFSA form *must* be electronically completed as early as October at [www.fafsa.gov](http://www.fafsa.gov). It is the student and parent's responsibility to fill out the FAFSA form by the required deadline. For more information, go to [www.fafsa.gov](http://www.fafsa.gov) or contact Ms. Matherne.

## HIGH SCHOOL GRADUATION OPTIONS

### Louisiana TOPS University Curriculum

The successful completion of the Louisiana TOPS University Diploma Curriculum requires a minimum of 24 units 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 as well as entrance to Louisiana public universities also relies on earning a minimum required GPA as well as 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 certificates 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.

## 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).

## DUAL ENROLLMENT PROGRAM (DE)

Dual Enrollment is a program that allows eligible high school students, currently attending St. Tammany Parish public or private schools, to concurrently enroll in a college course. The credits that students earn will be eligible towards both a high school diploma and college credit. To be eligible for the Early Start/Dual Enrollment Program, please see the "Eligibility Guidelines" for each institution in this Program of Study.

## SHORT DAY FOR SENIORS

Since a seven-period day schedule has been funded to enhance educational opportunities for high school students, it is the intent of the St. Tammany Parish School district to have students complete four full years of a high school education. It is strongly recommended that students who wish to get an early start in college participate in Early Start/Dual Enrollment courses or Advanced Placement courses. Seniors are **required** to enroll in five (5) classes for credit during both semesters in their senior year. If they choose to request a short day, applications are in the school counseling office. Seniors must have a minimum of 19 credits to schedule short day.

## 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.

## SCHEDULE CHANGE POLICY

Schedules will be changed only for the following reasons: Incorrect placement; a period or 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. Write your schedule change request on the form available in the school counseling office.
2. Put your request in the basket designated for your class.
3. Submit only 1 request. Be patient; we are working as fast as we can.



REVISÉD SEPTÉMBER 8, 2021

# Graduation Requirements for Entering Freshmen 2014–2015 and Beyond

SUBJECTS	TOPS UNIVERSITY DIPLOMA		CAREER DIPLOMA	
	# Units	Courses	# Units	Courses
English	1	<b>One of the following:</b> English I, English Language Part 1: Cambridge IGCSE, or English Literature Part 1: Cambridge IGCSE	1	<b>One of the following:</b> English I, English Language Part 1: Cambridge IGCSE, or English Literature Part 1: Cambridge IGCSE
	1	<b>One of the following:</b> English II, English Language Part 2: Cambridge IGCSE, or English Literature Part 2: Cambridge IGCSE	1	<b>One of the following:</b> English II, English Language Part 2: Cambridge IGCSE, or English Literature Part 2: Cambridge IGCSE
	1	<b>One of the following:</b> English III, AP English Language and Composition, IB Literature, IB Language and Literature, IB Literature and Performance, English Language Part 1: Cambridge AICE–AS (Honors), or Literature in English Part 1: Cambridge AICE–AS (Honors)	2	<b>The remaining units shall come from the following:</b> Technical Writing, Business English, English III, English Language Part 1: Cambridge AICE - AS (Honors), Literature in English Part 1AICE - AS (Honors), English IV, any AP or IB English course, English Language Part 2: Cambridge AICE - AS (Honors), Literature in English Part 2: Cambridge AICE - AS (Honors), or comparable Louisiana technical college courses offered by Jump Start regional teams as approved by BESE
	1	<b>One of the following:</b> English IV, AP English Literature and Composition, IB Literature, IB Language and Literature, IB Literature and Performance, English Language Part 2: Cambridge AICE–AS (Honors), or Literature in English Part 2: Cambridge AICE–AS (Honors)		
	<b>NOTE:</b> If a student chooses to take the A level Cambridge course, the second unit will count as an elective credit.			
Mathematics	1	Algebra I	1	Algebra I, Applied Algebra I, or Algebra I-Part 2 (The elective course Algebra I-Part 1 is a prerequisite.)
	1	Geometry	3	<b>The remaining units shall come from the following:</b> Geometry, Financial Literacy (formerly Financial Math), Math Essentials, Algebra II, Advanced Math-Functions and Statistics, Advanced Math–Pre-Calculus, Algebra III, Pre-Calculus, Business Math, Probability and Statistics, Statistical Reasoning, Transition to College Math, or comparable Louisiana technical college courses offered by Jump Start regional teams as approved by BESE. Integrated mathematics I,II, and III may be substituted for algebra I, geometry, and algebra II and shall count as three math credits. Additional Math: Cambridge IGCSE, Math 1 (Pure Math): Cambridge AICE–AS (Honors), Math 1 (Pure Math): Cambridge AICE–AS (Honors), Math 1 (Pure Math): Cambridge AICE–AS (Honors)
	1	Algebra II		
	1	<b>One of the following:</b> Algebra III, Advanced Math–Functions and Statistics, Advanced Math–Pre-Calculus, Pre-Calculus, IB Math Studies (Math Methods), Calculus, AP Calculus AB, IB Mathematics SL, AP Calculus BC, AP Statistics, IB Further Mathematics HL, IB Mathematics HL, Probability and Statistics, AP Computer Science A, Statistical Reasoning, Additional Math–Cambridge IGCSE, Math 1 (Probability and Statistics): Cambridge AICE (Honors), Math 1 (Pure Math): Cambridge AICE–AS (Honors), Math 2 (Part 1): Cambridge AICE–A Level (Honors), or Math 2 (Part 2): Cambridge AICE–A Level (Honors)		
	<b>NOTE:</b> The Integrated Mathematics I, II, and III sequence, including the Cambridge IGCSE Integrated Math sequence, may be substituted for the Algebra I, Geometry, and Algebra II sequence.			
Science	1	Biology I	1	Biology I
	1	Chemistry I	1	<b>One of the following:</b> Chemistry I, Physical Science, Earth Science, Agriscience II*, Environmental Science, Principles of Engineering, any AP or IB science course, PLTW Principles of Engineering, Principles of engineering (LSU Partnership), Physics I: Cambridge IGCSE, Biology II: Cambridge AICE–AS (Honors), Chemistry II: AICE–AS (Honors), or Physics II: Cambridge AICE–AS (Honors)
	2	<b>Two units chosen from the following:</b> (a) Earth Science; (b) <b>one of</b> Environmental Science, Environmental Awareness; (c) <b>one of</b> Physical Science, Principles of Engineering, PLTW Principles of Engineering, Principles of Engineering (LSU Partnership); (d) Agriscience II*; (e) <b>one of</b> Chemistry II, AP Chemistry, IB Chemistry I, IB Chemistry II, or Chemistry II: Cambridge AICE–AS (Honors); (f) <b>one of</b> AP Environmental Science, IB Environmental Systems; (g) <b>one of</b> Physics I, IB Physics I, AP Physics I, Physics I: Cambridge IGCSE; or (h) <b>one of</b> AP Physics C: Electricity and Magnetism, AP Physics C: Mechanics, IB Physics II, AP Physics II, or Physics II: Cambridge AICE–AS (Honors); (i) <b>one of</b> Biology II, AP Biology, IB Biology I, IB Biology II, Biology II: Cambridge AICE–AS (Honors), or Human Anatomy and Physiology		
	<b>*The elective course Agriscience I is a prerequisite for Agriscience II.</b>			
Social Studies	1	<b>One of the following:</b> U.S. History, AP U.S. History, or IB History of the Americas I	1	<b>One of the following:</b> U.S. History, AP U.S. History, or IB History of the Americas I
	1	<b>One of the following:</b> Civics, American Government, AP U.S. Government and Politics: Comparative, or AP U.S. Government and Politics: United States	1	<b>One of the following:</b> Civics, American Government, AP U.S. Government and Politics: Comparative, or AP U.S. Government and Politics: United States
	2	<b>Two units chosen from the following:</b> (a) <b>one of</b> European History, AP European History, Western Civilization, or History (European): Cambridge AICE–AS (Honors); (b) <b>one of</b> World Geography, AP Human Geography, IB Geography, Physical Geography, or Geography: Cambridge AICE–AS (Honors); (c) <b>one of</b> World History, AP World History, IB History of the Americas II, or History (International): Cambridge AICE–AS (Honors); (d) History of Religion; (e) <b>one of</b> IB Economics, Economics, AP Macroeconomics, AP Microeconomics, or Economics: Cambridge AICE–AS (Honors); (f) AP Psychology, History of Religion, or African American history*		
Health and Physical Education	0.5	Health Education	0.5	Health Education
	1.5	Physical Education I and II; Adapted Physical Education I and II for eligible students in special education; JROTC I, II, III, or IV; or Physical Education I (1 unit) and 1/2 unit of Marching Band, extracurricular sports, Cheerleading, or Dance Team	1.5	Physical Education I and one half unit from among the following: Physical Education II, Marching Band, extracurricular sports, Cheerleading, Dance Team  Adapted PE for eligible students or JROTC or may be substituted
	<b>NOTE:</b> JROTC I and II may be used to meet the health education requirement. Refer to §2347.			
World Language	2	Two units from the same language (§2345)		
Art	1	Art (§2333), Music (§2355), Dance (§2337), Theatre (§2369), Speech III and IV (one unit combined), Fine Arts Survey, Drafting, Media Arts (§2354), Photography I/II, Digital Photography, or Digital Design (§ 2338)		
Electives/ Jump Start	3	Electives	9	Jump Start course sequence, workplace experiences, and approved credentials (a minimum of one industry-based credential is required for graduation)
Total Units	24		23	

Refer to [Bulletin 741](#) and the [LDOE Graduation Requirements](#) page the most current information.

\*African American History is pending final approval through the notice of intent process.

See the [African American History course guidance](#) for specifics on this new course.



# TOPS Core Curriculum

For the Opportunity, Performance and Honors Awards  
For High School graduates of 2018 and thereafter

Units	Courses <sup>1</sup>
<b>ENGLISH = 4 Units</b>	
1 Unit	English I
1 Unit	English II
1 Unit from the following:	English III, AP English Language Arts and Composition, or IB English III (Language A or Literature and Performance)
1 Unit from the following:	English IV, AP English Literature and Composition, or IB English IV (Language A or Literature and Performance)
<b>MATH = 4 Units</b>	
1 Unit	Algebra I
1 Unit	Geometry
1 Unit	Algebra II
	Integrated Mathematics I, Integrated Mathematics II, and Integrated Mathematics III may be substituted for the Algebra I, Geometry, and Algebra II sequence
1 Unit from the following:	Algebra III; Advanced Math - Functions and Statistics, Advanced Math - Pre-Calculus, Pre-Calculus, or IB Math Methods I (Mathematical Studies SL); Calculus, AP Calculus AB, or IB Math Methods II (Mathematics SL); AP Calculus BC; Probability and Statistics or AP Statistics; IB Further Mathematics HL; IB Mathematics HL; AP Computer Science A
<b>SCIENCE = 4 Units</b>	
1 Unit	Biology I
1 Unit	Chemistry I
2 Units from the following:	Earth Science; Environmental Science; Physical Science; Agriscience I and Agriscience II (one unit combined); Chemistry II or AP Chemistry or IB Chemistry II; AP Environmental Science or IB Environmental Systems; Physics I, AP Physics I, AP Physics B, or IB Physics I; AP Physics C: Electricity and Magnetism, AP Physics C: Mechanics, or IB Physics II, or AP Physics II; Biology II or AP Biology or IB Biology II or Human Anatomy and Physiology
<b>SOCIAL STUDIES = 4 Units</b>	
1 Unit from the following:	U.S. History, AP U.S. History, or IB U.S. History
1 Unit from the following:	Civics, Government, AP U.S. Government and Politics: Comparative, or AP U.S. Government and Politics: United States
2 Units from the following:	Western Civilization, European History, or AP European History; World Geography, AP Human Geography, or IB Geography; World History, AP World History, or IB World History; History of Religion; IB Economics, Economics, AP Macroeconomics, AP Microeconomics or AP Psychology
<b>FOREIGN LANGUAGE = 2 Units</b>	
	Foreign Language, both units in the same language, which may also include the following AP and IB courses: AP Chinese Language and Culture, AP French Language and Culture, AP German Language and Culture, AP Italian Language and Culture, AP Japanese Language and Culture, AP Latin, AP Spanish Language and Culture, IB French IV, IB French V, IB Spanish IV, IB Spanish V, Mandarin Chinese I-IV, Hindi I – IV, Portuguese I-IV, Vietnamese I-IV
<b>ART = 1 Unit</b>	
1 Unit from the following:	Performance course in Music, Dance or Theatre; Fine Arts Survey; Art I, II, III, and IV; Talented Art I, II, III, and IV; Talented Music I, II, III and IV; Talented Theater Arts I, II, III, and IV; Speech III and Speech IV (one unit combined); AP Art History; AP Studio Art: 2-D Design; AP Studio Art: 3-D Design; AP Studio Art: Drawing; AP Music Theory; IB Film Study I; IB Film Study II; IB Music I; IB Music II; IB Art Design III; IB Art Design IV; IB Theatre I, Drafting, Media Arts I - IV; Photography I, Photography II, or Digital Photography
<b>TOTAL = 19 Units</b>	
<i>Please see reverse side for core (substitute) equivalents to the TOPS Core Curriculum</i>	

Core Curriculum Course(s)	Recently Approved Equivalent (Substitute) Course(s)
Art	Digital Image & Motion Graphics, Digital Storytelling, Engineering Design & Development, Sound Design
Environmental Science	Environmental Awareness
World Geography	Physical Geography
Probability & Statistics	Statistical Reasoning
Physical Science	Principles of Engineering
Calculus	Differential Calculus I Integral Calculus I

<sup>1</sup> **GIFTED COURSES:** Any core curriculum course that is taken by a student who has been identified as gifted pursuant to State Board of Elementary and Secondary Education (BESE) policy and that is taken in fulfillment of the student’s Individualized Education Plan shall be considered a “Gifted Course” and shall fulfill the core curriculum.

Beginning with students entering the 9<sup>th</sup> grade in 2014-2015 and graduating in the 2017-2018 school year and thereafter, the calculation of the TOPS Core Curriculum grade point average (GPA) will use a five- (5.00) point scale for grades earned in certain designated Advanced Placement (AP) courses; International Baccalaureate (IB) courses; Gifted courses; Dual Enrollment courses, Honors courses and Articulated courses offered for college credit by the Louisiana School for the Math, Science and the Arts used to complete the TOPS Core Curriculum. The courses currently designated to be calculated on the 5.00 point scale can be viewed at <https://mylosfa.la.gov/wp-content/uploads/2020/07/tops-university-course-requirements.pdf>. For the designated courses, five quality points will be assigned to a letter grade of “A”, four quality points will be assigned to a letter grade of “B”, three quality points will be assigned to a letter grade of “C”, two quality points will be assigned to a letter grade of “D”, and zero quality points will be assigned to a letter grade of “F”. Note that students earning credit in courses graded on the five (5.00) point scale may earn a grade point average on the TOPS Core Curriculum that exceeds 4.00.



*This core curriculum is accurate as of the date of publication and includes courses listed in TOPS statute.*

Louisiana Office of Student Financial Assistance (LOSFA)  
 A program of the Board of Regents  
 P.O. Box 91202, Baton Rouge, LA 70821-9202  
 (800) 259-5626  
 custserv@la.gov  
[www.mylosfa.la.gov](http://www.mylosfa.la.gov)



Updated: 04/09/2021





# TOPS Tech Core Curriculum

For the TOPS Tech Award – JumpStart Curriculum

**For High School graduates of 2018 and thereafter**

Students may also qualify for the TOPS Tech Award by completing the TOPS Core Curriculum for the Opportunity, Performance and Honors Awards

Units	Courses
1 Unit	English I
1 Unit	English II
2 Units	English III, English IV, AP or IB English courses, Business English, Technical Writing, or comparable Louisiana Technical College courses offered by Jump Start regional teams as approved by the State Board of Elementary and Secondary Education.
1 Unit	Algebra I; or both Algebra I, Part 1 and Algebra I, Part 2; or an applied or hybrid algebra course
3 Units	Geometry, Algebra II, Math Essentials, Financial Literacy, Business Math, Algebra III, Advanced Math -Functions and Statistics, Advanced Math - Pre-Calculus, Pre-calculus, or comparable Louisiana Technical College courses offered by Jump Start regional teams as approved by the State Board of Elementary and Secondary Education. Integrated Mathematics I, II, and III may be substituted for Algebra I, Geometry, and Algebra II, and shall equal three mathematics credits
1 Unit	Biology
1 Unit	Chemistry I, Earth Science, Environmental Science, Agriscience I and Agriscience II (both for one unit), Physical Science, Physics, or AP or IB science courses
1 Unit	U.S. History, AP U.S. History, or IB U.S. History
1 Unit	Civics, Government, AP U.S. Government and Politics: Comparative, or AP U.S. Government and Politics: United States
9 Units	In Jump Start course sequences, workplace experiences, and credentials. A student shall complete a regionally designed series of Career and Technical Education Jump Start coursework and workplace-based learning experiences leading to a statewide or regional Jump Start credential. This shall include courses and workplace experiences specific to the credential, courses related to foundational career skills requirements in Jump Start, and other courses, including career electives, that the Jump Start regional team determines are appropriate for the career major.
<b>TOTAL: 21 units</b>	



*This core curriculum is accurate as of the date of publication and includes courses listed in TOPS statute and those determined to be equivalent by the La. Board of Regents and BESE.*

Louisiana Office of Student Financial Assistance

A program of The Board of Regents

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P.O. Box 91202, Baton Rouge, LA 70821-9202 Updated: 10/01/2018



# Course Descriptions

## Agricultural Science

### **Agricultural Science I**

***Grades 9-12***

***1 Credit, Year-Long***

Agricultural Science I is an intro-level course that allows 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, small engines, leadership, wildlife conservation, meat processing, agricultural economics, plant science, animal science and sales and services. This course will prepare the students for real work experiences. Students interested in agricultural and science careers should take this course.

### **Agricultural Science II**

***Grades 9-12***

***1 Credit, Year-Long***

***Prerequisite: Agricultural Science I***

Agricultural Science II is a mid-level course that allows 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, small engines, leadership, wildlife conservation, meat processing, agricultural economics, plant science, animal science and sales and services. This course will prepare students for real work experiences. Students interested in agricultural and science careers should take this course.

### **Agricultural Science III**

***Grades 10-12***

***1 Credit, Year-Long***

***Prerequisite: Agricultural Science***

***II***

***Certification opportunity: Agriculture Technician***

Agricultural Science III is an advanced-level course that allows 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, small engines, leadership, wildlife conservation, meat processing, agricultural economics, plant science, animal science and sales and services. This course will prepare students for real work experiences. Students interested in agricultural and science careers should take this course.

## **Business Education**

### **Business Computer Applications**

***Grade 10-12***

***1 Credit, Year-Long***

***Prerequisite: IBCA***

Business Computer Applications (BCA) is an advanced elective designed to expose students to Microsoft Office Excel. Students will be exposed to basic Excel and practice real skills for real jobs. Students interested in Accounting, Business Management, Finance, Retail, and Entrepreneurship should take this course.

### **CIW Internet Business Associate**

***Grade 9-12***

***1 Credit, Year-Long***

***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. Also, 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 Site Development Associate**

***Grade 10-12***

***1 Credit, Year-Long***

***Prerequisites: CIW Internet Business Associate, CIW Network Technology Associate***

***Certification Opportunity: 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.

### **CIW Network Technology Associate**

**Grade 9-12**

**1 Credit, Year-Long**

#### ***Certification Opportunity: Network Technology Associate***

The Network Technology Associate certification program focuses on job readiness in many businesses and technology-related careers. The certification validates the knowledge of networking, Internet protocols and network security for all professionals who use the Internet. You'll also be assessed on learning essential networking technologies and skills, including TCP/IP, stable network creation, wireless networking and network troubleshooting. Other topics include basic hardware and operating system maintenance procedures, mobile computing devices and the importance of RFC documents, addressing routing, IP address classes and subnet masks.

### **Customer Service and Sales**

**Grade 10-12**

**1 Credit, Year-Long**

#### ***Certification opportunity: National Retail Federation-The Business of Retail***

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.

### **Cyber Society**

**Grade 9-12**

**1 Credit, Year-Long**

This course is an introduction to how cyberspace interacts with and changes our world. The topics covered in this class are how the internet affects Law, Politics, Terrorism, Ethics, Communities, Businesses, Artificial Intelligence, and the Media. This class is designed to give you the skills needed to understand and thrive in this increasingly online world. It also has the same goal of creating an informed and responsible citizen of the online world.

### **Entrepreneurship**

**Grade 10-12**

**1 Credit, Year-Long Prerequisite:**

***Principles of Business***

#### ***Certification opportunity: State Micro Enterprise Credential***

Entrepreneurship is an advanced business course designed to build on the knowledge obtained in the prerequisite course, Principles of Business. Students will be exposed to critical

elements of business leadership, company culture, value creation, planning for venture success and engaging with stakeholders to describe business concepts and “sell” business plans. Students that are interested in accounting, business ownership and other areas of business management should take this course.

### **Fundamentals of HTML, CSS, and JavaScript**

**Grade 11-12**

**1 Credit, Year-Long**

Fundamentals of HTML, CSS, and JavaScript is an introductory course designed to introduce students to creating interactive websites. Through the course of the year 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.

### **Principles of Visual Design**

**Grade: 9-12**

**Credit: (1) 1-Year Elective**

**Prerequisites: n/a**

**Certification opportunity: n/a**

Principles of Visual Design is an introductory course designed to give students a solid foundation in the fundamental theories of graphic design. This course also cultivates the skills that a student needs to recognize and adapt to changing design trends. Finally, this course begins to develop and instill good workplace communication habits. Students who are interested in graphic design, visual arts, marketing, and advertising should take this course. This course is also recommended for students interested in Yearbook and/or Digital Media.

### **Digital Media I**

**Grade 10-12**

**1 Credit, Year-Long**

**Certification opportunity: Adobe Certified Professional (ACP), Adobe Visual Design Specialist**

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**

**Grade 11-12**

**1 Credit, Year-Long**

**Prerequisites:** *Digital Media I, Adobe Certified Professional (ACP) certification(s)*

**Certification opportunity:** *Adobe Certified Professional (ACP) & Adobe Certified Expert (ACE)*

**Self-Directed ONLY**

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**

**Grade 12**

**1 Credit, Year-Long**

**Prerequisite:** *Digital Media I, Digital Media II, Adobe Certified Professional (ACP), certification(s)*

**Certification opportunity:** *Adobe Certified Professional (ACP) & Adobe Certified Expert (ACE)*

**Self-Directed ONLY**

Digital Media III is an advanced course designed to continue to put students graphic design training to work and teach students the ins and outs of running 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.

## **Commercial Art I**

**Grade:** (11-12)

**Credit:** (1) 1-Year Elective

**Prerequisites:** Digital Media I, Adobe Certified Professional (ACP)

Commercial Art I is an advanced course which allows students to focus and deepen their knowledge and abilities in specific aspects of production methods available at Doghouse Design, FHS's School Based Enterprise. Students are only admitted to this course with the instructor's approval.

## **Commercial Art II**

**Grade:** (11-12)

**Credit:** (1) 1-Year Elective

**Prerequisites:** Digital Media I, Commercial Art I (or concurrent), Adobe Certified Professional (ACP)

Commercial Art II is an advanced course which allows students to focus and deepen their knowledge and abilities in specific aspects of production methods available at Doghouse Design, FHS's School Based Enterprise. Students are only admitted to this course with the instructor's approval.

**Internship****Grade 12****2 Credits, Year-Long**

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.

**Introduction to Business Computer Applications (IBCA)****Grade 9-12****1 Credit, Year-Long**

IBCA is an introductory course designed to prepare students with computer application skills and touch method of operating a computer keyboard. Skills in Microsoft Word and PowerPoint applications and Google Docs and Google Slides are introduced. This is a course designed to teach students how to use the computer as a business and personal tool through the use of Microsoft Office.

**Jobs for American Graduates (JAG) I, II, III, IV****Grade 9-12****1 Credit, Year-Long****Required: 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****Grade 10-12****1 Credit, Year-Long****Certification opportunity: Regional Micro Enterprise**

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 work place 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 and finally a self-assessment with an industry professional. All students are encouraged to take this course.

**Quest for Success****Grade 9-12****1 Credit, Year-Long**

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.

**Web Design****Grade 11-12****½ Credit, Semester-Long****Prerequisite: IBCA**

Web Design is an advanced elective designed to introduce web page development. Students will be exposed to basic HTML coding then Dreamweaver MX 2004 elements and techniques which will prepare them for Basic Web Page Design. Students that are interested in Digital Design, Graphic Design, Multimedia Design and Development, or Web Design should take this course.



## **English**

### **ACT Prep**

#### **Grade 11-12**

#### ***½ Credit, Semester-Long***

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.

### **Business English**

#### **Grade 11-12**

#### ***1 Credit, Year-Long***

#### ***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**

#### **Grade 9**

#### ***1 Credit, Year-Long***

English I is an introductory course where students read, analyze and respond to literature as a record of life experiences. Students will receive instruction in combining and writing 8-12 sentence expository and persuasive paragraphs as well as 4-5 paragraph essays.

### **English I Gifted**

#### **Grade 9**

#### ***1 Credit, Year-Long***

#### **Required: Identified as Gifted by STPSB**

Freshmen identified as gifted will read, comprehend, analyze, and respond to classic and contemporary literature, including fiction, poetry, drama, and nonfiction, in a seminar-oriented class. Using the writing process, students will compose expository, literary analysis, narrative, and research-based writing. In addition to the goal of fostering college readiness through research and critical-thinking skills, students will undertake creative and affective explorations of course content and self-selected interests. Students will present their work in a variety of formats including formal essays and presentations, journals, and creative projects.

### **English I Honors**

#### **Grade 9**

#### ***1 Credit, Year-Long***

#### ***Honors: Recommendation***

English I Honors is an introductory course designed to teach students to read, comprehend,

analyze, and respond to classic and contemporary literature, including fiction and nonfiction pieces, while adhering to conventions of standard English. Using the writing process, students will compose expository, literary analysis, narrative, and research-based writing. Students will also demonstrate understanding and analytical thought in speaking and listening as tools for learning and communicating in various settings.

## **English II**

### ***Grade 10***

#### ***1 Credit, Year-Long***

English II is a mid-level course designed to teach students to 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 II Gifted**

### ***Grade 10***

#### ***1 Credit, Year-Long***

#### **Required: Identified as Gifted by STPSB**

Sophomores identified as gifted will read and analyze nonfiction, short stories, drama, poetry and selected novels of classic and contemporary literature in a seminar-oriented class. Writing will be focused on using the writing process to develop various types of essays, with a focus on rhetorical and literary analysis. In addition to the goal of fostering college readiness through research and critical-thinking skills, students will undertake creative and affective explorations of course content and self-selected interests. Students will present their work in a variety of formats including formal essays and presentations, journals, and creative projects.

## **English II Honors**

### ***Grade 10***

#### ***1 Credit, Year-Long***

#### ***Honors: Recommendation***

English II Honors is an advanced course designed to teach students to read, comprehend, analyze, and respond to classic and contemporary literature, including fiction and nonfiction pieces while adhering to conventions of standard English. Using the writing process, students will compose expository, literary analysis, narrative, and research-based writing. Students will also demonstrate understanding and analytical thought in speaking and listening as tools for learning and communicating in various settings.

## **English III**

### ***Grade 11***

#### ***1 Credit, Year-Long***

English III is a mid-level course designed to teach students to 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 III Honors**

#### ***Grade 11***

#### ***1 Credit, Year-Long***

#### ***Honors: Recommendation***

English III Honors is an advanced course designed to teach students to analyze classic and contemporary American literature. Students will take a diagnostic ACT English test and follow an individualized study path designed to help them improve their ACT score. Using the writing process, students will compose literary analysis, narrative, and research-based writing focusing on a variety of audiences and purposes. Students will also demonstrate competence in speaking and listening as tools for learning and communicating.

### **English III Advanced Placement**

#### ***Grade 11***

#### ***1 Credit, Year-Long***

#### ***College credit Opportunity***

#### ***Prerequisite: English I, II; Recommendation***

#### ***Required: course fee; AP exam***

AP English Language and Composition is an advanced course aligned to an introductory college-level class in rhetorical analysis and composition. The course engages students in the close reading and critical analysis of primarily nonfiction texts (essays, speeches, etc.) to deepen their understanding of the ways writers use language to hone a convincing argument. This course employs the use of Socratic discussion and reciprocal teaching as a means to stimulate critical thinking. Writing assignments require students to analyze and interpret nonfiction works and to craft argument papers of their own. AP Language is designed to prepare students for the Language and Composition College Board Advanced Placement Exam.

### **English III Gifted**

#### ***Grade 11***

#### ***1 Credit, Year-Long***

#### ***Identification as Gifted by STPSB***

Juniors identified as gifted will analyze classic and contemporary American literature through a seminar-oriented class. In addition to the goal of fostering AP test and college-readiness through research and critical thinking skills, students will undertake creative and affective explorations of course content and self-selected interests. Students will present their work in a variety of formats including formal essays and presentations, informal discussion, journals, and creative projects. Juniors in gifted English are eligible to take the AP test in May.

## **English IV**

### **Grade 12**

#### **1 Credit, Year-Long**

English IV (on level) is a Mid-Level course. 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.

## **English IV Honors**

### **Grade 12**

#### **1 Credit, Year-Long**

#### **Honors: Recommendation**

English IV Honors is an Advanced-Level course. 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.

## **English IV Gifted**

### **Grade 12**

#### **1 Credit, Year-Long**

#### **Required: Identification as Gifted by STPSB**

Seniors identified as gifted will analyze classic and contemporary British literature through a seminar-oriented class. In addition to the goal of fostering AP test and college-readiness through research and critical thinking skills, students will undertake creative and affective explorations of course content and self-selected interests. Students will present their work in a variety of formats including formal essays and presentations, informal discussion, journals, and creative projects. Seniors in gifted English are eligible to take the AP test in May.

## **English IV Advanced Placement**

### **Grade 12**

#### **1 Credit, Year-Long**

#### **College credit opportunity**

#### **Prerequisite: English III, recommendation**

#### **Required: Course fee; AP exam**

AP English IV Literature and Composition is an advanced course which aligns to an introductory college-level literary analysis course and uses college level texts. The course engages students in the close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. This course employs the use of Socratic discussion as a means to stimulate critical thinking as well as writing assignments that require students to analyze and interpret literary works. AP

Literature is designed to prepare students for the Literature and Composition College Board Advanced Placement Exam.

#### **English IV Dual Enrollment**

**Grade 12**

**1 Credit, Year-Long**

**College credit opportunity**

**Prerequisite: English I, II, III**

**Required: Course fee; meet DE eligibility guidelines**

English IV DE is an advanced level course focusing on composition, literary analysis and argument. The second semester entails critical reading and writing, focusing more intently on argument. Both require two timed essays and several researched essays in MLA format. The course content is determined by the university. Students should be prepared to meet college-level expectations regarding work-ethic.

#### **Technical Writing**

**Credit (1)**

**Grade: 12 R**

**Prerequisites: Working towards TOPS Tech Diploma; English I and II, Business English**

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 manual, 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 employment portfolio.

#### **Publication I: Newspaper**

**Grade 10-12**

**1 Credit, Year-Long**

**Prerequisite: C average in English**

Publications I is an introductory course covering the ethics, terminology, research, writing styles, photography, interviewing, editing, layout and ad design skills for print journalism. Students also assist in production of the newspaper.

#### **Publication II: Newspaper**

**Grade 11-12**

**1 Credit, Year-Long**

**Prerequisite: Publication I**

Publications II is an advanced level course which provides the hands-on experience of producing the student newspaper. The course covers the fundamentals of newspaper writing, photography, layout, design, advertising and other elements of newspaper production.

**Publications I: Yearbook****Grade 10-12****1 Credit, Year-Long*****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, and copy writing utilized in printed publications.

**Publications II: Yearbook****Grade 11-12****1 Credit, Year-Long*****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 and feature writing, and other aspects of print production.

## **English as a Second Language**

**ESL I, II, III**

***Grade 9-12***

***1 Credit, Year-Long***

These introductory courses develop proficiency skills in listening, speaking, reading and writing from beginning to advanced levels and expand vocabulary, grammar and reading comprehension through the content areas. Emphasis is placed upon contextual understanding, linking to real-life experiences, interactive communication and personal expression.

**Reading I, II, III**

***Grade 9-12***

***1 Credit, Year-Long***

Reading skills from beginning to advanced levels are developed through Rosetta Stone, an internationally acclaimed interactive English learning program. Students will use all four language domains of listening, speaking, reading and writing to attain higher skill levels in reading comprehension as they advance at their own pace using computer assisted language learning CD's with the accompanying student texts and workbooks.

**Study Skills I, II, III, IV**

***Grade 9-12***

***1 Credit, Year-Long***

These courses develop language survival skills for daily life and classroom work from beginning to advanced levels and provide a foundation for academic success by sharpening skills in all areas of communication. Students will gain understanding of their learning styles, how to set goals, manage time, use library resources, improve memory, take notes in class, raise scores for both objective and essay tests, strengthen reading and writing skills and use graphic aids.

Grammar practice, higher order thinking exercises and content area readings are also targeted.

Students will apply newly acquired study skills to mainstream class assignments by bringing class work into the study skills class to gain additional practice and assistance.

## **Family and Consumer Science**

### **Child Development**

**Grade 9-12**

**1 Credit, Year-Long**

Child Development is an introductory course designed to teach students about the basic information regarding the development of children from the pre-natal stage through adolescence. Topics focus on all areas of growth and development of the infant through school aged children. Emphasis is placed with hands on projects conducted both semesters.

### **Family and Consumer Science**

**Grade 9-12**

**1 Credit, Year-Long**

**Required: Materials fee**

FACS is an introductory level course emphasizing the value of teens gaining skills for managing their daily lives. Making decisions, effective communication, clothing care, food preparation techniques, interior design concepts, household safety, budgets, careers and child care guidelines are covered.

### **Food and Nutrition/Advanced Food and Nutrition**

**Grade 10-12**

**1 Credit, Year-Long**

**Required: Materials fee**

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. Students that are interested in a career in health, nutrition or wellness should take this course.

### **ProStart I**

**Grade 11-12**

**1 Credit, Year-Long**

**Prerequisites: Food & Nutrition and Advanced Foods**

**Certification opportunity: ServSafe and ProStart**

**Dual enrollment opportunity**

**Required: Materials fee; Meet DE eligibility guidelines**

**Note: All students must take the national certification exam; ServSafe and ProStart**

ProStart 1 is a mid-level course that is part of a two- year program that prepares students for careers in the restaurant/food service industry. Topics covered include customer service, food and kitchen safety, foodservice equipment, nutrition, business mathematics, control of foodservice costs and career preparation and development. Advanced food preparation techniques will be taught.



**ProStart II**

**Grade 12**

**1 Credit, Year-Long**

**Credit (2) 1-Year Elective/2Hr**

**Prerequisites: ProStart I**

**Certification opportunity**

**Dual Enrollment opportunity**

**Required: Materials fee; Meet DE eligibility guidelines**

**Note: All students will take the national certification exam.**

Prostart II is an advanced course and part of the ProStart program which prepares students for careers in the restaurant/food service industry. Topics covered include career preparation and development, the history and art of foodservice, the lodging industry, marketing and menu development, purchasing and inventory control, standard accounting practices, tourism and communication with customers. It is highly recommended for students to get a job in food service during their time in this course.

## **Fine Arts**

### **Art I**

**Grade 9-12**

**1 Credit, Year-Long**

**Required: Materials fee each semester**

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 such as drawing, painting, sculpture, print making and ceramics.

### **Art II**

**Grade 9-12**

**1 Credit, Year-Long**

**Prerequisite: Art I**

**Required: Materials fee each semester**

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. The second semester of Art II focuses on Design and Sculpture using found objects, wood, paper, cardboard, Styrofoam, plaster, and ceramics.

### **Art III**

**Grade 10-12**

**1 Credit, Year-Long**

**Prerequisites: Art II**

**Required: Materials fee each semester**

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**

**Grade 12**

**1 Credit, Year-Long**

**Prerequisite: Art I, II, III**

**Required: Participation in Senior Art Show; materials fee each semester**

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.

**Art I Talented****Grade 9-12****1 Credit, Year-Long****Required: Special selection process**

Art 1 is an introductory course that focuses on drawing. We will explore drawing in all its capacities using various media including charcoal, collage, printmaking and inks. Studio work will develop and reinforce student understandings of the elements and principles of art and design. Students will learn how to create, critique, evaluate and appreciate works of art. Students will improve their ability to create via direct observation. Students will explore their own aesthetic views. Art history will be infused throughout the course. Sketchbook work outside of class is expected. Students will have opportunities to enter contests and exhibit their work.

**Art II Talented****Grade 10-12****1 Credit, Year-Long****Prerequisite: Talented Art I****Required: Special selection process**

In Art II, we will explore additive and subtractive sculptural techniques such as carving, assemblage, casting and modeling. Studio work will develop and reinforce student understandings of the elements and principles of art and design. Students will learn how to create, critique, evaluated and appreciate works of art. Students will explore their own aesthetic views. Art history will be infused throughout the course. Sketchbook work outside of class is required. Studio time outside of class is expected. Students will have opportunities to enter contests and exhibit their work. A suggested supply list will be provided.

**Art III Talented****Grade 11-12****1 Credit, Year-Long****Prerequisite: Talented Art II****Required: Special selection process**

The main focus in Art III, an advanced level course, is drawing and painting in acrylic and ink, with some printmaking or other two-dimensional media such as collage. TAP Visual Art III is designed for the art students who are serious about pursuing art in high school and beyond. Students who elect to take this course should be self-motivated and self-directed as well as cooperative, responsible art students. There is an emphasis on developing creative, conceptual thinking as well as personal expression and observational drawing skills. Students will work in a variety of media including drawing, painting, printmaking, collage and more. Art history will be infused throughout the course. Sketchbook work outside of class is required. Studio time outside of class is expected. Students will have opportunities to enter contests and exhibit their work.

**Art IV Talented****Grade 12****1 Credit, Year-Long****Prerequisite: Talented Art III****Required: Special selection process**

Art IV is an advanced level course designed to allow the experienced and serious art student to investigate specific areas of art in depth. TAP Visual Art IV is an academically rigorous class. Students will choose from a variety of art areas from self-directed and designed art experiences. Students who elect to take this course should be self-motivated and self-directed as well as cooperative, responsible art students. This course is especially directed toward those preparing art portfolios for college entrance. Critiques, written analyses, artist statements, out of class assignments and completion of a senior series will be required. Sketchbook work outside of class is required. Studio time outside of class is required. Students will have opportunities to enter contests and exhibit their work. A suggested supply list will be provided.

**Fine Arts Survey****Grade 9-12****1 Credit, Year-Long**

Fine Arts Survey is an introduction to the arts. This course will explore major periods, movements, artists, composers, and performers from Prehistory to the 21<sup>st</sup> 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, Applied Music, Chorus and Talented Music classes are performance classes.**

**Band/chorus students will be challenged to achieve mastery and musical expertise.**

**Appropriate musical compositions will be performed. Participation in after school rehearsals and performances are mandated and are factored in the student's grade for the course.**

**Advanced Band****Grade 9-12****1 Credit, Year-Long****Required: Band fee**

Advanced band, an advanced level course, emphasizes instrumental technique and ensemble rehearsal skills, music literacy, music history, and performance practice. This is a co-curricular class, meaning students are required to attend rehearsals, participate in contests, festivals, and performances outside of school hours. Supplies needed for this course will be listed in the band handbook or class syllabus.

**Applied Music****Grade 9-12****1 Credit, Year-Long****Required: Band fee**

Applied music, an advanced course, emphasizes ensemble rehearsal skills and techniques.

This is a co-curricular class, and students are required to attend rehearsals, participate in contests, festivals, and performances outside of school hours.

### **Intermediate Band**

**Grade 9-12**

**1 Credit, Year-Long**

**Required: Band fee**

Intermediate band emphasizes advanced instrumental technique and ensemble rehearsal skills, music literacy, music history, and performance practice. This is a co-curricular class, meaning students are required to attend rehearsals, participate in contests, festivals, and performances outside of school hours. Supplies needed for this course will be listed in the band handbook or class syllabus.

### **Jazz Ensemble**

**Grade 9-12**

**1 Credit, Year-Long**

**Required: Audition and fees**

Jazz Ensemble is an advanced course chosen by audition. Members must be willing to commit to community performances and festivals during and outside the school day. Music will include professional, college, and upper level high school big band jazz literature from every jazz era. Rehearsals will concentrate on developing ensemble skills and improvisation. The goals for the ensemble will be to expose our school and community to America's musical art form and enrich the music education of the students at FHS. Auditions will include a prepared piece of music, scales, site reading, and improvisation for those interested in sole chairs. This is a co-curricular class, meaning students are required to attend rehearsals, participate in contests, festivals, and performances outside of school hours. Supplies needed for this course will be listed in the band handbook or class syllabus.

### **Wind Ensemble**

**Grade 9-12**

**1 Credit, Year-Long**

**Required: Audition and fees**

Wind ensemble is an advanced course emphasizing instrumental technique and ensemble rehearsal skills, music literacy, music history, and performance practice. This is a co-curricular class, meaning students are required to attend rehearsals, participate in contests, festivals, and performances outside of school hours. Supplies needed for this course will be listed in the band handbook or class syllabus.

### **Advanced Chorus**

**Grade 9-12**

**1 Credit, Year-Long**

**Required: Audition and fees**

Advanced chorus is designed for choir students who have a fundamental understanding of choral technique, can read music and demonstrate the ability to sing in-tune.

**Piano Class****Grades 9-12****1 Credit, Year-Long**

Piano is a beginning class, designed for students with little or no prior piano instruction. Students progress through daily practice and class activities, perform in ensembles and prepare for written, as well as performance exams. Students are required to purchase a book, but do not need to own a piano/keyboard.

**Small Vocal Ensemble****Grade 9-12****1 Credit, Year-Long****Required: Audition and fees**

Small vocal ensemble is an advanced course designed for male and female choir students, who have achieved choral success at the junior high or high school level, can demonstrate the ability to sight-read music at a competitive level and possess excellent choral technique and control of the vocal instrument.

**Stagecraft****Grade 11-12****1 Credit, Year-Long**

Stagecraft is a senior-level course designed to coordinate all aspects of production for plays produced by the Talented Theatre program. Emphasis on set construction, set painting and stage lighting. Students will have the opportunity to run lighting and sound equipment for the various events that take place in the auditorium throughout the school year.

**Music I, II, III, IV Talented****Grade 9-12****1 Credit, Year-Long****Required: Special selection process**

Talented music is an accelerated course which focuses on independent and small group study in performance skills, technique, musicianship, ear training, music theory and analysis, composition, improvisation and music history and styles. Talented music is part of the special education program and is only available through audition. Information about the selection process is available through the special education and counseling offices.

**Theatre I, II, III, IV Talented****Grade 9-12****1 Credit, Year-Long****Required: Special selection process**

Talented theatre, part of the Special Education program, is only available by screening. The course consists of accelerated and independent training in a variety of theatrical areas including performance, design, directing, and history.

## **Theatre I**

**Grade 9-12**

**1 Credit, Year-Long**

Theatre I is a beginning course which covers the principles of stage movement, vocal projection, diction, and pantomime. Students will also become familiar with the history and vocabulary of Theatre, as well as practice techniques for overcoming stage fright and gaining confidence in performance and presentation settings. Through a variety of scenes and monologues, students will also research character development, setting, tone, and text interpretation. Finally, students will create and perform original scripts and monologues.

## **Speech I**

**Grade 9-12**

**1 Credit, Year-Long**

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 that 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.

## **Speech II**

**Grade 10-12**

**1 Credit, Year-Long**

**Prerequisite: Speech I**

Speech II is a mid-level course designed to add to the student's knowledge of public speaking that was gained in Speech I. Students will be exposed to oral interpretation of music/literature, informal and formal debate formats, and all areas of mass communications. Students that are interested in a career in law, politics, or mass communication should take this course.

## **TV Productions I**

**Grade 11-12**

**1 Credit, Year-Long**

**Certification opportunity: Adobe Certification using Adobe Premiere Pro CS6**

TV Productions is an introduction to the broadcast media. Students will be exposed to the basic principles of broadcast journalism and 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**

**Grade 12**

**1 Credit, Year-Long**

***Prerequisite: TV Production***

***Certification opportunity: Adobe Certification using Adobe Premiere Pro CS6***

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 that are interested in a career path in Media should take this course.

## **TV Productions I, II (Channel 13 course)**

**Grade 12**

**1 Credit, Year-Long**

***Prerequisite: TV Production***

***I Certification opportunity***

***Dual Enrollment***

***opportunity***

***Required: Application process; Meet DE eligibility guidelines***



## **World Languages**

### **French I**

***Grade 9-12***

***1 Credit, Year-Long***

French I is an introductory course that covers basic conversation, listening skills, reading, writing and translating. Cultural awareness activities are also included. The primary goal of French I is to build a foundation of vocabulary and grammar in preparation for level 2. 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 II**

***Grade 9-12***

***1 Credit, Year-Long***

A continuation of French I.

### **French III**

***Grade 10-12***

***1 Credit, Year-Long***

French III, an advanced level course, 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 19<sup>th</sup> 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.

### **French IV**

***Grade 11-12***

***1 Credit, Year-Long***

A continuation of French III.

### **French V**

***Grade 12***

***1 Credit, Year-Long***

A continuation of French IV.

### **Spanish I**

***Grade 9-12***

***1 Credit, Year-Long***

Spanish I is an 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. This course teaches basic grammatical concepts and prepares students for Spanish II. The students have the opportunity to learn vocabulary and grammatical structures using ASL gestures, songs and rhymes.

### **Spanish II**

***Grade 9-12***

***1 Credit, Year-Long***

Spanish II is an intermediate level course designed to incorporate grammatical concepts and vocabulary learned in Spanish I with new vocabulary and verb conjugation. Spanish II students learn past tense, future and conditional tenses, command and subjunctive. The grammar and vocabulary are used to create and tell stories and to speak during communicative activities. Spanish II students continue to learn about the culture of Spanish speaking countries. The students have the opportunity to learn vocabulary and grammatical structures using ASL gestures, songs and rhymes

### **Spanish III**

***Grade 10-12***

***1 Credit, Year-Long***

Spanish III is an accelerated course designed to give students more opportunities to use the language. Students give presentations in Spanish and tell stories in the target language. There are some new grammatical concepts such as perfect tense verb conjugation and the imperfect subjunctive. The students demonstrate a more sophisticated use of the language in reading, writing and listening activities.

### **Spanish IV and V**

***Grade 11-12***

***1 Credit, Year-Long***

***Required: Teacher recommendation***

Spanish IV/V are accelerated courses designed to encourage speaking, reading, writing and listening skills in the target language. Students must present projects in the target language. The students read, translate and discuss a variety of literary works in Spanish.

## **Industrial Arts**

### **Basic Technical Drafting**

***Grades 10-12***

***1 Credit, Year-Long***

***Certification opportunity***

***Dual Enrollment opportunity***

***Required: Meet DE eligibility guidelines***

Basic Technical drafting is an introductory course designed to study the technical elements of drafting, which include instruments, lettering, sketching, applied geometry, projections, pictorial representation, dimensioning, sectioning, symbols and auxiliaries. Students will be exposed to AutoCad software that will prepare them for more advanced computer assisted drafting and design. Students that are interested in drafting, architecture, and engineering design should take this course.

### **CMAD Drafting**

***Grade 11-12***

***1 Credit, Year-Long***

***Prerequisite: Basic Technical***

***Drafting Certification opportunity***

***Dual Enrollment opportunity***

***Required: Meet DE eligibility guidelines***

CMAD drafting is a mid-level continuation of Basic Technical Drafting which includes an opportunity to acquire a User Certification in AUTOCAD software. Students that are interested in enhancing their computer aided drafting and design skills in concert with basic drafting and design concepts should take this course.

### **Architectural Drafting**

***Grade 12***

***1 Credit, Year-Long***

***Prerequisite: CMAD Drafting***

***Dual Enrollment opportunity***

***Required: Meet DE eligibility guidelines***

Architectural drafting, and advanced level course, is an introduction to architectural design and drafting, residential design, floor plans, roof plans, elevations, framing methods and plans, foundations plans, sections and details, supplemental floor plan drawings, and site planning. Students will be exposed to operational implementation of AutoCad software in design of floor plans and structural components. Students interested in architecture and design engineering should take this course.

### **Automotive Tech I Dual Enrollment**

**Grade 11-12**

**2 Credits, Year-Long,**

**Required: Materials fee**

**Certification opportunity; Dual enrollment opportunity**

**Required: Meet DE eligibility guidelines**

Students are provided specialized instruction and practical shop experience to prepare students with entry level skills in the servicing and maintaining of all types of automobiles. Possible certifications are available: Brakes, Electrical/Electronic Systems, Engine Performance, Suspension/Steering through Northshore Technical Community College — up to 5 college credits can be earned.

### **Automotive Tech II Dual Enrollment**

**Grade 11-12**

**2 Credits, Year-Long**

**Prerequisite: Automotive Technician I**

**Certification opportunity; Dual Enrollment opportunity**

**Required: Materials fee; Meet DE eligibility guidelines**

The student will continue to complete course work required for the 4 possible certifications through Northshore Technical Community College — up to 5 college credits can be earned.

### **Pre-Apprenticeship (Core)**

**Grade 9-12**

**1 Credit, Year-Long**

**Certification opportunity**

Pre-Apprenticeship CORE is an introductory course that includes basic safety, construction math, and an introduction to the following: hand tools, power tools, construction drawings, basic riggings, basic communication skills, basic employability skills, and material handling. This course prepares students for follow-on courses in crafts and trades, and is a prerequisite for certified courses such as carpentry and welding. Students interested in crafts and trades, and/or welding and carpentry should take this course.

### **Carpentry**

**Grade 10-12**

**1 Credit, Year-Long**

**Certification opportunity; Dual Enrollment opportunity**

**Required: Core Certification; meet DE eligibility guidelines**

Students learn basic carpentry, quantitative, and safety skills essential to entry-level employment. Completing this Helper pathway includes: introduction to carpentry, building materials, fasteners and adhesives, hand and power tools, construction drawings, specifications and layout and wall systems.

**Ag Welding I****Grade 10-12****1 Credit, Year-Long****Dual Enrollment opportunity****Required: Core Certification; Materials fee; Meet DE eligibility guidelines**

This mid-level course provides the skills necessary for a career with basic entry-level welding.

The course emphasizes developing the student's skills and understanding the welding field.

Students may be CORE and Level 1 certified upon completion of this course, and may accumulate up to 5 college credits.

**Ag Welding II****Grade 11-12****2 Credits, Year-Long****Prerequisite: Welding I****Certification opportunity; Dual enrollment opportunity****Required: Materials fee; Meet DE eligibility guidelines**

This class is an advanced level course designed to use and reinforce the skills acquired in

Welding I. Students may be Level 1 certified upon completion of this course, and may

accumulate up to 5 college credits.

## **Mathematics**

### **Math Skills**

#### ***Grade 9 (transitional)***

#### ***1 Credit, Year-Long***

Math Skills, an introductory course, was developed for our transitional 9<sup>th</sup> graders to practice and reinforce the elementary grade math skills necessary for success in high school math courses.

### **Algebra I**

#### ***Grade 9-12***

#### ***1 Credit, Year-Long***

#### ***Honors: Recommendation***

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**

#### ***Grade 9-12***

#### ***1 Credit, Year-Long***

#### ***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.

### **Geometry Honors**

#### ***Grade (9-10)***

#### ***1 Credit, Year-Long***

#### ***Prerequisite: Algebra I***

#### ***Note: May also enroll in Algebra II concurrently with recommendation***

Honors Geometry is a mid-level course designed to deepen and broaden students' understanding of 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 challenged to prove these concepts using logical arguments. Students will also investigate properties of 3-dimensional figures and conditional probability. This course will prepare students for Algebra II.

**Geometry Gifted****Grade (9-10)****1 Credit, Year-Long****Prerequisite: Algebra I****Required: Identification as Gifted by STPSB**

Gifted Geometry is an advanced course designed to deepen and broaden students' understanding of 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 challenged to prove properties of plane figures using logical arguments and extend those properties to 3-dimensional figures. Students will also investigate conditional probability. In addition to the goal of fostering college-readiness through critical thinking, students will be challenged to use creativity, research skills, and affective skills to explore how course content can be used to find solutions to real world problems. Students will present their work in a variety of formats including constructed responses, essays, presentations, informal discussion, and creative projects. This course will prepare students for Algebra II.

**Algebra II****Grade 10-12****1 Credit, Year-Long****Prerequisite: Algebra I****Honors: Recommendation**

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 II Gifted****Grade (10-11)****1 Credit, Year-Long****Prerequisite: Algebra I****Required: Identification as Gifted by STPSB**

Algebra II Gifted is an advanced course designed to deepen and broaden students' understanding of functions. Students will be exposed to solving and graphing a wide variety of functions including: linear, quadratic, rational, radical, absolute value, exponential, and logarithmic functions. In addition to the goal of fostering college-readiness through critical thinking, students will be challenged to use creativity, research skills, and affective skills to explore how course content can be used to find solutions to real world problems. Students will present their work in a variety of formats including constructed responses, essays, presentations, informal discussion, and creative projects. This course will prepare students for Pre-Calculus and College Algebra.

**Algebra III****Grade 11-12****1 Credit, Year-Long****Prerequisite: Algebra II****Honors: Recommendation**

Algebra III is an advanced level course. Students will solidify topics learned in Algebra II, while focusing on work with many type 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.

**Algebra III Dual Enrollment****Grade 11-12****1 Credit, Year-Long****Prerequisite: Algebra II****Required: Meet DE eligibility requirements, university course fee, MathXL fee**

Algebra III 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 both 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 Honors****Grade 11-12****1 Credit, Year-Long****Prerequisite: Algebra II with A/B****average Required: Recommendation**

The study of functions and their graphs, triangle trigonometry, circular trigonometry and graphing of trigonometric functions, solving trig equations. Polynomial functions, rational function, radial functions, exponential and logarithmic functions are also covered as well as sequences and series, conic sections and parametric equations. This course is recommended for students who are considering a math or science related major in college.



## **Pre-Calculus Dual Enrollment**

### **Grade 11-12**

**1 Credit, Year-Long (6 hours college credit)**

**Prerequisite: Algebra II**

**Required: Meet DE eligibility requirements, university course fee, and MathXL fee**

Pre-Calculus DE is an advanced, college-level course whose requirements are set by the university. The 1st semester 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 2nd semester is a study of trigonometric functions. Topics include the laws of sine and 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. This class satisfies the requirements for both high school credit in Pre-Calculus and college credit in College Algebra and Trigonometry. The course is taught in a traditional manner but all homework, quizzes, and tests are delivered through Math XL. Students will pursue 6 hours of college credit in College Algebra (SLU Math 161) and Trigonometry (SLU Math 162). This is a rigorous, fast-paced course designed for students interested in STEM college majors.

## **Pre-Calculus Gifted**

### **Grade (10-11)**

**1 Credit, Year-Long**

**Prerequisite: Algebra II with A/B average**

**Required: Identification as Gifted by STPSB**

Gifted Pre-Calculus is an advanced course designed to solidify students' understanding of functions and their graphs and provide an in-depth study of circular trigonometry. Students will be exposed to polynomial, rational, exponential, logarithmic and trigonometric functions as well as sequences and series, conic sections, and parametric equations. In addition to the goal of fostering college-readiness through critical thinking, students will be challenged to use creativity, research skills, and affective skills to explore how course content can be used to find solutions to real world problems. Students will present their work in a variety of formats including constructed responses, essays, presentations, informal discussion, and creative projects. This course will prepare students for Calculus and other advanced college mathematics courses. Students who are considering a math or science related major in college should take this course.

## **Probability and Statistics Dual Enrollment**

### **Grade 12**

**1 Credit, Year-Long**

**Prerequisite: College Algebra or >28 math ACT and high school GPA  $\geq 2.5$**

**Required: Meet DE eligibility requirements, 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, Student's T, Chi Square, and correlation techniques. This class satisfies the requirements for both 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). This is a 3-credit hour course, taught for a full year. This course is an excellent choice for seniors interested in a 4th year of math but not interested in taking calculus.

### **Calculus Advanced Placement**

#### **Grade 11-12**

#### **1 Credit, Year-Long**

#### **Prerequisites: Pre-Calculus**

#### **Required: Completion of summer review packet, course fee, and Advanced Placement test**

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. Students who are considering a math or science based major in college should take this course.

### **Applied Calculus Dual Enrollment**

#### **Grade 12**

#### **1 Credit, Year-Long**

#### **Prerequisite: College algebra or >28 math ACT and high school GPA $\geq 2.5$**

#### **Required: Meet DE eligibility requirements, 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). This is a 3-credit hour course, taught for a full year.

College majors requiring Applied Calculus include the following: All majors in the College of Business, Biological Sciences, and Social Sciences.

**Financial Literacy*****Grade 11******1 Credit, Year-Long***

This mid-level 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.

**Business Math*****Grade 12******1 Credit, Year-Long******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**

#### ***Grade 9***

#### ***1 Credit, Year-Long***

This introductory course is designed to provide a broad range of activities. The curriculum consists of flag football, softball, ultimate Frisbee, volleyball, basketball and physical/motor fitness.

### **Physical Education II**

#### ***Grade 10***

#### ***½ Credit, Semester-Long***

This mid-level course focuses on a variety of lifetime sports activities. The curriculum consists of badminton, field hockey, softball, soccer, speedball, physical fitness, volleyball & basketball.

### **Physical Education III**

#### ***Grade 11-12***

#### ***1 Credit, Year-Long***

This advanced level course emphasizes lifetime sports, leisure pursuits and the importance of physical fitness.

### **Physical Education IV**

#### ***Grade 12***

#### ***1 Credit, Year-Long***

This advanced level course will place emphasis on physical conditioning and weightlifting.

### **Health Education**

#### ***Grade 10-12***

#### ***½ Credit, Semester-Long***

This introductory course is designed to motivate and assist students to maintain and improve their health, prevent disease and reduce health-related risk behaviors.

### **Conditioning I, II, III**

#### ***Grade 10-12***

#### ***1 Credit, Year-Long***

***Required: Athletes only***

## **Junior Reserve Officer Training Corp (JROTC)**

*Completion of JROTC I and JROTC II satisfies the PE and Health Graduation Requirements.*

### **JROTC I**

***Grade 9-12***

***1 Credit, Year-Long***

This introductory 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**

***Grade 9-12***

***1 Credit, Year-Long***

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.

### **JROTC III**

***Grade 11***

***1 Credit, Year-Long***

***Certification opportunity***

This advanced level course is designed to access active leadership and leadership application techniques taught in JROTC I and II. Cadets will learn effective communication, physical fitness, military heritage, decision making, time management and financial management. Students will begin exploring their career interests for post high school pursuits.

### **JROTC IV**

***Grade 12***

***1 Credit, Year-Long***

***Certification opportunity***

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**

***Grade 9, 10***

***1 Credit, Year-Long***

Physical science is an introductory course consisting of one semester of chemistry and one semester of physics. Students will discover themes of how the physical world works through theoretical and practical laboratory experiences, concentrating on developing scientific skills of observing, inferring, data collecting, and graphing. First semester will cover the topics of using and 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.

### **Physical Science Honors**

***Grade 9, 10***

***1 Credit, Year-Long***

***Prerequisite: Algebra I Honors***

Physical Science Honors is an introductory course consisting of one semester of chemistry and one semester of physics. Students will be challenged with a deeper level of understanding and higher expectations of critical thinking at an accelerated rate. Students will discover themes of how the physical world works through theoretical and practical laboratory experiences, concentrating on developing scientific skills of observing, inferring, data collecting, and graphing. First semester will cover the topics of using and 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**

***Grade 10***

***1 Credit, Year-Long***

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 skillsets: high level critical thinking, basic level algebraic mathematic skills, graph production / data analysis. These skills are developed and used to help students to drive their own hypotheses and conclusions using the scientific inquiry.

## **Biology I Honors**

### **Grade 10**

#### **1 Credit, Year-Long**

##### ***Honors: Teacher Recommendation***

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. Students will be challenged with a deeper level of understanding and higher expectations of critical thinking at an accelerated rate. This course heavily relies on the use of the following skillsets: high level critical thinking, basic level algebraic mathematic skills, graph production/data analysis. These skills are developed and used to help students to drive their own hypotheses and conclusions using the scientific inquiry.

## **Chemistry**

### **Grade 11-12**

#### **1 Credit, Year-Long**

##### ***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.

## **Chemistry Honors**

### **Grade 11-12**

#### **1 Credit, Year-Long**

##### ***Prerequisite: Enrollment in or completion of Algebra II H***

Chemistry Honors is a mid-level course recommended for the above-average student who has a strong background in honors math and science classes. Basic algebraic skills are necessary for this course. Laboratory experiences, demonstration, and problem solving are stressed. This course covers the same material as Chemistry, but at an advanced level and at an accelerated rate. Content covered in this course will prepare students for both Biology II and Physics.

## **Biology II**

### **Grade 11-12**

#### **1 Credit, Year-Long**

##### ***Honors: Required B average in biology and enrollment in or completion of Chemistry***

Biology II is an advanced level course designed for those students who exhibit interest in life sciences. This one-year course is a continuation of the study of Biology that includes an in-depth study of cellular processes, genetics, evolution, ecology, human body systems, and additional topics as time permits. This is a college preparatory course intended to prepare students for college science courses. Significant time will be spent on experimental design and

analysis, interpretation of scientific models, and making and supporting claims based on evidence. Strong reading comprehension, critical thinking, and study skills are critical for success in this course.

### **Biology II Dual Enrollment**

#### **Grade 11-12**

#### **1 Credit, Year-Long**

**Prerequisite:** *B or higher in Honors Chemistry I or recommendation*

**Required:** *University course fee; Meet DE eligibility guidelines*

Biology II Dual Enrollment is an advanced course focusing on cell and molecular processes, including a study of biological molecules, cell structure and function, cellular respiration, photosynthesis, cell reproduction and genetics. Evolution, diversity of life, plant and animal form and function, and ecology are topics covered in the spring. The course involves extensive, college-level lab work, and students are required to write scientific lab reports in order to receive the lab credits.

### **Biology II Advanced Placement (AP)**

#### **Grade 11-12**

#### **1 Credit, Year-Long or Required**

**Required:** *B average in Biology H and Chemistry H, course fee, Advanced Placement test*

AP Biology is a yearlong advanced level course equivalent of a freshman-level collegiate general biology course. Students can expect challenging content, a rigorous pace, extensive lab work and a significant time commitment to studying and reading. The textbook used by AP Biology is also used by college biology majors and the kinds of labs done by AP students 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 critically with the rapidly changing science of biology. This course is designed to prepare students for the Biology College Board Advanced Placement Exam.

### **Earth Science Grade 9-Resource**

#### **Grade 9**

#### **1 Credit, Year-Long**

Earth Science is the study of features and forces of our planet. It includes the study of geologic structures and forces, the waters on our planet, and the atmospheric forces that shape our world. Students will investigate and study the interactions between the four major Earth spheres including the geosphere, atmosphere, hydrosphere and biosphere in order to explain earth formation, processes, history, landscapes and how and why Earth changes over time. Some of the additional topics to be addressed are nature of science, measurement, mapping Earth's surface, minerals, rocks, plate tectonics, earthquakes, volcanoes, geologic time, meteorology and Earth's place in the universe. Students will participate in laboratory exercises, small group activities, web-based investigations and simulations, class discussions, projects and research.



## **Environmental Science**

### **Grade 9**

#### **1 Credit, Year-Long**

Environmental Science Grade 9 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 (interactions between the atmosphere, hydrosphere, geosphere, and biosphere), ecology (the study of the interactions of organisms and their environment), biodiversity (the variety of plants and animals), resource use, pollution, and sustainability (balancing resource use with economic growth, environmental care, and social well-being). 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.

## **Environmental Science**

### **Grade 11-12**

#### **1 Credit, Year-Long**

Environmental Science is a mid-level course that examines the processes at work in our natural environment, how we use those natural systems and the resource they provide, and the human impact on those systems. The course includes discussions of Earth's systems (weather and climate, water cycle, etc.), ecology (the study of the interactions of organisms and their environment), biodiversity, resource use, pollution, and sustainability (how we can use resources with less harm to the environment). Emphasis will be placed on current and local issues, as well as how individuals can make more sustainable choices.

## **Environmental Science Honors**

### **Grade 11-12**

#### **1 Credit, Year-Long**

**Honors prerequisite: C average in Chemistry H or Biology I H or a B in on-level Chemistry or Biology I**

This mid-level course covers the same content as Environmental Science, but at greater depth and at an accelerated rate. Strong reading comprehension and writing skills are recommended. Additional emphasis will be placed on critical thinking to analyze complex issues, experimental design, and data analysis.

## **Forensic Investigation**

### **Grade 11-12**

#### **½ Credit, 1 Semester**

**Prerequisite: B or higher in biology, chemistry, geometry (or higher math), or teacher recommendation**

Practical-based course. Students will learn and practice the skills used by forensic techs and crime scene investigators. Includes a field trip STSPO crim 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**

### **Grade 12**

#### **1 Credit, Year-Long**

***Prerequisite: B average in Chemistry and Algebra II; concurrent enrollment in Algebra III or Pre-Calculus***

Physics is an advanced level course designed for those students who exhibit interest in science. Laboratory experiences, demonstration, and problem solving are stressed. Basic algebraic skills are necessary for success in this course. Topics of study include, but are not limited to, force, motion, work, energy, machines, fluids, magnetism, electricity, electronics, radiation, sound and light.

## **Physics Honors**

### **Grade 12**

#### **1 Credit, Year-Long**

***Prerequisite: B average in Chemistry H and Algebra II H and currently enrolled in Pre-calculus or Calculus***

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.

## **Physics I Advanced Placement (AP)**

### **Grade 12**

#### **1 Credit, Year-Long**

***Required: B average in Chemistry H and Algebra II H, enrollment in or completion of Pre-Calculus or Calculus, teacher recommendation, Advanced Placement exam***

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. All AP Physics 1 students will prepare to take the AP exam at the end of the school year.

## **Anatomy & Physiology Honors**

### **Grade 11-12**

#### **1 Credit, Year-Long**

***Required: B average in Biology H***

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)**

***Grade (10- 11)***

***1 Credit, Year-Long***

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.

### **Health Science II (Medical Terminology)**

***Grade 11-12***

***1 Credit, Year-Long***

***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***

***½ or 1 Credit, Semester- or Year-Long***

***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**

***Grade 11-12***

***1 Credit, Year-Long***

***Certification opportunity***

***Dual Enrollment opportunity***

***Required: Meet DE eligibility guidelines***

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.

### **Pre-Practical Nursing Dual Enrollment I**

#### **Grade 11**

#### **2 Credits, Year-Long (2 hours)**

**Required: High school GPA > 2.0; Pre-ACT: Math-19, Reading-18, Language-14; counselor recommendation**

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.

### **Pre-Practical Nursing Dual Enrollment II**

#### **Grade 12**

#### **2 Credits, Year-Long (2 hours)**

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

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.

### **EKG/Patient Care Technician Dual Enrollment**

#### **Grade 12**

#### **1 Credit, 1-Semester (2 hours)**

**Prerequisite: CNA (Certified Nursing Assistant)**

**Required: Meet DE eligibility Requirements; Transportation needed**

EKG/Patient Care Technician is an advanced course for students to complete an additional national certification towards Patient Care Technician. The following modules must be completed to earn the certificate: CNA, EKG, Phlebotomy and Advanced Nursing Skills. A required 100 sticks will be needed to complete a course with clinical hours. Students earn 1 high school credit and possible 6 college credits from Northshore Technical Community College.

### **Emergency Medical Responder Dual Enrollment**

#### **Grade 12**

#### **2 Credits, Year-Long**

**Required: Meet DE eligibility Requirements**

**Prerequisite: 1st Responder Certification**

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 junior or senior in high school and at least 16 years of age by the scheduled end date of the EMR 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. Complete a NTCC Dual Enrollment Application
2. Be proficient in reading, writing, and speaking the English language.
3. Must have a 1.85 cumulative GPA prior to entering the EMR program and maintain a
4. 2.0 course GPA while in the program.
5. Currently possess or earn in the EMR course a current AHA BLS CPR (or equivalent) card.
6. If less than 18 years of age, the student must provide the course instructor with a parental permission form, with the signature of a parent or guardian, verifying approval for enrollment in the course.
7. Have no physical or mental impairment that would render the student unable to
8. perform all practical skills required for the level of licensure without accommodation.
9. Not have an arrest/conviction record that has not been cleared by the EMS Certification Commission.
10. Maintain a professional appearance in line with local EMS expectations and in accordance with the local school district policy.
11. 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.
12. Review and attest in writing their acceptance and understanding of the EMR Functional Position Statement.
13. Review and attest in writing receipt of an agreement to adhere to the policies contained in the Dual Enrollment EMS Program Student Handbook.
14. Documentation from a physician attesting to the students' ability to perform the duties of an Emergency Medical Responder (physical exam.)
15. Successful completion of the Emergency Medical Responder course and EMR certification are a prerequisite for enrollment in the Emergency Medical Technician course as a senior. The courses may not be taken concurrently.

## **EMT Basic Dual Enrollment**

### ***Grade 12***

### ***2 Credits, Year-Long***

### ***Prerequisite: 1st Responder Certification***

### ***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. 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 engages 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)**

**Grade 9-11**

**1 Credit, Year-Long**

***Certification opportunity: AutoDesk Inventor***

***Requirements: Reliable Internet access outside of school***

Introduction to Engineering Design is an introductory 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)**

**Grade 10-12**

**1 Credit, Year-Long**

***Prerequisite: Successful Completion of Engineering I (C average or better)***

***Certification opportunity: AutoDesk Inventor***

***Requirements: Reliable Internet access outside of school***

Principles of Engineering (POE) is a science 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.

## **Capstone – Engineering III**

### **Grade 12**

#### **1 Credit, Year-Long**

***Prerequisite: Successful Completion of Engineering I and II and with instructor approval***

***Certification opportunity: AutoDesk Inventor***

***Requirements: Reliable Internet access outside of school***

Capstone gives you an opportunity to exercise the skills you developed in not only your PLTW classes, but other classes, as well as your personal experiences. This is a student driven course that requires you to work in a team, using the unique knowledge and skills of each member, to identify and solve a problem. You will complete research, design and test a prototype or model of your solution, evaluate your results, and analyze data—documenting each step along the way. As part of your team you will create an original authentic product or solution to your 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**

### **Government**

#### ***Grade 10***

#### ***1 Credit, Year-Long***

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 Gifted**

#### ***Grade 10***

#### ***1 Credit, Year-Long***

#### ***Required: Identification as Gifted by STPSB***

Gifted Government is an advanced course designed to bring students into a deeper understanding of the foundations of government and civics. Through its six units, Gifted Government offers students an exposure to civic education and governmental and political processes. In addition, the foundations of economics will be taught since government actions and reactions are often driven by economic issues. The course will emphasize critical thinking, problem solving, discussion and debating, and writing skills to assist students in their academic success. Students will explore the U.S. government and economics through primary and secondary sources, videos, data, images, political cartoons, maps and other artifacts. Students will work alone and in groups to complete projects that will demonstrate their content knowledge through their affective, research, critical thinking and creative skills. This curriculum prepares students for the U.S. History and the LEAP 2025 exam.

### **Government Honors**

#### ***Grade 10***

#### ***1 Credit, Year-Long***

Government Honors is an advanced 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.

**Law Studies****Grade 11-12****Credit (1) 1-Year****Prerequisite: Government****Certification opportunity**

Law Study 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 Study will prepare students for further study as consumer and court advocates, paralegal studies, pre-law and criminal justice.

**Psychology****Grade 11-12****Credit (1) 1-Year**

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.

**Psychology Dual Enrollment****Grade 11-12****½ Credit, Semester-Long****Required: Course fee; Meet DE eligibility requirements**

Psychology is a mid-level survey course of the science of behavior of man and other animals stressing the connections between human behavior and mental processes. Units of study include careers in the field of Psychology, the Scientific Method, Learning, Development, Social Psychology, Mental Illnesses and Disorders and Treatment and Therapy.

**Sociology****Grade 10-11****½ Credit, Semester-Long**

Sociology is a mid-level course designed to teach students about the basic principles of sociology. Students will be exposed to the study of culture, society, social organizations, and social relationships. This course is for students that are interested in investigating the social causes and consequences of: personal identity, conflict, deviant behavior, crime, poverty and other social issues.

## **Sociology Dual Enrollment**

**Grade 11-12**

***½ Credit, Semester-Long***

***Required: Course Fee; meet DE eligibility requirements***

Sociology is an advanced level survey course of culture, groups, social institutions and organizations, society and the social self and identity and inequality. Particular 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. All students interested in earning Dual Enrollment credit should take this course. Upon successful completion of this course, students will earn 3 hrs. of college credit

## **U.S. GOVERNMENT (AP)**

**Grade 10-12**

***1 Credit, Year-Long***

***Recommended prerequisites: Honors or gifted English with an A or B in the course.***

***Required: Advanced Placement exam***

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 and is designed to prepare students for the Advanced Placement exam in May.

## **COMPARATIVE GOVERNMENT (AP)**

**Grade 10-12**

***½ Credit, Semester-Long***

***Recommended prerequisites: Honors or gifted English with an A or B in the course.***

Grades 10-12 Advanced Placement Comparative Government and Politics introduces the study of the fundamental concepts of political science and international relations through analyzing and comparing the historical, political, social and economic development of six different countries: an industrialized democracy (United Kingdom), a former and current communist regime (People's Republic of China and Russia) and developing nations (Federal Republic of Nigeria, Mexico and Islamic Republic of Iran).

## **US History**

**Grade 11**

***1 Credit, Year-Long***

US History is a mid-level course 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.

## **US History Dual Enrollment**

### **Grade 11-12**

#### **1 Credit, Year-Long**

##### ***Required: Meet DE eligibility Requirements***

History 202: American History since 1877. Credit 3 hours. No prerequisites. A survey of American History from the age of discovery to 1877. Four units on the Emergence of Modern America (1877-1917); World Wars and the New Deal (1917-1945); the Cold War and Civil Rights (1945-1976); and the New World Order (1976-Present). This class will be offered as a dual-enrollment class with high school American History. The college segment of the class will have four units as specified in the catalogue, each with ten 50-minute lectures to be delivered by various HIPS faculty with appropriate expertise, broadcast on the Southeastern Channel, and available via streaming video from the Southeastern website. To earn credit for History 202 students must complete the full high school course on American History from the Renaissance to the present; view all 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 sixteen quizzes.

## **US History Gifted**

### **Grade 11**

#### **1 Credit, Year-Long**

##### ***Required: Identification as gifted by STPSB***

US History Gifted is an advanced level course designed to study the history of America in six units which include topics such as Industrialization, the Great Depression and New Deal, the World Wars, the Cold War, and events of the 1980s-2000s. Students explore these eras through primary and secondary resources, videos, data, images, political cartoons, maps, and other artifacts. Students work alone and in groups to complete projects to demonstrate their content knowledge and research skills. In addition to fostering college-readiness through critical thinking, students will be challenged to use their creativity, research skills, and affective skills to explore the relationship between and amongst past events and the present. Students will present their work in a variety of formats including group projects, papers, tests, presentations, essays, and drawing/art. This curriculum prepares the students for the LEAP 2025.

## **US History Honors**

### **Grade 11**

#### **1 Credit, Year-Long**

##### ***Honors: Teacher Recommendation***

US History H is an advanced level course 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. Honors students are required to complete a course project in order to earn their quality point for semester.

**World Geography****Grade 9-12****1 Credit, Year-Long**

World Geography is an introductory course 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 Geography Gifted****Grade 9****1 Credit, Year-Long*****Required: Identification as gifted by STPSB***

World Geography Gifted is an advanced course designed to teach students about political, physical, and cultural geography. In exploring these topics, students will be exposed to different countries' cultures, environments, current events, economies, histories, religions, and more. In addition to preparing students for future social studies courses through the development of critical thinking, students will be challenged to use their creativity, research skills, and affective skills to explore the relationship between various aspects of geography and civilizational/human development. Students will present their work in a variety of formats including group projects, papers, tests, presentations, essays, and drawing/art.

**World Geography Honors****Grade 9-12****1 Credit, Year-Long*****Required: Teacher recommendation***

World geography is a mid-level course designed to teach students about the 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. Students must complete a St. Tammany Parish School Board required project.

**World History****Grade 12****1 Credit, Year-Long**

World History is an advanced level course designed to teach students to examine the history of the world from the Renaissance to the 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.

## **World History Advanced Placement**

### **Grade 12**

#### **1 Credit, Year-Long**

##### **Required: Course fee, Advanced Placement exam**

AP World History is an advanced level course designed to be the equivalent of a two-semester introductory college or university world history course. Students will be exposed to significant events, individuals, developments, and processes in four historical periods from approximately 1200 C.E. to the present. Students will develop and use the same skills, practices, and methods used by historians, such as analyzing primary and secondary sources, making historical comparisons, utilizing reasoning about contextualization, causation, and continuity and change over time, and developing historical arguments that will prepare them for college and beyond. AP students are required to take the AP Exam in the spring.

## **World History Dual Enrollment**

### **Grade 11-12**

#### **1 Credit, Year-Long (6 hours college credit)**

##### **Required: Meet DE eligibility requirements; course fee**

History 102: Western Civilization since 1500. 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. This class will be offered as a dual-enrollment class with high school World History. The college segment of the class will have four units as specified in the catalogue, each with ten around an hour lectures to be delivered by various HIPS faculty with appropriate expertise, broadcast on the Southeastern Channel, and available via streaming video from the Southeastern website. To earn credit for History 102 students must complete the full high school course on World History from the Renaissance to the present; view all forty 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.

## **World History Gifted**

### **Grade 12**

#### **1 Credit, Year-Long**

##### **Required: Identification as gifted by STPSB**

Gifted World History is an advanced level course designed to study the evolution of social, political, economic and geographic connectivity, conflict and continuity of our world. This full year course will begin with the Renaissance and cover global events including the Reformation, Age of Exploration, Absolutism, enlightenment and Revolutions, WWI and WWII, Cold War and the Modern Age. Students develop historical thinking skills by analyzing primary and secondary resources to make historical arguments. Students work alone and in groups to complete projects to demonstrate their content knowledge and research skills. This curriculum prepares the students for collegiate level Social Science Classes.

## **FHS Jump Start Graduation Pathways**

The Louisiana Department of Education documents that follow are drawn directly from the state's website. They include *all* courses included in each pathway. Note that Fontainebleau High School does not offer every course listed. See the previous pages to confirm the courses offered at FHS.

## AGRICULTURE, FOOD & NATURAL RESOURCES

For incoming freshmen 2020–2021



### OVERVIEW

The Agriculture, Food and Natural Resources Jump Start 2.0 Pathway immerses students in the fields of agriculture and related sciences. This pathway equips students with the knowledge of basic animal, plant, and soil science; plant cultivation and soil conservation; and agricultural operations such as farming, ranching, and logging. Pathway coursework also provides instruction in subjects such as climate, air, soil, water, land, fish, wildlife, and plant resources; basic principles of environmental science and natural resource management; and agricultural business. Students will also learn of the recreational and economic uses of renewable and nonrenewable natural resources.

### COLLEGE AND CAREER CONNECTIONS

*Finding high-wage career opportunities directly out of high school can be challenging. It typically requires advanced capstone credentials accompanied by work experience and/or apprenticeships in the field.*

High School to Career	Community/Technical College to Career	University to Career
Crop Scout and Farm Laborer	Agricultural Mechanics Technology Technician	Ag Ed Leadership
Meat, Poultry, & Fish Cutter	Grain/Farm Manager	Food/Animal Science
Logger, Tree Tagger	Forestry and Conservation Technician	Horticulture/Forestry Science
Environmental Sampling Technician	Environmental Monitoring	Environmental Management Systems

### CAPSTONE CREDENTIALS

*In order to graduate, Jump Start students must earn at least one credential from the options below.*

Regional (Emerging)	Basic	Advanced
Career and Technical Certificate (LCTCS)*	Certificate of Technical Studies (LCTCS)*	Technical Diploma (LCTCS)*
Meat Processing	Ducks Unlimited Ecology Conservation and Management Certification	Forestry (Louisiana Forestry Association)
<ul style="list-style-type: none"> <li>Agricultural Career Development</li> <li>Agricultural Leadership Development</li> </ul>	Geographic Information System - Entry Level Technician Certification	Water Production Operator I, Water Treatment Operator I, AND Water Distribution Operator I
	FAA Part 107: Small Unmanned Aircraft Operations	
	Four Stroke Engine Technician	
	Louisiana Agritechnology (Louisiana Farm Bureau Federation)	
	<b>Louisiana Department of Health, Office of Public Health-Engineering Services:</b> <ul style="list-style-type: none"> <li>Water Production Operator I • Water Treatment Operator I • Water Distribution Operator I</li> </ul>	

*\*Aligned to pathway.*

**K16 PATHWAY  
ALIGNMENT**

**UNIVERSAL DOCUMENTS**

**[CDF ELIGIBLE COURSES](#) • [JUMP START FUNDING](#) • [UNIVERSAL COURSE CODES](#)**



Course Name	½ Credit Course Code	1 Credit Course Code	2 Credit Course Code	3 Credit Course Code
Advanced Nutrition and Food	100301	100303		
Advanced Technical Drafting		110590		
Aerospace Engineering		110830		
Ag Const. Tech		010444		
Ag Leadership		010364		
Ag Power Equipment		010446		
Agribusiness	010343	010443		
Agricultural Education Elective I	010500	010501	010502	010503
Agricultural Education Elective II	010510	010511	010512	010513
Agriscience Elective I	010401	010402	010403	010404
Agriscience Elective II	010411	010412	010413	010414
Agriscience II		010302		
Agriscience III		010303		
Agriscience IV		010304		
Agriscience-Construction	010344			
Agriscience-Leadership Development	010354			
Animal Science	010347			
AP Human Geography		220310		
AWS Welding I	313099	313100	313102	313103
AWS Welding II		313105	313106	313107
Basic Electricity I		310400	310402	310403
Business Math		040307		
Basic Technical Drafting		110560		
Biotechnology In Agriscience		010356		
Canine Care & Training	010380			
Career Readiness Agriscience Agribusiness Natural Resources**		010331		
Carpentry I		310600	310602	310603
Carpentry II		310605	310612	310613
CASE (Curriculum For Agri and Sc Ed) Animal Science		010475		
CASE (Curriculum For Agri and Sc Ed) Plant Science		010474		
CASE: Food Science and Safety		010332		
CASE: Introduction to Agriscience, Food, & Natural Resources		010333		
Chemistry		150401		
CMAD Drafting		110570	110571	110572
Comparative Anatomy and Physiology (LSU Partnership)		312095		
Computer Technology Literacy		040220		
Cooperative Agriscience Education I				010323
Cooperative Agriscience Education II				010325
Digital Media I		080800	080802	080803
Environ Studies in Agriscience		010430		
Environmental Science		150310		
Environmental Science: AP Environmental Science		150311		
Environmental Science: DE - CEVS 1103 Environmental Science		150914		
Equine Science	010349	010359		
Floristry		010460		
Food Science		155040		
Forestry	010351	010361		
Fundamentals of Industrial Scaffolding		310631	310632	

Course Name	½ Credit Course Code	1 Credit Course Code	2 Credit Course Code	3 Credit Course Code
GIS Entry Level 1		010103		
GIS Entry Level 2		010104		
Horticulture I	010352	010452		
Introduction to Biomedical Sciences (LSU Partnership)		090811		
Introduction to Computational Thinking		061141		
Introduction to Computational Thinking for STEM (LSU Partnership)		061140		
Introduction to Engineering Design (LSU Partnership)		110801		
Introduction to Hazardous Materials		311922		
Introduction to History of Water Management		312092		
Introduction to Remote Controlled Vehicle Technologies		110795		
Introduction to Social Media		080818		
Louisiana Wetlands Ecology		312090		
Meat Processing		010330		
NCCER Carpentry in Agriscience I		010601	010602	010603
NCCER Carpentry in Agriscience II		010604	010605	010606
NCCER Electrical in Agriscience I		010701	010702	010703
NCCER Electrical in Agriscience II		010704	010705	010706
NCCER Pipefitting in Agriscience I		010801	010802	010803
NCCER Pipefitting in Agriscience II		010804	010805	010806
NCCER Welding in Agriscience I		010901	010902	010903
NCCER Welding in Agriscience II		010904	010905	010906
NCCER Welding Technology I		110741 OR 313700	110742 OR 313702	110743 OR 313703
NCCER Welding Technology II	313628	110746 OR 313705	110747 OR 313712	110748 OR 313713
Nutrition and Food	100300	100302		
Outdoor Power Equipment Technician I		312300	312302	312303
Outdoor Power Equipment Technician II		312305	312312	312313
Outdoor Power Equipment Technician III		312320	312321	312322
Outdoor Power Equipment Technician IV		312330	312331	312332
PLTW Environmental Sustainability		312098		
PLTW Principles of Engineering		080109		
Power Mechanics		110330		
Pre-Apprenticeship I		080210	080208	
Pre-Apprenticeship II		080211	080209	
Principles of Engineering		110810	110811	
Principles of Engineering (LSU Partnership)		110864		
Small Animal Care & Management	010365	010375		
Small Engines (Applications)	010346			
Veterinary Assistant		010390		
Veterinary Assistant II		010391		
Water Distribution Operator		110502		
Water Production Operator		110500		
Water Treatment Operator		110501		

**\*\*Can be used to fulfill the career readiness course requirement for this pathway only.**

# ARCHITECTURE & CONSTRUCTION

For incoming freshmen 2020–2021



## OVERVIEW

The Architecture and Construction Jump Start 2.0 Pathway encompasses a vast array of careers all focused on the construction, design/pre-construction, and maintenance/operations of structures. These structures include residential neighborhoods, houses, and apartments; commercial buildings, warehouses, and offices; and public churches, schools, and recreational buildings. Pathway coursework will allow students to go directly into skilled trades as carpenters, plumbers, electricians, HVAC technicians or equipment operators. Architecture and Construction students will also be well prepared to continue their education to become professional architects, drafters, engineers, operators, and project managers.

## COLLEGE AND CAREER CONNECTIONS

*Finding high-wage career opportunities directly out of high school can be challenging. It typically requires advanced capstone credentials accompanied by work experience and/or apprenticeships in the field.*

High School to Career	Community/Technical College to Career	University to Career
HVAC, Carpenter, Electrician, Plumber, Pipefitter, Welder (Helper or Apprentice)	Multi-Craft Project & Construction Management	Architect
Construction Materials Field Technician	Building Technology Specialist	Structural Engineer
Forklift Operator	Heavy Equipment and Crane and Tower Operator	Systems Safety Engineer

## CAPSTONE CREDENTIALS

*In order to graduate, Jump Start students must earn at least one credential from the options below.*

Regional (Emerging)	Basic	Advanced
Career and Technical Certificate (LCTCS)*	Certificate of Technical Studies (LCTCS)*	Technical Diploma (LCTCS)*
Carpenter International Training Fund (CITF)	ABC Pelican Level 1	ABC Pelican Level 2
Career Connections: Pre-Apprentice Core Skills		
<b>NCCER:</b>		
• Construction Craft Laborer • Rigger	ADDA Certified Architectural Apprentice Drafter	Autodesk Inventor Certified User
• Scaffolding • Helper Modules		
<b>OSHA:</b>		
• OSHA 10** • OSHA 30	Autodesk Certified User AutoCAD	Carpenter International Training Fund (CITF) Career Connections: Level 2 OR 3
AutoDesk Revit	Basic Access Industrial Scaffolding	<b>NCCER Level 2 or above:</b>
		• Carpentry • Electrical • Heavy Equipment Operations • HVAC • Insulating • Millwright • Mobile Crane Operator • Pipefitting • Plumbing • Welding
	Carpenter International Training Fund (CITF) Career Connections: Level 1	Electrical Training ALLIANCE Interim Credential (etA): Levels 1-5
	<b>Electrical Training ALLIANCE Interim Credential (etA):</b>	EPA Section 608 Certification AND Air Conditioning, Electrical, OR Heat Employment Ready
	• Levels 1-3 • Level 4 • Level 5	
	EPA Section 608 Certification	
	Geographic Information System - Entry Level Technician Certification	
	FAA Part 107: Small Unmanned Aircraft Operations	
	Louisiana Micro-Enterprise - Statewide	
	North America's Building Trades Unions Multi-Craft Core Curriculum (MC3)	
	<b>NCCER:</b>	
	• Carpentry • Construction Technology • Electrical • Heavy Equipment Operations • HVAC • Insulating • Millwright • Mobile Crane Operator • Pipefitting • Plumbing • Welding	

\*Aligned to pathway. \*\*Credential is only available to students with disabilities as indicated by a current IEP.

Course Name	½ Credit Course Code	1 Credit Course Code	2 Credit Course Code	3 Credit Course Code
Advanced Electrical Electronics		310383		
Advanced Electricity/Electronics		110610		
Advanced Technical Drafting		110590		
Advanced Wood Technology		110120		
Ag Leadership		010364		
Ag Power Equipment		010446		
Agricultural Education Elective I	010500	010501	010502	010503
Agricultural Education Elective II	010510	010511	010512	010513
Agriscience Elective I	010401	010402	010403	
Agriscience Elective II	010411	010412	010413	010414
Agriscience II		010302		
Agriscience III		010303		
Agriscience IV		010304		
Air Conditioning/Refrigeration I		310100	310102	310103
Air Conditioning/Refrigeration II		310105	310112	310113
Air Conditioning/Refrigeration III		310114	310115	310116
Air Conditioning/Refrigeration IV		310117	310118	310119
Architectural Drafting		110580		
Auto Body Repair I		310200	310202	310203
Auto Body Repair II		310205	310212	310213
Auto Body Repair III		310214	310215	310216
Auto Body Repair IV		310217	310218	310219
Automotive Technician I		310300	310312	310313
Automotive Technician II		310305	310322	310323
Automotive Technician III		310306	310332	310333
Automotive Technician IV		310307	310342	310343
AWS Welding I		313100	313102	313103
AWS Welding II		313105	313106	313107
AWS Welding III		313108	313109	313110
AWS Welding IV		313111	313112	313113
Basic Electricity I		310400	310402	310403
Basic Electricity II		310410	310412	310413
Basic Electricity/Electronics		110600		
Basic SMAW		313120		
Basic Technical Drafting		110560		
Basic Wood Technology		110100		
Building Materials & Estimates		310620		
Business Math		040307		
Carpentry Calculations		310621		
Carpentry I		310600	310602	310603
Carpentry II		310605	310612	310613
CDF-Qualifying Pre-Apprenticeship II		080233	080234	
CDF-Qualifying Pre-Apprenticeship III		080236	080237	
CDF-Qualifying Pre-Apprenticeship IV		080239	080240	
Chemistry		150401		
Civil Engineering & Architecture		110840		
CMAD Drafting		110570	110571	110572

Course Name	½ Credit Course Code	1 Credit Course Code	2 Credit Course Code	3 Credit Course Code
Computer Integrated Manufacturing		110850		
Computer Technology Literacy		040220		
Construction Math – Level 1		110108		
Construction Math – Level 2		110109		
Design, Blueprint Reading & Codes		310622		
Desktop Publishing		040207 OR 061114		
Digital Media I		080800	080802	080803
Drafting & Design Technology I		311300	311302	311303
Drafting & Design Technology II		311305	311312	311313
Electrician I		311400	311402	311403
Electrician II		311405	311412	311413
Engineering Design and Development		110860		
Engineering Design and Development (LSU Partnership)		110861		
Engineering Design I		080110	080111	
Engineering Design II		080120	080121	
Environmental Science		150310		
Environmental Science: AP Environmental Science		150311		
Environmental Science: DE - CEVS 1103 Environmental Science		150914		
Exterior Finishes		310627		
Fundamentals of Industrial Scaffolding		310631	310632	
Geometry		160323		
GIS Entry Level 1		010103		
GIS Entry Level 2		010104		
G.M. Technician		313200	313202	313203
Grinder Assistant		110231		
Industrial Machines Shop I		311900	311902	311903
Industrial Machines Shop II		311905	311912	311913
Industrial Machines Shop III		311915	311916	311917
Industrial Machines Shop IV		311918	311919	311920
Interior Finishes		310628		
Introduction to Computational Thinking		061141		
Introduction to Computational Thinking for STEM: LSU Partnership		061140		
Introduction to Engineering Design	110799	110800		
Introduction to Engineering Design: LSU Partnership		110801		
Introduction to Hazardous Materials		311922		
Introduction to Remote Controlled Vehicle Technologies		110795		
Introduction to Social Media		080818		
Maintenance Assistant		313836		
Materials and Processes		110005		
NCCER Carpentry I		110701 OR 313300	110702 OR 313302	110703 OR 313303
NCCER Carpentry II		110706 OR 313305	110707 OR 313312	110708 OR 313313
NCCER Carpentry III		110700	110704	110705 OR 313317
NCCER Carpentry in Agriscience I		010601	010602	010603
NCCER Carpentry in Agriscience II		010604	010605	010606
NCCER Carpentry IV		110709	110710	110714
NCCER Construction Crafts		313726		
NCCER Construction Technology		110110		

Course Name	½ Credit Course Code	1 Credit Course Code	2 Credit Course Code	3 Credit Course Code
NCCER Electrical I		110711 OR 313400	110712 OR 313402	110713 OR 313403
NCCER Electrical II		110716 OR 313405	110717 OR 313412	110718 OR 313413
NCCER Electrical III		313417	313418	313419
NCCER Electrical IV		313420	313421	313422
NCCER Electrical in Agriscience I		010701	010702	010703
NCCER Electrical in Agriscience II		010704	010705	010706
NCCER Insulating		313829	313830	
NCCER Millwright		313714	313740	313741
NCCER Mobile Crane Level I		313720		
NCCER Mobile Crane Level II		313721		
NCCER Pipefitter I		110731 OR 313600	110732 OR 313602	110733 OR 313603
NCCER Pipefitter II		110736 OR 313605	110737 OR 313612	110738 OR 313613
NCCER Pipefitter III		313617	313616	
NCCER Pipefitter IV		313620	313619	
NCCER Pipefitting in Agriscience I		010801	010802	010803
NCCER Pipefitting in Agriscience II		010804	010805	010806
NCCER Plumbing I		312500	312502	312503
NCCER Plumbing II		312505	312512	312513
NCCER Rigging I		313731	313732	313733
NCCER Rigging II		313734	313735	313736
NCCER Rigging III		313737	313738	313739
NCCER Scaffolding Level 1		321000	321001	321002
NCCER Welding in Agriscience I		010901	010902	010903
NCCER Welding in Agriscience II		010904	010905	010906
NCCER Welding Technology I		110741 OR 313700	110742 OR 313702	110743 OR 313703
NCCER Welding Technology II		110746 OR 313705	110747 OR 313712	110748 OR 313713
NCCER Welding Technology III		313621	313622	313623
NCCER Welding Technology IV		313624	313625	313626
Physics		150000		
Outdoor Power Equipment Technician		312300	312302	312303
PLTW Engineering Design and Development		110862		
PLTW Civil Engineering and Architecture		110841		
PLTW Introduction to Engineering Design		110802		
PLTW Principles of Engineering		080109		
Pre-apprenticeship I		080210	080208	
Pre-apprenticeship II		080211	080209	
Principles of Engineering		110810	110811	
Principles of Engineering: LSU Partnership		110864		
Project Management		310630		
Quality Controls		313727		
Sheet Metal I		312700	312702	312703
Sheet Metal II		312705	312712	312713
Site Layout		310623		
SMAW Pipe 5G		313123		
SMAW Pipe 6G		313124		
Woodworks		010435		

# ARTS, A/V TECHNOLOGY & COMMUNICATION

For incoming freshmen 2020–2021



## OVERVIEW

The Arts, A/V Technology, and Communication Jump Start 2.0 Pathway prepares students to organize and manage various visual aspects of data, visual arts, performing arts, and entertainment media industries. Pathway coursework equips students to work with animation, interactive technology, video graphics, data visualization, and special effects. Coursework includes traditional fine arts media, modern media art theory, color theory, composition and perspective, equipment maintenance, studio management, and art portfolio marketing. This pathway also encompasses careers in augmented and virtual reality. Virtual reality is a computer-generated simulation of reality whereas augmented reality layers computer-generated images onto the real world.

## COLLEGE AND CAREER CONNECTIONS

*Finding high-wage career opportunities directly out of high school can be challenging. It typically requires advanced capstone credentials accompanied by work experience and/or apprenticeships in the field.*

High School to Career	Community/Technical College to Career	University to Career
Digital Photo Retoucher	Digital and Visual Content Developer	Graphic Designer
Videographer	Video Production Assistant	Film and Video Editor
Audio/Visual Technician	Multimedia Specialist	Audio Engineer
3D Modeler	Computer Animator	Virtual Reality and Immersive Media Designer

## CAPSTONE CREDENTIALS

*In order to graduate, Jump Start students must earn at least one credential from the options below.*

Regional (Emerging)	Basic	Advanced
Career and Technical Certificate (LCTCS)*	Certificate of Technical Studies (LCTCS)*	Technical Diploma (LCTCS)*
<b>Autodesk:</b> • Maya Certified User • 3ds Max Certified User	<b>Adobe Certified Professional:</b> • After Effects • Animate • Dreamweaver • Flash • Illustrator • InDesign • Photoshop • Premier Pro	<b>Adobe Certified Professional:</b> • Visual Design • Video Design • Web Design
	Autodesk Certified User AutoCAD	<b>Adobe Certified Expert:</b> • Dreamweaver • Illustrator • InDesign • Photoshop • Premier Pro
	AVID ProTools User	Autodesk Inventor Certified User
	<b>Certified Internet Web (CIW):</b> • Internet Business Associate • Network Technology Associate • Site Development Associate	AVID Media Composer
	FAA Part 107: Small Unmanned Aircraft Operation	CIW Web Foundations Associate
	Fundamentals of JavaScript, Functional Programming and Web Development, Lvl 1	Digital Media Portfolio
		Fundamentals of JavaScript, Functional Programming and Web Development, Lvl 2

*\*Aligned to pathway.*

**K16 PATHWAY  
ALIGNMENT**

**UNIVERSAL DOCUMENTS**

**CDF ELIGIBLE COURSES • JUMP START FUNDING • UNIVERSAL COURSE CODES**



Course Name	½ Credit Course Code	1 Credit Course Code	2 Credit Course Code	3 Credit Course Code
Advanced Band		030302		
Advanced JavaScript, Programming, and Web Development		080520	080526	
Advanced Orchestra		030322		
Advanced Technical Drafting		110590		
Advanced Television Broadcasting I		080000	080002	080003
Advanced Television Broadcasting II		080005	080012	080013
AP Computer Science A		061175		
AP Computer Science Principles		061177		
Applied Music		030360		
Architectural Drafting		110580		
Art I		030501		
Art II		030502		
Art III		030503		
Art IV		030504		
Art Elective		030599		
Studio Art Design: AP Studio Art 2D Design		030509		
AP Studio Art 3-D Design		030508		
Studio Art Drawing: AP Studio Art Drawing		030519		
Audio Engineering		311314		
Basic/Advanced Film: LSU Partnership		080023		
Basic Technical Drafting		110560		
Beginning Band		030300		
Beginning Choir		030310		
Broadcasting I		080014		
Broadcasting II		080015		
Broadcasting III		080016		
Broadcasting IV		080017		
Business Math		040307		
Carpentry I		310600	310602	310603
Carpentry II		310605	310612	310613
CIW Database Design		080505		
CIW Essentials of Web Design		040517		
CIW Internet Business		040405		
CIW Introduction to JavaScript		061125		
CIW Networking Technology		061120		
CIW Perl Fundamentals		061126		
CIW Website Development		040415		
Coding for the Web: LSU Partnership		040244		
Commercial Art I		310700	310702	310703
Commercial Art II		310705	310712	310713
Computer Electronics I		310800	310802	310803
Computer Electronics II		310805	310812	310813
Computer Multimedia Presentations	040206	040106		
Computer Science II		061103		
Computer Service Technology I	310814	310818	310820	310821
Computer Service Technology II		310819	310822	310823
Computer Systems/Networking I		061112		
Computer Systems/Networking II		061136		



Course Name	½ Credit Course Code	1 Credit Course Code	2 Credit Course Code	3 Credit Course Code
Computer Technology Literacy		040220 OR 061101		
Cyber Literacy I		040213		
Cyber Literacy II		040215		
Cyber Literacy (NICERC Partnership)		040221		
Cyber Literacy II (NICERC Partnership)		040222		
Cyber Science		040214		
Cyber Science (NICERC Partnership)		040219		
Dance I		030600		
Dance II		030621		
Dance III		030631		
Dance IV		030641		
Database Design and Programming		080501		
Desktop Publishing		040207 OR 061114		
Digital Graphics and Animation		061115		
Digital Media I		080800	080802	080803
Digital Media II		080805	080812	080813
Digital Media III		080831	080832	080833
Digital Media IV		080834	080835	080836
Digital Photography		312414		
Digital Story Telling: LSU Partnership		040241		
Entertainment Technologies		080811		
Film and TV: LSU Partnership		080024		
Fine Arts Survey		030332		
Fine Arts Survey: AP Music Theory		030364		
Fine Arts Survey: DE - CART 1013 Exploring the Arts		030593		
Fine Arts Survey: DE - CART 1023 Introduction to Visual Arts		030592		
Fine Arts Survey: DE - CDNC 1013 Dance Appreciation		030591		
Fine Arts Survey: DE - CMUS 1013 Music Appreciation		030590		
Fundamentals of HTML, CSS, and JavaScript		080523		
Geometry		160323		
Graphic Arts I		311600	311602	311603
Graphic Arts II		311605	311612	311613
Graphic Arts III		311614	311615	311616
Graphic Arts IV		311617	311618	311619
Interactive Computing (LSU Partnership)		061180		
Interactive Digital Media Capstone: LSU Partnership		040245		
Interactive Media I		080814		
Interactive Media II		080815		
Intermediate Band		030301		
Introduction to Computational Thinking		061141		
Introduction to Computational Thinking for STEM: LSU Partnership		061140		
Introduction to Programming	080860	080500		
Introduction to Social Media		080818		
Keyboarding	040225	040229		
Keyboarding Applications	040226			
Media Arts I		030810		
Media Arts II		030820		

Course Name	½ Credit Course Code	1 Credit Course Code	2 Credit Course Code	3 Credit Course Code
Media Arts III		030830		
Media Arts IV		030840		
Motion Graphics		080816		
Multimedia Productions		061116		
Music Elective		030399		
Music and Media		030318		
Music and Technology		030319		
Music: Gifted and Talented Music I		030371		
Music: Gifted and Talented Music II		030372		
Music: Gifted and Talented Music III		030373		
Music: Gifted and Talented Music IV		030374		
*NCCER Carpentry I		110701 OR 313300	110702 OR 313302	110703 OR 313303
Operation Spark Partnership: Fundamentals of Video Game Programming		TBD		
Operation Spark Partnership: Internet of Things Programming		TBD		
Percussion Ensemble		030307		
Photography I		312400	312402	312403
Photography II		312405	312412	312413
PLTW - Computer Science Essentials		061100		
Principles of Marketing I		041025		
Principles of Visual Design		080817		
Professional Web and Mobile Development		080533		
Programming for Digital Media: LSU Partnership		040243		
Publications I (Newspaper)		050605		
Publications II (Newspaper)		050606		
Publications I (Yearbook)		050603		
Publications II (Yearbook)		050604		
Remote Controlled Vehicle Technology		110796	110797	110798
Small Vocal Ensemble		030313		
Sound Design: LSU Partnership		080020		
Speech II		051102		
Speech III		051103		
Speech IV		051104		
Studio Art Design: DE - CART 1113 Art Structure/2D Design		030520		
Studio Art Design: Gifted and Talented Visual Arts I		030514		
Studio Art Design: Gifted and Talented Visual Arts II		030515		
Studio Art Design: Gifted and Talented Visual Arts III		030516		
Studio Art Design: Gifted and Talented Visual Arts IV		030517		
Studio Art Drawing: DE - CART 2203 Beginning Drawing		030521		
Technical Theatre		030701		
Television Production I		312800	312802	312803
Television Production II		312805	312812	312813
Theatre I		030700		
Theatre II		030721		
Theatre III		030731		
Theatre IV		030741		
Theatre Design and Technology		030702		
Theatre Elective I		030703		

Course Name	½ Credit Course Code	1 Credit Course Code	2 Credit Course Code	3 Credit Course Code
Theatre: Gifted and Talented Theatre I		030710		
Theatre: Gifted and Talented Theatre II		030711		
Theatre: Gifted and Talented Theatre III		030712		
Theatre: Gifted and Talented Theatre IV		030713		
Video Game Design: LSU Partnership		080022		
Web Design	040210 OR 080830	040211		
Web Design II		040212		

*\*NCCER Carpentry 1 was added to the pathway to allow students the opportunity to learn the building trades in order to build sets and scenery for productions.*

## BUSINESS MANAGEMENT

For incoming freshmen 2020–2021



### OVERVIEW

The Business Management and Administration Jump Start 2.0 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. Pathway coursework equips students to give support needed to make all aspects of a business run, whether training new employees or leading as a top executive. This pathway also encompasses social media use as a marketing strategy to promote and keep businesses relevant.

### COLLEGE AND CAREER CONNECTIONS

*Finding high-wage career opportunities directly out of high school can be challenging. It typically requires advanced capstone credentials accompanied by work experience and/or apprenticeships in the field.*

High School to Career	Community/Technical College to Career	University to Career
Administrative Assistant	Executive Secretaries and Executive Administrative Assistants	Management Professional
Customer Service Representative	Human Resource Assistant	Human Resources Director
Payroll Clerk	Business and Office Management	Business and Office Operations Management
Digital Layout Designer	Communications Specialist	Social Media/Market Research Strategist

### CAPSTONE CREDENTIALS

*In order to graduate, Jump Start students must earn at least one credential from the options below.*

Regional (Emerging)	Basic	Advanced
Career and Technical Certificate (LCTCS)*	Certificate of Technical Studies (LCTCS)*	Technical Diploma (LCTCS)*
Customer Service and Sales	<b>Adobe Certified Professional:</b> • After Effects • Animate • Dreamweaver • Illustrator • InDesign • Photoshop • Premier Pro	<b>Adobe Certified Professional:</b> • Visual Design • Video Design • Web Design
Louisiana Micro-Enterprise - Regional	Business Operations Credential	Fundamentals of JavaScript, Functional Programming and Web Development, Lvl 2
<b>Microsoft Office Specialist:</b> • Access • Word, PowerPoint AND Excel	Business of Retail: Operations & Profit	
	CIW Internet Business Associate	
	Geographic Information System - Entry Level Technician Certification	
	Fundamentals of JavaScript, Functional Programming and Web Development, Lvl 1	
	Louisiana Micro-Enterprise - Statewide	

*\*Aligned to pathway.*

**K16 PATHWAY  
ALIGNMENT**

**UNIVERSAL DOCUMENTS**

**[CDF ELIGIBLE COURSES](#) • [JUMP START FUNDING](#) • [UNIVERSAL COURSE CODES](#)**

Course Name	½ Credit Course Code	1 Credit Course Code	2 Credit Course Code	3 Credit Course Code
Accounting II		040104		
Administrative Support Occupations		040201		
Advanced Finance	080671			
Advanced Javascript, Programming, and Web Development		080520	080526	
Advanced Nutrition and Food	100301	100303		
Advanced Technical Drafting		110590		
Advanced Television Broadcasting I		080000	080002	080003
Advanced Television Broadcasting II		080005	080012	080013
Advertising & Sales Promotion		041042		
Agriscience II		010302		
Agriscience III		010303		
Agriscience IV		010304		
Barber I			312912	312913
Barber II			312922	312923
Barber III			312932	
Barber IV			312942	
Basic Technical Drafting		110560		
Business Communications		040305 OR 125030		
Business Economics	080610			
Business English (Vocational)		040302		
Business Enterprises for the Visually Impaired		080901		
Business in a Global Economy	080660			
Business Math		040307		
Carpentry I		310600	310602	310603
Carpentry II		310605	310612	310613
CIW Database Design		080505		
CIW Internet Business		040405		
CIW Networking Technology		061120		
CIW Website Development		040415		
Coding for the Web: LSU Partnership		040244		
Computer Technology Literacy		040220 OR 061101		
Consumer Finance and Banking		080250		
Cosmetology I		310900	310902	310903
Cosmetology II		310905	310912	310913
Cosmetology III			310914	310915
Cosmetology IV			310916	310917
CTE Internship I (Non-CDF)	110406	110402	110403	
CTE Internship II (Non-CDF)		110404	110405	
Data Manipulation and Analysis (LSU Partnership)		080532		
Desktop Publishing		040207 OR 061114		
Digital Graphics and Animation		061115		
Digital Media I		080800	080802	080803
Digital Media II		080805	080812	080813
Digital Media III		080831	080832	080833
Digital Media IV		080834	080835	080836
Digital Story Telling: LSU Partnership		040241		

Course Name	½ Credit Course Code	1 Credit Course Code	2 Credit Course Code	3 Credit Course Code
Economics		220201		
Economics (Vocational)		040208		
Economics: AP Macroeconomics		220603		
Economics: AP Microeconomics		220605		
Economics: DE - CECN 2213 Macroeconomics		220608		
Economics: DE - CECN 2223 Microeconomics		220609		
Economics: DE - ECON 2113 Economic Principles		220202		
Engineering Economy: LSU Partnership		144200		
Ethics In Business	080640			
Financial Planning	080630			
Financial Services	080620			
Fundamentals of HTML, CSS, and Javascript		080523		
Fundamentals of Industrial Scaffolding		310631	310632	
Fundamentals of Real Estate		041044		
Graphics Arts I		311600	311602	311603
Graphic Arts II		311605	311612	311613
Graphic Arts III		311614	311615	311616
Graphic Arts IV		311617	311618	311619
Hospitality Marketing	080760			
Introduction to Computational Thinking		061141		
Introduction to Computational Thinking for STEM (LSU Partnership)	061140			
Introduction to Social Media		080818		
Keyboarding	040225	040229		
Keyboarding Applications	040226			
Lodging Management I		040502	040503	040504
Lodging Management II		040505	040506	040507
Managerial Accounting	080691			
Marketing Management		041052		
Marketing Research		041053		
Media Arts I		030810		
Media Arts II		030820		
Media Arts III		030830		
Media Arts IV		030840		
Medical Terminology	090149	090151		
Multimedia Productions		061116		
Principles of Accounting	080690			
Principles of Finance	080670			
Principles of Hospitality and Tourism	080710			
Principles of Marketing I		041025		
Principles of Marketing II		041026		
Pro Start I	100306	100307	100308	100309
Pro Start II		100321	100322	100323
Professional Web and Mobile Development				080533
Publications I (Newspaper)		050605		
Publications II (Newspaper)		050606		
Publications I (Yearbook)		050603		
Publications II (Yearbook)		050604		
Retail Marketing		041043		

Course Name	½ Credit Course Code	1 Credit Course Code	2 Credit Course Code	3 Credit Course Code
Speech II		051102		
Sports and Entertainment Marketing		041060		
Tourism Marketing		041081		
Web Design	040210 OR 080830	040211		
Word Processing		040203		

## HEALTH SCIENCES

For incoming freshmen 2020–2021



### OVERVIEW

The Health Science Jump Start 2.0 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. Students in this pathway study basic, intermediate, and advanced EMT procedures; emergency surgical procedures; medical triage; rescue operations; crisis scene management and personnel supervision; equipment operation and maintenance; patient stabilization, monitoring, and care; drug administration; identification and preliminary diagnosis of diseases and injuries; communication and computer operations; basic anatomy, physiology, pathology, and toxicology; professional standards and regulations. This pathway exposes students to occupations in biotechnology research and development, diagnostic services, health informatics, support services, and therapeutic services in private businesses, industry, community organizations, and health care facilities. This pathway also equips students to have careers in allied health services that are preemptive and centered on wellness.

### COLLEGE AND CAREER CONNECTIONS

*Finding high-wage career opportunities directly out of high school can be challenging. It typically requires advanced capstone credentials accompanied by work experience and/or apprenticeships in the field.*

High School to Career	Community/Technical College to Career	University to Career
Emergency Medical Technician	Paramedic	Emergency Medical Doctor
Dental Assistant/Pharmacy Aide	Dental Technician/Pharmacy Technician	Dentist/Clinical Pharmacists
Nurse Assistant	Licensed Practical Nurse	Registered Nurse
Medical Assistant	Medical Records and Health Information Technicians	Medical Doctor

### CAPSTONE CREDENTIALS

*In order to graduate, Jump Start students must earn at least one credential from the options below.*

Regional (Emerging)	Basic	Advanced
Career and Technical Certificate (LCTCS)*	Certificate of Technical Studies (LCTCS)*	Technical Diploma (LCTCS)*
Basic Firefighting	Certified Nurse Aide	Certified Clinical Medical Assistant (CCMA)
Certified Coding Associate (CCA®)	Dental Assistant - NOCTI	Emergency Medical Technician (EMT)
Certified EKG Technician	Emergency Medical Responder (EMR)	Expanded Duty Dental Assistant (EDDA)
National Certified Insurance & Coding (NCICS)	Geographic Information System - Entry Level Technician Certification	
Phlebotomy Technician	Patient Care Technician/Assistant	
	Pharmacy Technician Certification (ExCPT)	
	Pharmacist Technician Certification (PTCE)	

*\*Aligned to pathway.*

**K16 PATHWAY  
ALIGNMENT**

**UNIVERSAL DOCUMENTS**

**[CDF ELIGIBLE COURSES](#) • [JUMP START FUNDING](#) • [UNIVERSAL COURSE CODES](#)**



Course Name	½ Credit Course Code	1 Credit Course Code	2 Credit Course Code	3 Credit Course Code
Advanced CPT Coding		090530		
Advanced Nutrition and Food	100301	100303		
AHEC of a Summer: Career Exploration	090016			
Allied Health Science		155010		
Allied Health Services I		090101	090102	
Allied Health Services II		090104	090105	
Anatomy and Physiology		150306		
Anatomy and Physiology II		150329		
Anatomy: DE - CBIO 2213 Human Anatomy & Physiology I		150330		
Anatomy: DE - CBIO 2214 Human Anatomy & Physiology I (Lec/Lab)		150331		
Anatomy: DE - CBIO 2223 Human Anatomy & Physiology II		150332		
Anatomy: DE - CBIO 2224 Human Anatomy & Physiology II (Lec/Lab)		150333		
Basic Body Structure and Function		155020		
Basic Coding I		090500		
Basic Coding II		090510		
Basic CPT Coding		090520		
Bioengineering and Biomedical Engineering		140501		
Bioinformatics: LSU Partnership		090813		
Biology II		150302		
Biology II: AP Biology		150307		
Biology II: DE - BIOL 2102 General Microbiology		149995		
Biomedical Capstone: LSU Partnership		090812		
Biomedical Innovation		090840		
Business Math		040307		
Chemistry		150401		
Chemistry II: AP Chemistry		150410		
Chemistry II: DE - CCEM 2213 Organic Chemistry I		150505		
Child Development	100602	100604		
Comparative Anatomy & Physiology (LSU Partnership)		312095		
Computer Technology Literacy		040220 OR 061101		
Conservation Biology (LSU Partnership)		312094		
Data Manipulation and Analysis (LSU Partnership)		080532		
Dental Assistant I		090301	090302	
Dental Assistant II			090312	090313
Desktop Publishing		040207 OR 061114		
Digital Media I		080800	080802	080803
Digital Media II		080805	080812	080813
Digital Media III		080831	080832	080833
Digital Media IV		080834	080835	080836
EKG I		090473		
EKG II		090474		
Emergency Medical Technician Basic			090943	090944
Environmental Science		150310		
Environmental Science: AP Environmental Science		150311		
Environmental Science: DE - CEVS 1103 Environmental Science		150914		
Family and Consumer Sciences I		100401		

Course Name	½ Credit Course Code	1 Credit Course Code	2 Credit Course Code	3 Credit Course Code
Food Science		155040		
Forensic Science		155050		
Forensic Science: LSU Partnership		312096		
Genetics: LSU Partnership		312097		
Health Occupations Elective	090000	090099 OR 090001	090118	090119
Health Science I		090611	090612	
Health Science II		090621	090622	
Human Body Systems		090820		
Information Management for Allied Health Professionals		090550		
Introduction to Biomedical Sciences (LSU Partnership)		090811		
Introduction to Emergency Medical Technology		090471	090472	
Introduction to Pharmacy Assistant		090005		
Introductory Anatomy and Physiology Laboratory		150309		
Keyboarding	040225	040229		
Keyboarding Applications	040226			
Medical Assistant I		090251	090252	090254
Medical Assistant II		090451	090452	
Medical Assistant III		090461	090462	
Medical Interventions		090830		
Medical Math (LCTCS Dual Enrollment Option)		165020		
Medical Terminology	090149	090151		
Medical Terminology II		090152		
Nurse Assistant		090236	090237	090238
Nutrition and Food	100300	100302		
Patient Care Technician		090261	090262	090263
Pharmacy Technician		090009	090010	
Phlebotomy		090022		
Principles of the Biomedical Sciences		090810		
Professional Practice Medical Coding I		090570		
Professional Practice Medical Coding II		090571		
Psychology		222001		
Psychology: AP Psychology		222004		
Psychology: DE CPSY 2013 - Introduction to Psychology		225011		
Sports Medicine I	090720	090723		
Sports Medicine II	090721	090724		
Sports Medicine III		090722		
Survey of Pharmacy: Xavier Partnership		090011		
Veterinary Assistant I		010390		
Veterinary Assistant II		010391		

## HOSPITALITY & TOURISM

For incoming freshmen 2020–2021



### OVERVIEW

The Hospitality and Tourism Jump Start 2.0 Pathway prepares students for a variety of jobs within the food and lodging service industries. Pathway coursework includes instruction in food preparation, cooking techniques, equipment operation and maintenance, sanitation and safety, communication skills, applicable regulations, and principles of food management control. This pathway also encompasses the management of food service, food control, logistics, supply inventory, control, lodging and hotel, marketing. Hospitality and tourism workers help people to enjoy vacations, entertainment and recreation activities and dining experiences.

### COLLEGE AND CAREER CONNECTIONS

*Finding high-wage career opportunities directly out of high school can be challenging. It typically requires advanced capstone credentials accompanied by work experience and/or apprenticeships in the field.*

High School to Career	Community/Technical College to Career	University to Career
Research and Development Cook	Research and Development Manager	Food Scientist (Culinologist)
Line Cook	Prep Cook	Sous Chef
Front Desk Worker	Hospitality Management	Hotel Manager
Shift Lead	Food Service Manager	Restaurant Manager

### CAPSTONE CREDENTIALS

*In order to graduate, Jump Start students must earn at least one credential from the options below.*

Regional (Emerging)	Basic	Advanced
Career and Technical Certificate (LCTCS)*	Certificate of Technical Studies (LCTCS)*	Technical Diploma (LCTCS)*
Certified Guest Room Attendant	Business of Retail: Operations & Profit	ManageFirst Professional
Certified Guest Service Professional	Certified Hospitality and Tourism Management Professional AND Certified Guest Service Professional	
Certified Hospitality and Tourism Management, Year II	Geographic Information System - Entry Level Technician Certification	
Certified Restaurant Server	Louisiana Micro-Enterprise - Statewide	
Customer Service and Sales	ProStart National Certificate of Achievement AND ServSafe Food Protection Manager	
Louisiana Micro-Enterprise - Regional		
ProStart National Certificate of Achievement AND ServSafe Food Handler		
ServSafe Food Handler		
ServSafe Food Protection Manager		

*\*Aligned to pathway.*

**K16 PATHWAY  
ALIGNMENT**

**UNIVERSAL DOCUMENTS**

**[CDF ELIGIBLE COURSES](#) • [JUMP START FUNDING](#) • [UNIVERSAL COURSE CODES](#)**

Course Name	½ Credit Course Code	1 Credit Course Code	2 Credit Course Code	3 Credit Course Code
Advanced Nutrition and Food	100301	100303		
Advanced Television Broadcasting I		080000	080002	080003
Advanced Television Broadcasting II		080005	080012	080013
Advertising and Sales Promotion		041042		
American Sign Language I		123456		
American Sign Language II		123457		
Applied Chemistry		150450		
Baking and Pastry Arts I		100331	100332	100333
Baking and Pastry Arts II		100341	100342	100343
Business Communications		040305		
Business Math		040307		
Chemistry I		150401		
Chemistry I: DE - CCEM 1013 General Chemistry Survey I		150413		
Chemistry II		150402		
Chemistry II: AP Chemistry		150410		
Chemistry II: DE - CCEM 1013 General Chemistry Survey I		150418		
CIW Essentials of Web Design		040517		
CIW Internet Business		040405		
Computer Systems/Networking		061112		
Computer Technology Literacy		040220		
Culinary Occupations I		311000	311002	311003
Culinary Occupations II		311005	311012	311013
Desktop Publishing		040207 OR 061114		
Digital Graphics and Animation		061115		
Digital Media I		080800	080802	080803
Digital Media II		080805	080812	080813
Digital Media III		080831	080832	080833
Digital Media IV		080834	080835	080836
Digital Storytelling: LSU Partnership		040241		
Environmental Science		150310		
Environmental Science: AP Environmental Science		150311		
Environmental Science: DE - CEVS 1103 Environmental Science		150914		
Family and Consumer Sciences I		100401		
Family and Consumer Sciences II		100402		
Food Science		100315		
Food Service Technician		100353		
Food Services I		100361	100362	100363
Food Services II		100371	100372	100373
Graphic Arts I		311600	311602	311603
Graphic Arts II		311605	311612	311613
Guestroom Attendant I		312943	312944	312945
Guestroom Attendant II		312946	312947	312948
Hospitality Marketing	080760			
Introduction to Computational Thinking		061141		
Introduction to Computational Thinking for STEM (LSU Partnership)		061140		
Introduction to Programming	080860	080500		
Introduction To Social Media		080818		

Course Name	½ Credit Course Code	1 Credit Course Code	2 Credit Course Code	3 Credit Course Code
Keyboarding	040225	040229		
Keyboarding Applications	040226			
Lodging Management I		040502	040503	040504
Lodging Management II		040505	040506	040507
Marketing Management		041052		
Meat Processing		010330		
Nutrition and Food	100300	100302		
Principles of Hospitality and Tourism	080710			
Principles of Marketing I		041025		
Prostart I		100307	100308	100309
Prostart II		100321	100322	100323
Psychology		222001		
Psychology AP		222004		
Psychology: DE CPSY 2013 - Introduction to Psychology		225011		
Publications I (Newspaper)		050605		
Publications I (Yearbook)		050603		
Publications II (Newspaper)		050606		
Publications II (Yearbook)		050604		
Restaurant Server I		080770	080771	080772
Restaurant Server II		080773	080774	080775
Speech II		051102		
Sports Entertainment & Event Management	080740			
Sustainable Tourism	080750			
Tourism Marketing		041081		
Web Design		040211		

# INFORMATION TECHNOLOGY

For incoming freshmen 2020–2021



## OVERVIEW

The Information Technology Jump Start 2.0 Pathway prepares students for the design, development, installation, implementation, and maintenance of computer systems, software, hardware, networks, and cloud computing. Pathway coursework equips students with the knowledge of software development life cycles (SDLC), computer operating systems, programming languages, and software development. Pathway coursework also equips students to perform IT services such as implementation of computer systems and software, provision of technical assistance, develop and read technical design documents, management of information systems, and the system testing process. Students will work with cutting-edge technology to develop tomorrow's products for use by business and consumers.

## COLLEGE AND CAREER CONNECTIONS

*Finding high-wage career opportunities directly out of high school can be challenging. It typically requires advanced capstone credentials accompanied by work experience and/or apprenticeships in the field.*

High School to Career	Community/Technical College to Career	University to Career
Software Tester	Computer Programmer	Software Engineer
Data Entry Specialist	Data Visualization Specialist	Data Analyst
Cyber Vulnerability Tester	Cyber Security Specialist	Cyber Security Analyst
Robotic Systems Tester	Robotics Process Specialist	Robotic Simulation Engineer

## CAPSTONE CREDENTIALS

*In order to graduate, Jump Start students must earn at least one credential from the options below.*

Regional (Emerging)	Basic	Advanced
Career and Technical Certificate (LCTCS)*	Certificate of Technical Studies (LCTCS)*	Technical Diploma (LCTCS)*
Amazon Web Service Cloud Practitioner	App Development with Swift Level 1	Adobe Certified Expert Dreamweaver
Microsoft Certified Solutions Associate (MCSA)	<b>Adobe Certified Associate:</b> • After Effects • Animate • Dreamweaver • Illustrator • InDesign • Photoshop • Premier Pro	<b>Adobe Certified Professional:</b> • Visual Design • Video Design • Web Design
<b>Microsoft Office Specialist:</b> • Access • Word, PowerPoint AND Excel	Amazon Web Services Certified Cloud Practitioner	Amazon Web Services Foundational
Microsoft Technology Associate (MTA)	<b>C-Tech Associates:</b> • Smart Home Professional • Network Cabling Specialist	C-Tech Associates Broadband Professional
RobotC	<b>CIW:</b> • Internet Business Associate • Site Development Associate • Network Technology Associate • E-Commerce Specialist • Web Design Specialist • JavaScript Specialist 2.0 • Database Design Specialist • Perl Specialist • Web Security Associate • Web Security Specialist	<b>CIW:</b> • Web Foundations Associate • Web Design Professional • Web Development Professional • Web Security Professional
	<b>CompTIA:</b> IT Fundamentals +	Fundamentals of JavaScript, Functional Programming and Web Development, Lvl 2
	Geographic Information System - Entry Level Technician Certification	<b>CompTIA:</b> • Network+ • A+ • Security+
	Fundamentals of JavaScript, Functional Programming and Web Development, Lvl 1	Oracle Certified Professional (OCP) Java Programmer II
	Oracle Database PL/SQL Developer Certified Associate	
	Oracle Certified Professional (OCP) Java Programmer I	
	PYTHON Certification	

\*Aligned to pathway.

Course Name	½ Credit Course Code	1 Credit Course Code	2 Credit Course Code	3 Credit Course Code
Advanced Television Broadcasting I		080000	080002	080003
Advanced Television Broadcasting II		080005	080012	080013
Advanced JavaScript, Programming, and Web Development		080520	080526	
AP Computer Science A		061175		
AP Computer Science Principles		061177		
Audio Engineering	311314			
Basic Electricity/Electronics		110600		
Basic Technical Drafting		110560		
Broadcasting I		080014		
Broadcasting II		080015		
Broadcasting III		080016		
Broadcasting IV		080017		
CIW Database Design		080505		
CIW E-Commerce Site Design and Development		040519		
CIW Essentials of Web Design		040517		
CIW Internet Business		040405		
CIW Introduction to JavaScript		061125		
CIW Network Security		061121		
CIW Networking Technology		061120		
CIW Perl Fundamentals		061126		
CIW Website Development		040415		
Coding for the Web: LSU Partnership		040244		
Communication Technology		110540		
Comp TIA+ Fundamentals of Computer Installation and Configur		061130		
Comp TIA+ Networking Fundamentals		061122		
COMP TIA+ Programming with PL/SQL		061127		
COMP TIA+ Security		061138		
Computer Applications		061110		
Computer Architecture		061111		
Computer Electronics I		310800	310802	310803
Computer Electronics II		310805	310812	310813
Universal Course				
Computer Science II		061103		
Computer Service Technology I	310814	310818	310820	310821
Computer Service Technology II		310819	310822	310823
Computer Systems/Networking I		061112		
Computer Systems/Networking II		061136		
Computer Technology Literacy		040220		
Creative Coding Through Games and Apps		061133		
Cyber Literacy I (NICERC Partnership)		040221		
Cyber Literacy II (NICERC Partnership)		040222		
Cyber Literacy I		040213		
Cyber Literacy II		040215		
Cyber Science		040214		
Universal Course				
Data Manipulation and Analysis: LSU Partnership		080532		
Database Design and Programming		080501		
Databases Design	080840			

Course Name	½ Credit Course Code	1 Credit Course Code	2 Credit Course Code	3 Credit Course Code
Desktop Publishing		040207 OR 061114		
Digital Graphics and Animation		061115		
Digital Media I		080800	080802	080803
Digital Media II		080805	080812	080813
Digital Media III		080831	080832	080833
Digital Media IV		080834	080835	080836
Digital Storytelling: LSU Partnership		040241		
First Robotics I		150740		
First Robotics II		150750		
First Robotics III		150760		
First Robotics IV		150770		
Fundamentals of HTML, CSS, and JavaScript		080523		
GIS Entry Level 1		010103		
GIS Entry Level 2		010104		
Geometry		160323		
Graphic Arts I		311600	311602	311603
Graphic Arts II		311605	311612	311613
Graphic Arts III		311614	311615	311616
Graphic Arts IV		311617	311618	311619
Independent Study in Technology Applications I		061118	061119	
Independent Study in Technology Applications II		061123		
Interactive Computing (LSU Partnership)		061180		
Introduction to Computational Thinking for STEM:LSU Partnership		061140		
Introduction to Computational Thinking		061141		
Introduction to Engineering Design	110799	110800		
Introduction to Engineering Design (LSU Partnership)		110801		
Introduction to Programming	080860	080500		
Introduction to Remote Controlled Vehicle Technologies		110795		
Introduction to Social Media		080818		
Keyboarding	040225	040229		
Keyboarding Applications	040226			
Media Arts I		030810		
Media Arts II		030820		
Media Arts III		030830		
Media Arts IV		030840		
Multimedia Productions		061116		
Networking Basics			310850	310851
Operation Spark Partnership: Fundamentals of Video Game Programming		TBD		
Operation Spark Partnership: Internet of Things Programming		TBD		
Operation Spark: Professional Software Development		TBD		
Physics I		150000 OR 150700		
PLTW Digital Electronics		110821		
PLTW Introduction to Engineering Design		110802		
PLTW Principles of Engineering		080109		
Principles of Engineering		110810	110811	
Principles of Engineering: LSU Partnership		110864		



Course Name	½ Credit Course Code	1 Credit Course Code	2 Credit Course Code	3 Credit Course Code
Programming for Digital Media: LSU Partnership		040243		
Programming for Engineers (LSU Partnership)		144300		
Programming Logic and Design		080502		
Remote Controlled Vehicle Technologies		110796	110797	110798
Robotics (LSU Partnership)		150780		
Robotics Beginner		150723		
Robotics: Advanced		150730	150731	
Robotics: Intermediate		150729		
Software Design and Programming I		080503		
Software Design and Programming II		080504		
Survey of Computer Science (LSU Partnership)		061179		
Technology Education Elective I	110099	110199	110101	110102
Television Production I		312800	312802	312803
Television Production II		312805	312812	312813
Web Design I	040210	040211		
Web Design II	080830	040212		
Webmastering		061117		

## MANUFACTURING

For incoming freshmen 2020–2021



### OVERVIEW

The Manufacturing Jump Start 2.0 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. Students will be able to perform preventative maintenance procedures on machines, tools, and equipment on a routine and regular basis. This pathway also encompasses petrochemical courses where students will learn about the refining and processing of petroleum and/or natural gas. 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.

### COLLEGE AND CAREER CONNECTIONS

*Finding high-wage career opportunities directly out of high school can be challenging. It typically requires advanced capstone credentials accompanied by work experience and/or apprenticeships in the field.*

High School to Career	Community/Technical College to Career	University to Career
Entry Level Warehouse Operator	Mechanical/Piping/Electrical Designer Trainee	Chemical Engineer
Instrument Technician Trainee	Instrument Technician	Mechanical Engineer
Electrical Technician Trainee	Electrical Technician	Electrical Engineer

### CAPSTONE CREDENTIALS

*In order to graduate, Jump Start students must earn at least one credential from the options below.*

Regional (Emerging)	Basic	Advanced
Career and Technical Certificate (LCTCS)* <b><u>AutoDesk Certified User:</u></b> • Fusion 360 • Rivet	Certificate of Technical Studies (LCTCS)* ADDA Certified Mechanical Apprentice Drafter	Technical Diploma (LCTCS)* AutoDesk Inventor Certified User
AWS Welding 1G	Autodesk Certified User AutoCAD	Electrical Training ALLIANCE Interim Credential (etA): Levels 1-5
<b><u>Maritime Safety Credentials Suite:</u></b> Personal Safety/Social Responsibilities, Basic Water Survival, Basic Firefighting AND Basic First Aid/CPR AED	<b><u>Carpenter's International Training Fund (CITF):</u></b> • Millwright • Welding	<b><u>NCCER Level 2 or above</u></b> • Electrical • Instrumentation • Industrial Maintenance Mechanic • Mechanical Insulating • Millwright • Mobile Crane Operations • Pipefitting • Welding
<b><u>NCCER:</u></b> • Basic Rigger • Helper Modules • Industrial Coating & Lining Application Specialist	Certification for Manufacturing (C4M)	NIMS Machining Level 2 Certification
<b><u>OSHA:</u></b> • OSHA 10** • OSHA 30	<b><u>Electrical Training ALLIANCE Interim Credential (etA):</u></b> • Levels 1-3 • Level 4 • Level 5	
<b><u>PEC Basic Orientation:</u></b> • Safe Land • Safe Gulf	Geographic Information System - Entry Level Technician Certification	
	Louisiana Micro-Enterprise - Statewide	
	Certified Production Technician (CPT) AND Certified Production Technician Plus (CPT+)	
	<b><u>NCCER Level 1</u></b> • Electrical • Heavy Equipment Operations • Instrumentation • Industrial Maintenance Mechanic • Mechanical Insulating • Millwright • Mobile Crane Operations • Pipefitting • Welding	
	NIMS Machining Level 1 Certification	
	North America's Building Trades Unions Multi-Craft Core Curriculum (MC3)	
	Production Safety Systems (T-2) Basic	

\*Aligned to pathway. \*\*Credential is only available to students with disabilities as indicated by a current IEP.

Course Name	½ Credit Course Code	1 Credit Course Code	2 Credit Course Code	3 Credit Course Code
Advanced Electrical Electronics		310383		
Advanced Electricity/Electronics		110610		
Advanced Math - Functions and Statistics		160347		
Advanced Math - Pre-Calculus		160346		
Advanced Metal Technology		110240		
Advanced Technical Drafting		110590		
Aerospace Engineering		110830		
AG Leadership		010364		
Ag Power Equipment		010446		
Agriscience II		010302		
Agriscience III		010303		
Agriscience IV		010304		
Air Conditioning/Refrigeration I		310100	310102	310103
Air Conditioning/Refrigeration II		310105	310112	310113
Architectural Drafting		110580		
AWS Welding I		313100	313102	313103
AWS Welding II		313105	313106	313107
AWS Welding III		313108	313109	313110
AWS Welding IV		313111	313112	313113
Basic Electricity/Electronics		110600		
Basic Metal Technology I		110200		
Basic SMAW		313120		
Basic Technical Drafting		110560		
C4M: Level 1 – Introduction to Manufacturing		TBD	TBD	TBD
C4M: Level 2 – Manufacturing Team Skills, Quality, and Tools and Equipment		TBD	TBD	TBD
C4M: Level 3 – Automation in Manufacturing		TBD	TBD	TBD
C4M: Level 4 – Introduction to Fabrication		TBD	TBD	TBD
C4M in Agriscience I		010913	010914	010915
C4M in Agriscience II		010916	010917	010918
C4M in Agriscience III		010919	010920	010921
C4M in Agriscience IV		010922	010923	010924
CDF-Qualifying Pre-Apprenticeship II		080233	080234	
CDF-Qualifying Pre-Apprenticeship III		080236	080237	
CDF-Qualifying Pre-Apprenticeship IV		080239	080240	
Chemistry		150401		
Computer Technology Literacy		040220		
Construction Math Level 1		0110108		
Construction Math Level 2		0110109		
CMAD Drafting		110570	110571	110572
Computer Integrated Manufacturing		110850		
Data Manipulation and Analysis (LSU Partnership)		080532		
Design, Blueprint Reading And Codes		310622		
Drafting & Design Technology I		311300	311302	311303
Drafting & Design Technology II		311305	311312	311313
Electrician I		311400	311402	311403
Electrician II		311405	311412	311413
Engineering Design I		080110	080111	080112
Engineering Design II		080120	08021	080122
Engineering Design and Development		110860		
Engineering Design and Development: LSU Partnership		110861		

Course Name	½ Credit Course Code	1 Credit Course Code	2 Credit Course Code	3 Credit Course Code
Environmental Science		150310		
Environmental Science: AP Environmental Science		150311		
Environmental Science: DE - CEVS 1103 Environmental Science		150914		
First Robotics I		150740		
First Robotics II		150750		
First Robotics III		150760		
First Robotics IV		150770		
Fluid Mechanics		110331		
Fundamentals of Industrial Scaffolding		310631	310632	
G.M. Technician I		313200	313202	313203
Geometry		160323		
GIS Entry Level 1		010103		
GIS Entry Level 2		010104		
Grinder Assistant		110231		
Industrial And Plant Safety		311921		
Industrial Electronics I		311800	311802	311803
Industrial Electronics II		311805	311812	311813
Industrial Machines Shop I		311900	311902	311903
Industrial Machines Shop II		311905	311912	311913
Industrial Machines Shop III		311915	311916	311917
Industrial Machines Shop IV		311918	311919	311920
Introduction to Computational Thinking for STEM:LSU Partnership		061140		
Introduction to Engineering Design	110799	110800		
Introduction to Engineering Design: LSU Partnership		110801		
Introduction to Hazardous Materials		311922		
Introduction to Remote Controlled Vehicle Technologies		110795		
Introduction to Social Media		080818		
Maintenance Assistant		313836		
Manufacturing Process and Team Building		110256		
Manufacturing Technology		110250		
Manufacturing Tools and Equipment		110257		
Materials and Processes		110005		
NCCER Electrical I		110711 OR 313400	110712 OR 313402	110713 OR 313403
NCCER Electrical II		110716 OR 313405	110717 OR 313412	110718 OR 313413
NCCER Electrical III		313417	313418	313419
NCCER Electrical IV		313420	313421	313422
NCCER Electrical in Agriscience I		010701	010702	010703
NCCER Electrical in Agriscience II		010704	010705	010706
Introduction to Computational Thinking		061141		
NCCER Industrial Maintenance Electrical & Instrumentation I			313730	
NCCER Industrial Maintenance Level II		313729		
NCCER Instrumentation Control Mechanic I		110721 OR 313500	110722 OR 313502	110723 OR 303503
NCCER Instrumentation Control Mechanic II		110726 OR 313505	110727 OR 313512	110728 OR 313513
NCCER Instrumentation Control Mechanic III		313517		
NCCER Instrumentation IV		313520		
NCCER Insulating I		313829	313830	
NCCER Millwright I		313714	313740	313741
NCCER Millwright II		313715	313742	313743
NCCER Millwright III		313716	313744	313745
NCCER Millwright IV		313717	313746	313747

Course Name	½ Credit Course Code	1 Credit Course Code	2 Credit Course Code	3 Credit Course Code
NCCER Pipefitter I		110731 OR 313600	110732 OR 313602	110733 OR 313603
NCCER Pipefitter II		110736 OR 313605	110737 OR 313612	110738 OR 313613
NCCER Pipefitter III		313617	313616	
NCCER Pipefitter IV		313620	313619	
NCCER Pipefitting in Agriscience I		010801	010802	010803
NCCER Rigging I		313731	313732	313733
NCCER Rigging II		313734	313735	313736
NCCER Rigging III		313737	313738	313739
NCCER Scaffolding		321000	321001	321002
NCCER Pipefitting in Agriscience II		010804	010805	010806
NCCER Welding in Agriscience I		010901	010902	010903
NCCER Welding in Agriscience II		010904	010905	010906
NCCER Welding Technology I		110741 OR 313700	110742 OR 313702	110743 OR 313703
NCCER Welding Technology II		110746 OR 313705	110747 OR 313712	110748 OR 313713
NCCER Welding Technology III		313621	313622	313623
NCCER Welding Technology IV		313624	313625	313626
Oil and Gas Production Operations		110955		
Physics I		150000		
PLTW Engineering Design and Development		110862		
PLTW Introduction to Engineering Design		110802		
PLTW Principles of Engineering		080109		
Principles of Engineering		110810	110811	
Principles of Engineering: LSU Partnership		110864		
Process Instrumentation I		110915		
Process Instrumentation II		110916		
Process Technician I		110911	110913	110914
Process Technician II		110912	110917	110918
Process Technician III		110919	110920	110921
Process Technology I: Equipment		110922		
Process Technology II: Unit Systems		110923		
Process Technology III: Operations		110924		
Quality Controls		313727		
Robotics Beginner		150723		
Robotics: Advanced		150730	150731	
Robotics: Intermediate		150729		
Robotics (LSU Partnership)		150780		
Sheet Metal		312700	312702	312703
SMAW Pipe 5G		313123		
SMAW Pipe 6G		313124		
T2 Safety Systems For Oil and Gas Production		110956		
Welding Technology		110230		

## Jump Start 2.0 Universal Courses

*All courses on this list can be applied to any of the Jump Start 2.0 Pathways to meet the 9-credit requirement\**

Safety Courses	
Course Code	Course Name
311923	Workplace Safety
040218 or 040217	Cyber Society (NICERC Partnership) or Cybersecurity (LSU Partnership)
090711	Emergency Medical Responder
311720 or 080230	NCCER Core or Pre-Apprenticeship (etA, CITF, or NABTU)
080205 or 080224	Virtual Workplace Experience I (1 credit or 2 credit)
080207 or 080225	Virtual Workplace Experience II (1 credit or 2 credit)

Entrepreneurship Courses	
Course Code	Course Name
041038 or 040301 or 040306	Entrepreneurship or Principles of Business
041041	Entrepreneurship II (Advanced Micro Enterprise Credential)
220507 or 220506 or 040303	Law Studies or Business Law

Computer Literacy Courses	
Course Code	Course Name
040401	Introduction to Business Computer Applications
040400 or 061102	Business Computer Applications or Computer Science
080021	Digital Image and Motion Graphics (LSU Partnership)

Financial Awareness Courses	
Course Code	Course Name
160345 or 041022	Financial Literacy ** or Personal Finance
040101 or 165010	Accounting I or Technical Math

Workplace Communication Courses	
Course Code	Course Name
051101	Speech I (Business Communication)
041001	Customer Service
120350	Technical Writing **
	Foreign Language 1
	Foreign Language 2 (same language)

## Jump Start 2.0 Universal Courses

*All courses on this list can be applied to any of the Jump Start 2.0 Pathways to meet the 9-credit requirement\**

Work-Based Learning Courses	
Course Code	Course Name
080202 or 080200	CDF-Qualifying CTE Internship I (1 credit or 2 credit)
080201 or 080203	CDF-Qualifying CTE Internship II (1 credit or 2 credit)
042030	Jobs for America's Graduates 3
042040	Jobs for America's Graduates 4
040205	Cooperative Office Education
041010	Cooperative Marketing Education
080100	STAR I

*Students on Jump Start pathways must take at least 1 Career Readiness Course*

Basic Career Readiness Courses	
Course Code	Course Name
080411	Quest for Success
010301	Agriscience I
042010	Jobs for America's Graduates I
090029 or 090930	Introduction to Health Occupations
110010	General Technology Education (Introduction to Skilled Crafts)
061139	Introduction to STEM Pathways and Careers (LSU Partnership)

Advanced Career Readiness Courses	
Course Code	Course Name
080399	Propel I
080398	OneGoal I
080407	Career Success Skills (LCTCS Partnership)
TBD	Biodefense in the Workforce
042020	Jobs for America's Graduates 2
170003	ROTC III
170004	ROTC IV

\* Universal Courses do not apply to K16 pathways unless specifically identified in the pathway document

\*\*Cannot be used for both Math or English credit and Jump Start elective credit