



# Vinton High School

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COURSE CATALOG

2023-2024

GRADES | 9-12<sup>TH</sup>

## Table Of Contents

### Louisiana Diploma Pathways

|                                    |   |
|------------------------------------|---|
| TOPS University v. Jump Start_____ | 2 |
| Diploma Pathway Breakdown_____     | 3 |
| CPSB Honors Graduate Policy_____   | 4 |
| Example Grade Level Schedules_____ | 5 |

### Course Descriptions

|  |    |
|--|----|
| VHS Course Descriptions_____                 | 6  |
| Virtual Instruction Course Descriptions_____ | 11 |
| Dual Enrollment Course Descriptions_____     | 13 |
| Off Campus Course Descriptions_____          | 16 |

### Jump Start 2.0 Pathway Briefs

|   |    |
|---|----|
| Agriculture, Food and Natural Resources_____      | 18 |
| Architecture and Construction_____                | 20 |
| Arts, AV Technology, and Communication_____       | 22 |
| Business Management_____                          | 24 |
| Health Science_____                               | 26 |
| Hospitality Tourism_____                          | 28 |
| Information Technology_____                       | 30 |
| Law, Public Safety, Corrections and Security_____ | 32 |
| Manufacturing_____                                | 34 |
| Transportation, Distribution and Logistics_____   | 36 |
| Biomedical STEM Pathway Brief_____                | 38 |
| Pre-Engineering STEM Pathway Brief_____           | 39 |

## Louisiana DIPLOMA PATHWAY

By the end of 10<sup>th</sup> grade, **all students** will decide whether to pursue a **TOPS University** or **TOPS Tech Jump Start** pathway for a **Louisiana Diploma**. A decision can be made before the end of the 10<sup>th</sup> grade year.

### A Quick Look at Pathways to a Louisiana Diploma

| TOPS University  | TOPS Tech Jump Start  |
|--|---|
| <ul style="list-style-type: none"> <li>○ Upon graduation, students will receive a Louisiana Diploma</li> <li>○ Students may be eligible to enroll in a <b>Louisiana four-year public college or university</b>.</li> <li>○ Students may be eligible for a <b>TOPS scholarship</b> if they meet the requirements for GPA, ACT, and other requirements.</li> <li>○ Students pursuing the University pathway can take Jump Start electives.</li> <li>○ Students have the option to change to the TOPS Jump Start curriculum. This change may affect the time for a student's graduation.</li> </ul> | <ul style="list-style-type: none"> <li>○ Upon graduation, students will receive a Louisiana Diploma</li> <li>○ Students may be eligible to enroll in a <b>Louisiana community or technical college</b> and may be eligible to enter a 4 year college or university after earning community college credit or associate's degree.</li> <li>○ Students may be eligible for a <b>TOPS Tech scholarship</b> if they meet the requirements for GPA, ACT, and other requirements</li> <li>○ Students are required to earn industry-valued credentials to graduate. Jump Start courses are career building and offer workplace experiences.</li> <li>○ Students have the option to change to the TOPS University curriculum. This change may affect the time it takes for a student to complete requirements for graduation.</li> <li>○ Every Jump Start graduation pathway can be adapted for students with disabilities who meet Act 833 eligibility criteria</li> </ul> |

By the end of 10<sup>th</sup> grade, **all students** will decide whether to pursue a **TOPS University** or **TOPS Tech Jump Start** pathway for a **Louisiana diploma**. A decision **can be made before** the end of the 10<sup>th</sup> grade year.

The Louisiana **TOPS University** pathway prepares students for entrance to a four-year Louisiana state university or for a career. Students may be eligible for a TOPS scholarship if they meet additional requirements including GPA and ACT.

The **TOPS Tech Jump Start** pathway helps prepare students for a Louisiana community college, technical school, military, or for a career by requiring them to earn industry-valued credentials to graduate. Jump Start courses are career building and offer workplace experiences. Students may be eligible for a TOPS Tech scholarship if they meet additional requirements including GPA and ACT or WorkKeys.

**All** high school students can take classes offered through Jump Start including students who are not pursuing the Jump Start pathway.

Students have the option to change pathways. This change may affect the time it takes for a student to complete requirements for graduation.

Every Jump Start graduation pathway can be adapted for students with disabilities who meet **Act 833** eligibility criteria (IEP teams with questions please contact [JumpStart@la.gov](mailto:JumpStart@la.gov))

### TOPS University Pathway Breakdown

| Subject              | TOPS Classes  |
|----------------------|---|
| English              | <b>4 Credits</b><br>- English I<br>- English II<br>- English III <b>OR</b> English Dual Enrollment<br>- English IV <b>OR</b> English Dual Enrollment  |
| Math                 | <b>4 Credits</b><br>- Algebra I<br>- Geometry<br>- Algebra II<br>- Algebra III <b>OR</b> Statistical Reasoning<br><b>OR</b> Math Dual Enrollment  |
| Science              | <b>2 Credit</b><br>- Biology<br>- Chemistry<br><br><b>2 Credits (Any)</b><br>- Environmental Science<br>- Physical Science<br>- Physics<br>- Human Anatomy and Physiology<br>- Agriscience II (this can count as a Science or an Elective but not both) |
| Social Studies       | <b>4 Credits</b><br>- Civics<br>- US History<br>- World Geography <b>OR</b> World History<br><b>OR</b> African American History <b>OR</b> Intro. to Psyc <b>OR</b> AP Human Geo.  |
| P.E.                 | <b>1 ½ Credit</b><br>- PE I<br>- PE II (.5)   |
| Health               | <b>½ Credit</b><br>- Health (.5)  |
| Foreign Language     | <b>2 Credits</b><br>- Spanish I<br>- Spanish II   |
| Required Elective    | <b>1 Credit</b><br>- Fine Arts Survey<br>Or<br>- Advanced Band<br>Or<br>- Art/ Theatre/ Dance   |
| Optional Electives   | <b>3 Credits</b><br>(IBCA, BCA, AG I/II/III, AG Leadership, Speech, Food and Nutrition, etc.)   |
| <b>Total Credits</b> | <b>24</b>   |

### Jump Start Pathways Breakdown

| Subject                  | Jump Start Classes   |
|--------------------------|--|
| English                  | <b>2 Credits</b><br>- English I<br>- English II<br><br><b>2 Credits</b><br>- Business English<br><b>OR</b> English III <b>OR</b> English IV            |
| Math                     | <b>2 Credit</b><br>- Algebra I<br>- Geometry<br><br><b>2 Credits</b><br>- Math Essentials <b>OR</b> Financial Literacy <b>OR</b> Business Math         |
| Science                  | <b>1 Credit</b><br>- Biology<br><br><b>1 Credit</b><br>- Physical Science <b>OR</b> Chemistry <b>OR</b> Environmental Science <b>OR</b> Agriscience II |
| Social Studies           | <b>2 Credits</b><br>- Civics<br>- US History   |
| P.E.                     | <b>1 ½ Credits</b><br>- PE I<br>- PE II (.5)   |
| Health                   | <b>½ Credit</b><br>- Health (.5)   |
| Career Readiness Course  | <b>1 Credit</b><br>- Agriscience I <b>OR</b> Quest for Success   |
| Credential Course(s)     | Check State Credential on vocational specific page   |
| Pathway-Specific Courses | <b>8 Credits</b><br>- Universal Course List/Pathway-Specific Course on vocational specific page  |
| <b>Total Credits</b>     | <b>23</b>  |

### LEAP 2025 Test

|                           |   |
|---------------------------|---|
| English                   | - English I <b>OR</b> English II                              |
| Math                      | - Algebra I <b>OR</b> Geometry                                |
| Science or Social Studies | - Biology <b>OR</b> US History/Civics (Civics starting 24-25) |

Regardless of diploma path, students must pass the LEAP tests in the following categories:

# Honor Graduate Policy

The Honors GPA calculation is based on the 5.0 GPA.

A. Honors GPA Positions

1. Summa Cum Laude 3.90-4.00+ G. P. A.
2. Magna Cum Laude 3.70-3.89 G. P. A.
3. Cum Laude 3.50-3.69 G. P. A.

B. Graduation Index Requirements

Students must earn at least 110 points in the graduation index/strength of diploma.

|     |  |
|-----|--|
| 160 | <b>HS Diploma plus Associate's Degree</b>  |
| 150 | <b>HS Diploma plus</b><br>(a) AP® score of 3 or higher, IB® Score of 4 or higher, or CLEP® score of 50 or higher <b>OR</b><br>(b) Advanced statewide Jump Start credential<br><i>Students achieving both (a) and (b) will generate 160 points.</i>   |
| 110 | <b>HS Diploma plus</b><br>(a) At least one passing course grade for TOPS core curriculum credit of the following type: AP®, college credit, dual enrollment, or IB® <b>OR</b><br>(b) Basic statewide Jump Start credential<br><i>Students achieving both (a) and (b) will generate 115 points.</i><br><i>Students must take the AP®/IB® exam and pass the course to earn 110 points.</i> |
| 100 | <b>Four-year graduate</b> (includes Career Diploma student with a regional Jump Start credential)  |

### Example Grade Level Schedules

\*The following are schedules based on the recommended classes for specific grade levels. All scheduling is done on a student-by-student need basis.

| 9 <sup>th</sup> Grade         | 10 <sup>th</sup> Grade |
|-------------------------------|------------------------|
| Business English or English I | English I/English II   |
| Math Essentials or Algebra I  | Algebra I/Geometry     |
| Civics                        | World Geography        |
| Physical Science              | Biology                |
| P.E. / Health                 | P.E./Health            |
| Elective                      | Foreign Language       |
| Elective                      | Elective               |

| 11 <sup>th</sup> Grade (TOPS University) | 11 <sup>th</sup> Grade (Jump Start) |
|--|-------------------------------------|
| English III                              | English II/English III              |
| Algebra II/Algebra III                   | Business Math or Financial Lit      |
| U.S. History                             | U.S. History                        |
| Chemistry                                | Career Readiness Course             |
| Foreign Language                         | Pathway Specific Course             |
| Required Elective                        | Pathway Specific Course             |
| Elective                                 | Pathway Specific Course             |

| 12 <sup>th</sup> Grade (TOPS University) | 12 <sup>th</sup> Grade (Jump Start) |
|--|-------------------------------------|
| English IV/ DE English                   | English III/English IV              |
| Algebra III/ DE Math                     | Business Math or Financial Lit      |
| 4 <sup>th</sup> History                  | Pathway Specific Course             |
| 4 <sup>th</sup> Science                  | Pathway Specific Course             |
| *Optional DE classes                     | Pathway Specific Course             |

## VHS Course Descriptions

\*JS- Jump Start      \*TU- TOPS University

\*BM- Biomedical STEM      \*PE- Pre-Engineering STEM

**Advanced Band-** This course is for the Vinton High Band. Advanced topics in ensemble performance are covered. Recommended: 9-12<sup>th</sup> (TU, JS)

**Advanced Nutrition and Food-** This ½ year course gives students the opportunity to develop advanced food preparation skills while applying the nutrition information and food preparation skills learned in Nutrition and Foods. Prerequisite: Nutrition and Food. Recommended: 10-12<sup>th</sup> (TU, JS)

**Advanced Robotics** - This course will bring students into the world of competitive robotics. After completing Introduction to Robotics, students who are interested in joining a competition robotics team can join the advanced robotics course. This course will have a VEX and a FIRST Robotics (small pilot) option to allow schools the flexibility to meet the needs of their school. Curriculum for both robotics platforms will expose students to advanced building and programming techniques. Students are required to attend at least one weekend competition as part of the course. Prerequisite: Intro to Robotics. Recommended: 10-12<sup>th</sup> (PE)

**Agriscience I-** This course provides students with basic knowledge of agriculture and its history and the science applications in agriculture. This course includes units in animal science, soil science, plant science, agricultural mechanics, basic carpentry, food science technology, and agricultural leadership. Mathematics, science, English, biology, and human relations skills will be reinforced in the course. Recommended: 9-12<sup>th</sup> (TU, JS)

**Agriscience II-** This course provides students with basic knowledge of agriculture and science applications in agriculture. This course includes units in animal science, soil science, plant science, agricultural mechanics, and agricultural leadership. Mathematics, science, English, biology, and human relations skills will be reinforced in this course. Prerequisites: Agriscience I. Recommended: 10-12<sup>th</sup> (TU, JS)

**Agriscience III-** This course is an advanced study in Agriscience based upon the local agricultural workforce and economic needs of the community. The major areas of study should include personal development skills, animal systems, plant systems, environment issues, and mechanical skills. Mathematics, science, English, biology, and human relation skills will be reinforced in the course. Prerequisite: Agriscience II. Recommended: 11-12<sup>th</sup> (TU, JS)

**Ag Leadership-** This course will prepare individuals for agricultural careers, build awareness, and develop leadership for the food, fiber, and natural resources systems. The emphasis is on human relations, decision-making, promoting healthy lifestyles, maintaining a positive attitude, cooperative small and large group activities, and proper utilization of human resources. English, speaking skills, higher order thinking, and basic communication skills will be reinforced in this course. Prerequisite: Agriscience II. Recommended: 11-12<sup>th</sup>

**Algebra I-** This course is a traditional approach to the study of first year Algebra concepts. This Algebra I course builds on the study of functions and representations begun in the middle school grades. Students will learn to simplify and factor expressions, solve linear and quadratic equations, and systems of equations. Students will study families of functions and their graphs including linear, quadratic, polynomial, power, and exponential. Using these functions, students will model real-world situations using data and solve related problems. A scientific and/or graphing calculator will be used to supplement topics. This is a LEAP test course. Recommended: 9<sup>th</sup> (TU, JS)

**Algebra II-** This course emphasizes facility with algebraic expressions and forms, especially linear and quadratic forms, powers and roots, and functions and relations such as conics based on these concepts. Students study logarithmic, trigonometric, polynomial, and rational functions in addition to probability, data analysis, sequences, and series for modeling real-world situations. A graphing calculator is used throughout. Prerequisite: Geometry. Recommended: 10-11<sup>th</sup> (TU, JS)

**Algebra III-** This course is a senior level math class that prepares students for basic college math and ACT math skills. Prerequisite: Algebra II. Recommended: 11-12<sup>th</sup> (TU)

**AP Computer Science Applications-** This course introduces students to computer science through programming in Java (used for creating Minecraft, Spotify, and Netflix). Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language. Prerequisite: AP Computer Science Principles. Recommended: 11-12<sup>th</sup> (TU, JS)

**AP Computer Science Principles-** An entry-level course that introduces high school students to the foundations of modern computing. The course covers a broad range of foundational topics such as programming (Python or JavaScript), algorithms, creating apps, the Internet, big data, digital privacy and security, and the societal impacts of computing. Prerequisite: Algebra I. Recommended: 10-12<sup>th</sup> (TU)

**Applied Music-** This course is the Vinton High Color guard. Students develop performance and technical skills at their craft. Recommended: 9-12<sup>th</sup> (TU, JS)

**Baking Arts I-** This course is designed to educate students in the art of Baking and Pastry Arts. Students will learn the basics of mixing, shaping, and baking for preparing baked goods. Prerequisite: Food and Nutrition. Recommended: 11-12<sup>th</sup> (TU, JS)

**Biology-** This course gives the student an understanding of the principles and concepts of living things and their organization. This is a LEAP test course. Recommended: 10<sup>th</sup> (TU, JS)

**Business Computer Application-** This course is designed to provide students with basic computer application skills in word processing (Microsoft Word), spreadsheets (Microsoft Excel), and presentation graphics (Microsoft PowerPoint). Emphasis is placed on basic computer concepts both hardware and software. Student will have the opportunity to take Specialist Certification tests for the Microsoft Office programs. Students can receive Excel and IT Fundamentals certifications. Prerequisite: IBCA. Recommended: 10-12<sup>th</sup> (TU, JS)

**Business English-** This course concentrates on vocabulary, reading comprehension, and writing preparation to improve the fundamental academic knowledge a student has in reading, writing, and critical thinking. Recommended: 9<sup>th</sup> (JS)

**Business Math-** This course is designed for post-algebra students with emphasis on reviewing basic mathematical skills and consumer and career situations (income, banking, credit, etc.). Course also reviews basic geometry and algebra concepts. Recommended: 11-12<sup>th</sup> (JS)

**Chemistry-** This course covers basic concepts that help students understand how the universe works at the micro-level. Students will learn about chemical and physical properties, atomic structure, periodicity, bonding, chemical reactions, the Mole, stoichiometry, solutions, and kinetic molecular theory while learning the skills of science and engineering. Prerequisite: Biology. Recommended: 11<sup>th</sup> (TU, JS)



**Civics-** This course helps students explore the goal of a “more perfect union” and the role of the individual in the decisions of that union as they learn about the foundations, structure, and functions of the US government, politics and the role of the citizen, economic concepts, and financial literacy. Recommended: 9<sup>th</sup> (TU, JS)

**English I-** This course will have students examine the uses of language in works by authors such as Margaret Atwood, Louise Erdrich, William Shakespeare, Joshua Bennett, Toni Morrison, as well as selected nonfiction. Students will learn to gather evidence from texts and incorporate it into written and oral responses, write in argumentative, informational, narrative, and other modes, and research and present findings around a current issue. This is a LEAP test course. Recommended: 9<sup>th</sup> (TU, JS)

**English II-** This course will have students study the power of language to persuade in works such as Chinua Achebe’s *Things Fall Apart*, Sophocles’ *Antigone*, Susan B. Anthony’s “On Women’s Right to Vote,” and Kofi Annan’s Nobel Prize acceptance speech. Students will also examine how culture influences worldview, incorporate textual evidence into a written argument, write in argumentative, narrative, information, and other modes, and research a culture and present findings in a collaborative presentation using digital media. This is a LEAP test course. Prerequisite: English I. Recommended: 10<sup>th</sup> (TU, JS)

**English III-** This course will build around the theme “The American Dream.” Students will read foundational documents such as the Declaration of Independence and Lincoln’s Second Inaugural Address, essays by Henry David Thoreau and Ralph Waldo Emerson, and write an expository essay defining what it means to be an American along with a variety of modes and genres. Prerequisite: English II. Recommended: 11<sup>th</sup> (TU, JS)

**English IV-** This course builds around the theme “Perspective.” Students will read works such as James Baldwin’s “Stranger in the Village,” George Orwell’s “Shooting an Elephant,” Shakespeare’s *Othello*, and George Bernard Shaw’s *Pygmalion*, and apply multiple perspectives to complex texts. Students will also apply various types of literary criticism: archetypal, Marxist, feminist, historical, cultural, and reader response, and perform rigorous reading and writing that synthesizes learning. Prerequisite: English III. Recommended: 12<sup>th</sup> (TU, JS)

**Environmental Science-** This course includes the study of Earth’s spheres, ecological concepts, resources and resource management and environmental awareness and responsibilities with emphasis on student interpersonal skills and student performances. Recommended: 11-12<sup>th</sup> (TU, JS)

**Financial Literacy-** This course is designed to focus on mathematical concepts and applications needed for the design and management of personal and business finances. Financial Literacy serves as a foundation for ALL students to learn to make mathematically sound decisions in their roles as consumers, employees, and/or entrepreneurs. This course extends students’ knowledge of whole numbers, fractions, decimals, and percent as well as basic statistics and probability in the context of relevant real-life problem-solving situations. Recommended: 11-12<sup>th</sup> (TU, JS)

**Fine Arts Survey-** This course is an introduction of works of art in the visual arts, theater, music, and dance. This course, modeling itself after many humanities courses, covers major periods and movements, artists, composers, performers, and playwrights in Western Civilization. Recommended: 9-12<sup>th</sup> (TU, JS)

**Food and Nutrition-** The course addresses more concepts in nutrition and food preparation, with emphasis on safety and sanitation in the kitchen and includes the Serv Safe Food Handler Certificate. The second semester focuses on consumer skills as students prepare for their second certification in Customer Service which counts as an additional course credit once the class and certification have both been passed successfully. Prerequisite: Food Science. Recommended: 9-12<sup>th</sup> (TU, JS)

**FUEL-** This required course helps fill the gap students might have with reading comprehension and math skills along with ACT prep material. Students work in Achieve 3000 Literacy and Math, and ACT Mastery Prep. Recommended: 9-11<sup>th</sup>

**Food Science-** This course begins with a focus on personal development, relationships, and communications skills in all aspects of life. Next the course moves to getting ready to cook by practicing kitchen safety, learning tools and equipment, learning, and preparing foods. The course continues with an introduction to sewing tools and equipment, practicing basic sewing, and caring for clothes. The course ends with managing your career and understanding children and parents. Students will have an opportunity to earn the Customer Service credential for an additional credit.

Recommended: 9-12<sup>th</sup>

**Geometry-** This course covers the major topics of plane geometry such as parallelism, congruency, similarity, coordinates, transformations, measurement formulas, trigonometry, two- and three-dimensional figures, logic, and proof writing with an emphasis on insight rather than traditional rigorous proof. Applications of various geometric concepts are stressed. Algebraic and computational skills are reviewed and reinforced throughout the course. This is a LEAP test course. Prerequisite: Algebra I. Recommended: 10<sup>th</sup> (TU, JS)

**Health-** This course is designed to motivate and assist students to maintain and improve their health, prevent disease, and reduce health-related risk behaviors. Recommended: 9-12<sup>th</sup> (TU, JS)

**Human Anatomy and Physiology-** This course is an intensive study of human anatomy and physiology primarily geared for the student pursuing a medical career. Prerequisite: Chemistry. Recommended: 11-12<sup>th</sup> (TU)

**Introduction to Business Computer Applications-** This course is designed to apply keyboarding skills in formatting and producing letters, tables, reports, and outlines. Speed and accuracy are emphasized. Original composition at the keyboard and unarranged/rough draft materials are integrated throughout the semester. This course further develops workplace skills with emphasis given to production and quality of output. Upon successful completion of the course, students will have acquired marketable skills that will enable him/her to achieve in any workplace environment. Students can receive MOS Word and PowerPoint certification. Recommended: 9-12<sup>th</sup> (TU, JS)

**Introduction to Engineering -** This course introduces the profession, ethics, and diversity of the field of engineering to students in their freshman year of high school. The course will allow students to explore the 10 primary concentrations within engineering by listening to guest speaker lectures, working on an interactive project with a team, and presenting the results of their project to the class. The majors are: Biological Engineering, Civil Engineering, Environmental Engineering, Chemical Engineering, Computer Engineering/ Electrical Engineering, Computer Science, Construction Management, Industrial Engineering, Mechanical Engineering, and Petroleum Engineering. Specifically, this course will emphasize that the engineer is a team worker who needs strong skills in technical problem solving, engineering design, ethical decision making, and communicating to diverse audiences. Recommended: 9-12<sup>th</sup> (TU, JS, PE)

**Introduction to Robotics-** This beginning robotics course uses VEX EDR Robotics parts and VEXCode software to introduce the student to basic programming as well as problem solving strategies. This course will involve students in the development, building and programming of robots to accomplish various tasks. Students will work hands-on in teams to design, build, program and document their progress. Topics may include motor speed, gear ratios, torque, sensors, program loops, project documentation and decision-making. Recommended: 9-12<sup>th</sup> (TU, JS, PE)

**Math Essentials-** This course helps students transition from middle school math to Algebra I. Recommended: 9<sup>th</sup> (JS)

**Physical Education I-IV (PE)-** This course is designed to practice and develop skills in activities that will help students maintain fitness throughout their lives. Recommended: 9-12<sup>th</sup> (TU, JS)

**Physical Science-** This course is a study of energy and matter. It is designed as a preparatory course for high school chemistry with emphasis on laboratory work and abstract thinking skills. Recommended: 9<sup>th</sup> (TU, JS)

**Principals of Business-** This basic course introduces students to Economic and Business Issues in our Global Economy. The students will study true situations that show how businesses are formed, supply and demand, needs and wants, business plans, etc. Students will gain an understanding of business principles that they will use throughout their life. Included in the POB class is the Customer Service Credentialing Test. Any student passing the Customer Service Test will receive a course credit on transcript. Recommended: 11-12<sup>th</sup> (JS)

**Publications/Yearbook I & II-** This course the Vinton High School yearbook. Instruction in the principles of journalistic writing, photography, and design are taught. Recommended: 10-12<sup>th</sup> (TU)

**Quest for Success-** This course helps students progress from knowing and being aware of themselves and themselves in relation to others, to leading responsibly, and leveraging these skills in identifying personal and career goals and planning for the future. Informed by business and industry and other experts, the curriculum includes a variety of industry-aligned performance tasks that simulate the real world of work and support the development of a variety of in-demand, cross-sector, employability skills (e.g., collaboration, resource management, communication). Recommended: 9-12<sup>th</sup> (TU, JS)

**Spanish I-** This course introduces students to the four basic language skills: listening comprehension, speaking, reading, and writing, within a cultural context. Recommended: 10-12<sup>th</sup> (TU, JS)

**Spanish II-** This course builds on the fundamental language elements taught in Spanish I and continues to focus on the four language skills, which are reading, writing, speaking, and listening in the target language. Prerequisite: Spanish I. Recommended: 10-12<sup>th</sup> (TU, JS)

**Speech I-** This course covers the basics of communication skills, public speaking, theater, oral interpretation, and discussion. An objective of the course is to build the student's self-image and assist in his ability to communicate. Recommended: 9-12<sup>th</sup> (TU, JS)

**U.S. History-** United States History is a basic survey of United States History from post-Reconstruction America through the modern technological age of the 21<sup>st</sup> century. Students will study the impact of industrialization on America while discovering the advent of the resulting Progressive Movement. They will learn about the continued evolution of the United States as a world power from World War I through the Cold War Era. The course is challenging and requires students to take greater responsibility for their learning by participating in scholarly critical analysis, reflective thinking, and the expression and defense of ideas generated through the study of the content. Students will be taught critical thinking skills which will help them to become responsible and informed decision-makers by being afforded the opportunity to write critically with both free response essays and document-based questions. This is a LEAP test course. Recommended: 11<sup>th</sup> (TU, JS)

**Virtual Workplace Experience I/II-** This virtual course helps students master key workplace behaviors and communication skills via Nepris and project-based learning exercises. Recommended: 9-12<sup>th</sup> (JS)

**World Geography-** This course helps students explore geographic technologies, cultural geography, political geography, economic geography, and human-environment interaction to gain a deep understanding of the interconnectedness of people and place. Recommended: 10<sup>th</sup> (TU)

**World History-** This course helps students develop a deep understanding of the major historical events around the world from the Renaissance through present day. By analyzing significant historical periods, Students explain how society, the environment, the political and economic landscape, and historical events influence perspectives, values, traditions, and ideas. Recommended: 12<sup>th</sup> (TU)

## Virtual Instruction Program (VIP) Course Description

**VIP Ad. Chemistry**- This course is the study of the various phases of matter, their characteristics, and their atomic and molecular structure. Follows Modern States curriculum for CLEP voucher and test. This course is a science credit. Recommended: 11 (TU)

**VIP Af Am His (African American History)**– Course designed to help you develop an understanding of the causes and consequences of the African American experience and its influence on the world, the United States, and the African American community. This course is a science credit. Recommended: 11-12 (TU)

**VIP AP Hum Geo (Human Geography, Advanced Placement)** – Study of how humans interact with the Earth – economically, socially, politically, and environmentally using skills of a geographer. This course is a Social Studies credit. Recommended: 11-12 (TU)

**VIP AP Physics**- Emphasis is on vectors, work, energy, and physical states of matter, heat, and electricity. This course is designed for students who will pursue a degree in a scientific field. This is a standard physics class that is instructor lecture/demo based. Most of the presented material is algebra based. This course is a science credit. Recommended: 12 (TU)

**VIP Bio Sci (Intro to Biomedical Science)**- This course covers a large variety of fields in biomedicine. Topics include but are not limited to sports medicine, pharmacology, psychology, nutrition, veterinary medicine, bioinstrumentation, biomedical engineering, forensic anthropology, parasitology, and speech pathology. This course is an elective credit. Recommended: 11-12 (TU, JS)

**VIP Com An Phys (Comparative Anatomy/Physiology)**- This course engages students in rigorous study of the body's physiological systems and then compares these systems across many species in the animal kingdom (both vertebrates and invertebrates). Students will learn to read and interpret published scientific articles to examine evolutionary relationships between species, making connections that will be built on in later bioinformatics studies. This course is an elective credit. Recommended: 11-12 (TU, JS)

**VIP Comp Sci I (Computer Science I)** – Study of the foundational concepts of computer science. Challenges students to explore how computing and technology can impact the world by exploring networks, security, database systems, human computer interaction, vision and graphics, numerical analysis, programming languages, software engineering, bioinformatics, and theory of computing. This course is an elective credit. Recommended: 11-12 (TU)

**VIP Comp Th STM (Intro to Computational Thinking)**- This course introduces students to the basic ideas of computational thinking and artistic design. Students will use an open source, Web-based programming environment to create code for simple drawings, animations, and simulations. This course is an elective credit. Recommended: 11-12 (TU, JS)

**VIP Cyber (Cybersecurity)** - Designed to foster interest in Information Technology and networking careers. Through hands-on projects, students learn to install and administer operating systems. This course also covers connections of computing and society, including ethics, security, and privacy in on-line communication. This course is an elective credit. Recommended: 11-12 (TU)

**VIP Dance Theory** – Study of the history of dance and dance in popular culture. Develop skills for the observation of dance performances. This course is a Fine Arts credit. Recommended 11-12 (TU)

**VIP Forensics-** The study of forensics science as a tool for collecting evidence and crime scene analysis. Areas of study include physical evidence, properties of matter and the analysis of glass, drugs, forensic toxicology, the microscope, forensic serology, DNA, trace evidence, fire investigation, investigation of explosives, fingerprints, ballistics, forensic anthropology, casts and impressions, document examination and computer forensics. This course is an elective credit. Recommended: 11-12 (TU)

**VIP Stat Reason-** This course is designed on the fundamentals of collection, analysis, and interpretation of data. Emphasis is placed on the development of statistical thinking in everyday use. This course is a math credit. Recommended: 12 (TU, JS)

**VIP Sur Com Sci (Survey of Computer Science)-** This course introduces the basics of computing using fun and engaging activities instead of formally describing the concepts. To prepare students for the rigors of other courses in the STEM Pathways, this course focuses on developing students' interest in computing and identification with the computing professions. This course is an elective credit. Recommended: 11-12 (TU)

**VIP Theatre I -** Basic aspects, theatre arts, and vocabulary of theatre and dramatic arts, past and present; appreciation and understanding of diverse traditions. Includes opportunities for experiencing live or recorded theatrical performance. Full year course created for high school students. This course is a Fine Arts credit. Recommended: 11-12 (TU)

## Dual Enrollment Course Descriptions

(Please make sure you fulfill all dual enrollment requirements before scheduling a class)

\*SO- SOWELA      \*Mc- McNeese

\*V- Virtual      \*F- Face to face

**Ad. Math Pre-Calculus/Trigonometry (Math 1223)**- This course focuses on trigonometry, circular functions, and analytic geometry. Prerequisites: Earn a “C” or higher in Math 1100 or 23+ on Math ACT (SO, V) (Mc- Math 175)

**American History to 1877 (Hist 201)**- This course provides a survey of American history to 1877. (Mc, V)

**Calculus (Math 2113)**- This course expands on functions, limits, continuity, derivatives with applications, integration, and the Fundamental Theorem of Calculus. Prerequisites: Earn a “C” or higher in Math 1223. Spring only (SO, V) (BM, PE)

**College Algebra (Math 1100 or Math 113)**- This course covers fundamental algebraic operations, linear and quadratic equations and inequalities with applications, radical and rational equations, functions (exponential and logarithmic), graphing, zeros of polynomials, systems of equations and inequalities. (SO, V) (Mc, F)

**Criminal Justice I (CrMJ 1110)**- This course offers a review of the philosophy and history of the U.S. criminal justice system; a survey of agencies and processes involved in the administration of criminal justice: the legislature, the police, the prosecutor, the courts, and corrections; and the role of law enforcement agencies in today’s society. Fall only. (SO, V) (Mc- Cjus 111)

**Criminal Justice II Law (CrMJ 1332)**- Study of the substantive criminal law including definition of law, crime, defense, criminal responsibility, punishments, and court systems. Spring only. (SO, V)

**Elementary Probability and Statistical Inference (Math 231)**- This course offers a study of calculation of simple probability in discrete and continuous variable cases. Descriptive statistics, measures of central tendency, binomial, Poisson, and normal distributions. Testing hypotheses using normal deviate and t-statistics. Prerequisites: 170. (Mc, F)

**English Composition I (Eng 1010 or Engl 101)**- This course offers an introduction to academic writing, research, and writing across the curriculum. (SO, V) (Mc, F)

**English Composition II (Eng 1020 or Engl 102)**- Writing researched themes and exercises. Reinforcement of academic writing, research, and writing across the curriculum introduced in Eng 1010 or Engl 101. Prerequisite: Eng 1010 or Engl 101 (SO, V) (Mc, F)

**Environmental Science (EnSci 2000 or Ensc 101)**- This course examines the principles and concepts of environmental science with emphasis on basic ecology, natural communities, human populations, and resource conservation, agriculture, risk, and toxicology. (SO, V) (Mc, V)

**European History since 1648 (Hist 102)**- This course is a survey of European history from 1648 to the present. (Mc, V)

**European History to 1648 (Hist 101)**- This course is a survey of ancient, medieval, and early modern history. (Mc, V)

**General Biology I (Bio 1010)**- This course examines basic biological principles and concepts for non-science majors. (SO, V) (Mc- Biol 105) (BM, PE)

**General Biology II (Bio 1020)**- This course continues to examine basic biological principles and concepts for non-science majors. (SO, V) (Mc- Biol 106)

**Human Anatomy and Physiology I (Biol 225)**- This course examines the subjects of biochemistry, cells, tissues, plus structure and function of the integumentary, skeletal, muscular, and nervous systems and special senses. (Mc, F)

**Human Developmental Psychology (Psyc 2335)**- Physical, psychological, and social aspects of the individual from conception to death. Includes cultural, social, and hereditary factors that affect the individual's behavior throughout the life cycle. Fall and Spring. (So, V)

**Introduction to Biology I and Lab (Biol 101 & Lab)**- This course is intended for science majors. Basic biological principles and concepts with emphasis on the cellular and subcellular organization of living organisms, metabolism, and genetics. The lab offers laboratory studies of cellular and subcellular phenomena using microscopy, electrophoresis, and computerized data acquisition. (Mc, F)

**Introduction to Fiction (Eng 2410)**- A literature course that includes critical analysis and writing about literature. Prerequisite: Must have a "C" or higher in English 1020 (SO, V)

**Introduction to Psychology (Psych 2010)**- An overview of psychology designed to familiarize students with the major theories and basic principles for studying and understanding human behavior. (SO, V) (Mc, V)

**Introduction to Theatre (Thea 1013)**- Basic aspects, theatre arts, and vocabulary of theatre and dramatic arts, past and present; appreciation and understanding of diverse traditions. Includes opportunities for experiencing live or recorded theatrical performance. This course counts a Fine Art credit. Fall only. (SO, V)

**Introduction to Poetry/Drama (Eng 2430)**- This course is a study of poetry and drama. Methods of literary analysis, thematic study, and critical approach. Prerequisite: Must earn a "C" or higher in English 1020 (Mc- Engl 204)

**Mythology and Folklore (Eng 2530)**- This course offers a study of legends growing out of the life and literature of ancient Greece and Rome. Prerequisites: Must earn a "C" or higher in Eng 1020 (SO, V) (Mc- Engl 221)

**Precalculus College Algebra (Math 170)**- This course covers topics from advanced algebra to include real number properties, solutions of equations and inequalities, relations, functions, graphs, polynomial and rational functions, exponential and logarithmic functions, complex numbers, systems of equations, and the theory of equations. Prerequisite: Math 113. (Mc, F)

**Probability and Statistics (Math 2100)**- This course offers a study of calculation of simple probability in discrete and continuous variable cases. Descriptive statistics, measures of central tendency, binomial, Poisson, and normal distributions. Testing hypotheses using normal deviate and t-statistics. Prerequisites: Earn a "C" or higher in Math 1100. (SO, V) (Mc- Stat 231)

**Public Speaking/Communications (Spch1200)**- Basic public speaking principles and skills. Provides experience preparing, organizing, and presenting each of the following types of speeches: personal, introductory, informative, demonstrative, persuasive, and testimonial. This course counts as a Fine Arts credit. (SO, V)

**Theatre/Acting (Thea 2103)**- Introduction to acting through improvisation, thought, emotion, intention, body awareness, and movement. Develops a firm foundation in basic acting techniques. This course counts as a Fine Arts credit. Spring only. (SO, V)

**Transitional College Algebra (Math 1115)**- This course is for senior students who have not obtained dual enrollment entrance requirements but have a 17-19 on the ACT Math sub score. It offers fundamentals of introductory algebra. Offered in the Fall only to Seniors (SO,V)

**Work Civilizations since 1500 (Hist 122)**- This course explores the history of major civilizations from 1500 to the present. (Mc, V)

**World Civilizations before 1500 (Hist 121)**- This course focuses on the origins and historical development of major civilizations to 1500. (Mc, V)



## Off-Campus Course Descriptions

\*We- Westlake T&I

\*Su-Sulphur

\*St- Starks

\*ABC- ABC Welding

**Automotive Technician I-** This course introduces the student to the field of automotive services and repair. The student will be introduced to the automotive industry shop safety, use of reference materials, use and care of hand and power tools, use of precision measuring instruments, vehicle lubrication and service, wheel and tire service, brake diagnosis service and repair, electrical and electrical systems and automotive fasteners and their use. Recommended: 11th (We)

**Automotive Technician II-** This course is an intermediate course continuing the Maintenance and Light Repair training program, including electrical and electronic systems, engine performance, engine repair, and climate control systems. Instructions conforms to the nationally recognized ASE standards. Prerequisite: Automotive Technician I. Recommended: 12th (We)

**Automotive Technician III-** This course will offer ASE and NATEF training in Heating and Air Conditioning systems and advanced engine performance training with the possibility of an internship in the automotive industry. Prerequisite: Automotive Technician II. Recommended: 12th (We)

**Carpentry I-** This basic course including shop safety, tool identification and use, introduction to careers in construction, materials, power tools and machines, foundations, framing, and completing the exterior. Recommended: 11th (We)

**Carpentry II-** This intermediate course continues the students from Carpentry I. Recommended: 12th (We)

**NCCER Core-** The NCCER Core Curriculum is a prerequisite to all other Level 1 craft curriculum. Its modules cover topics such as basic safety, communication skills and introduction to construction drawings. Completing this curriculum gives the trainee the basic skills needed to continue education in any craft area he or she chooses. Communication and critical-thinking skills will also be reinforced in this course. This course is a work-based learning course. Recommended: 11-12th (St, We)

**NCCER Electrical I-** This course provides an overview of the electrical trade and discusses the career paths available to electricians. It covers topics such as electrical safety, introduction to electrical circuits and the National Electrical Code, electrical theory, device boxes, hand bending, raceways and fittings, conductors and cables, electrical test equipment, basic electrical construction drawings and residential electrical services. Recommended: 11-12th (ABC)

**NCCER Electrical II-** This course prepares individuals to install, operate, maintain, and repair electrically energized systems in all phases of electrical wiring, direct current and alternating current motors, controls, grounding techniques, and electrical distribution panels. It includes instruction on blueprint and schematic reading and interpretation, code applications and requirements, diagnostic procedures, and use of test equipment. Recommended: 11-12th (ABC)

**NCCER Pipefitter-** Students will learn the types of work performed by a Pipefitter, responsibilities of a Pipefitter, career opportunities of a Pipefitter, and the safety principles associated with the trade. Students will be taught to use both hand and power tools used in Pipefitting and how to select and maintain them. Oxyfuel cutting and the safety procedures, including the use of motorized equipment used to conduct this type of work will be reinforced during this first semester course. Ladder and scaffold safety, selection, construction, and the hazards associated with them are learned. Recommended: 11-12th (We)

**NCCER Welding Technology I-** This basic course following NCCER and AWS-Sense Industry Base Craft Training. Course includes basic safety, introduction to construction math, hand tools, blueprints, and rigging; welding safety; oxyfuel cutting; SMAW equipment set-up; SMAW beads and fillet welds. Upon completion of module, students may be eligible for Industry Based Certification. Recommended: 11th (St, We)

**NCCER Welding Technology II-** This intermediate course continuing with NCCER and AWS-Sense Industry Base Craft Training. Course includes welding safety; oxyfuel cutting; plasma arc cutting; base metal preparation; weld quality and codes; SMAW equipment and setup; metal arc electrodes; SMAW beads and fillet welds; and open V-Groove welds. Prerequisite: NCCER Welding Technology I. Recommended: 12th (St, We)

**ProStart I-** This course is the first 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. All students must take the national certification exam. Prerequisite: Nutrition and Food; Ad. Nutrition and Food. Recommended: 11-12th (Su)

**ProStart II-** Year two of the ProStart program prepares students for careers in the restaurant/food service industry. Topics covered include career preparation and development, the history and art of food service, the lodging industry, marketing, and menu development, purchasing and inventory control, standard accounting practices, tourism, and communication with customers. All students will take the national certification exam. Prerequisite: Earn a "C" or better in ProStart I. Recommended: 12th (Su)

**Sports Medicine-** This course is designed to provide an overview of the field of sports medicine as well as expose students to fundamental skills involved in sports medicine healthcare setting. Students will learn about the study of medicine and how the field of sports medicine is unique in its focus and delivery of healthcare. Prerequisite: Biology. Student will work on EKG Technician certification. Recommended: 10-12th (Su)

**Television Production I-** This course prepares students for careers in broadcast journalism, video production, and television broadcasting. Students will learn how to write, shoot, and edit news stories, interview, and other news content; produce, direct, and anchor newscasts; operate TV studio equipment for CPSB-TV, a weekly student-produced online broadcast. Students also have opportunities to produce commercials, public service announcements and independent video projects. Recommended: 11-12th (Su)

**Television Production II-** This course provides an advanced training in the production of videos and programs for broadcasting. This course will expand on the skills and knowledge gained in Television Production I. These students have access to Final Cut Pro, Avid, After Effects CS6, and other video production and editing software. Prerequisite: Television Production I. Recommended: 11-12th (Su)



## 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   | ESRI User Industry Based Certification  | Forestry (Louisiana Forestry Association)  |
| Agricultural Career Development and Agricultural Leadership Development | FAA Part 107: Small Unmanned Aircraft Operations  | Water Production Operator I, Water Treatment Operator I, AND Water Distribution Operator I |
|   | Four Stroke Engine Technician   |  |
|   | Louisiana Agritechnology (Louisiana Farm Bureau Federation)   |  |
|   | <b><u>Louisiana Department of Health, Office of Public Health-Engineering Services:</u></b><br>• Water Production Operator I • Water Treatment Operator I • Water Distribution Operator I |  |

*\*Aligned to pathway.*

# Agriculture, Food & Natural Resources

**Available at:** DeQuincy High, Iowa High, Sam Houston High, Vinton High, College Street Vocational Center, Starks High, Sulphur High and Westlake

## Advanced Credential 150 SPS Points

*Rigor Level 3*

- Technical Diploma (LCTCS)

## Basic State Credential 110 SPS Points

*Rigor Level 3*

- Certificate of Technical Studies (LCTCS)
- Four Stroke Engine Technician
- Louisiana Agritechnology

## Regional Credential 100 SPS Points

*Rigor Level 2*

- Career and Technical Certificate (LCTCS)
- Agricultural Career Development and Agricultural Leadership Development

### CAREER READINESS

- Agriscience I (010301)
- JAG I & II (042010 & 042020)\*\*/\*\*\*\*
- Quest for Success (080411)
- ROTC III & ROTC IV (170003 & 170004)

### UNIVERSAL COURSES

- Accounting I (040101)
- Business Computer Applications (040400)
- CDF Qualifying CTE Internship I (1 credit - 080202)
- CDF Qualifying CTE Internship I (2 credits - 080200)
- CDF Qualifying CTE Internship II (1 credit - 080203)
- CDF Qualifying CTE Internship II (2 credits - 080201)
- Customer Service (041001)
- Emergency Medical Responder (090711)\*\*
- Financial Literacy (160345)\*
- Foreign Language I
- Foreign Language II
- Introduction to Business Computer Applications (040401)
- Law Studies (220506)\*\*\*
- NCCER Core (311720)\*\*/\*\*\*\*
- Personal Finance (041022)
- Principles of Business (040306)
- Speech I (051101)
- Technical Writing (120350)\*
- Virtual Workplace Experience I (080205)\*\*
- Virtual Workplace Experience II (080207)\*\*

### PATHWAY CREDITS

- Advanced Nutrition and Food (100301)
- Ag Leadership (010364)
- Agriscience I (010301)
- Agriscience II (010302)
- Agriscience III (010303)
- Agriscience IV (010304)
- AP Human Geography (220310)
- Business Math (040307)\*
- Chemistry (150401)
- Computer Technology Literacy (040220)
- Digital Media I (080800)\*\*
- Environmental Science (150310)
- Food Science (155040)
- NCCER Core (311720)\*\*/\*\*\*\*
- NCCER Welding Technology I (2 credits - 313702)\*\*/\*\*\*\*
- NCCER Welding Technology II (2 credits - 313712)\*\*/\*\*\*\*
- Nutrition and Food (100300)
- Outdoor Power Equipment Technician I(2 credits - 312302)\*\*/\*\*\*\*
- Outdoor Power Equipment Technician II(2 credits - 312312)\*\*/\*\*\*\*
- Outdoor Power Equipment Technician III(2 credits - 312321)\*\*/\*\*\*\*

\*Courses taken for core requirements cannot be used towards the 9 credits required for a pathway

\*\*Course offered at College Street or Westlake T&I

\*\*\*Course offered at Washington Marion

\*\*\*\*Course offered at Sulphur High

Page 03

February 12, 2021

## 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) Career Connections: Pre-Apprentice Core Skills     | ABC Pelican Level 1   | ABC Pelican Level 2  |
| <b><u>NCCER:</u></b><br>• Construction Craft Laborer • Rigger<br>• Scaffolding • Helper Modules | ADDA Certified Architectural Apprentice Drafter   | Autodesk Inventor Certified User   |
| <b><u>OSHA:</u></b><br>• OSHA 10 • OSHA 30  | Autodesk AutoCAD Certified User   | Carpenter International Training Fund (CITF) Career Connections: Level 2 OR 3  |
| AutoDesk Revit  | Basic Access Industrial Scaffolding   | <b><u>NCCER Level 2 or above:</u></b><br>• Carpentry • Electrical • Heavy Equipment Operations • HVAC • Insulating • Millwright<br>• Mobile Crane Operator • Pipefitting<br>• Plumbing • Welding |
|   | Carpenter International Training Fund (CITF) Career Connections: Level 1  | Electrical Training ALLIANCE Interim Credential (etA): Levels 1-5  |
|   | <b><u>Electrical Training ALLIANCE Interim Credential (etA):</u></b><br>• Levels 1-3 • Level 4 • Level 5  | EPA Section 608 Certification AND Air Conditioning, Electrical, OR Heat Employment Ready   |
|   | <b><u>NCCER:</u></b><br>Carpentry • Construction Technology • Electrical<br>• Heavy Equipment Operations • HVAC<br>• Insulating • Millwright • Mobile Crane Operator • Pipefitting • Plumbing • Welding |  |

*\*Aligned to pathway.*

# Architecture and Construction

Available at: DeQuincy High, College Street Vocational Center, Sulphur High, Starks High and Westlake T&I

## Advanced Credential 150 SPS Points

Rigor Level 3

- Technical Diploma (LCTCS)
- NCCER Level 2; Carpentry, Electrical, HVAC, Pipefitting, Plumbing, Welding

## Basic State Credential 110 SPS Points

Rigor Level 3

- Certificate of Technical Studies (LCTCS)
- Autodesk AutoCAD Certified User
- NCCER Level I; Carpentry, Electrical, HVAC, Pipefitting, Plumbing, Welding

## Regional Credential 100 SPS Points

Rigor Level 2

- Career and Technical Certificate (LCTCS)
- Approved Helper Modules of NCCER credentials.
- OSHA 10

## CAREER READINESS

- Agriscience I (010301)
- JAG I & II (042010 & 042020)\*\*/\*\*\*\*
- Quest for Success (080411)
- ROTC III & ROTC IV (170003 & 170004)

## UNIVERSAL COURSES

- Accounting I (040101)
- Business Computer Applications (040400)
- CDF Qualifying CTE Internship I (1 credit - 080202)
- CDF Qualifying CTE Internship I (2 credits - 080200)
- CDF Qualifying CTE Internship II (1 credit - 080203)
- CDF Qualifying CTE Internship II (2 credits - 080201)
- Customer Service (041001)
- Emergency Medical Responder (090711)\*\*
- Financial Literacy (160345)\*
- Foreign Language I
- Foreign Language II
- Introduction to Business Computer Applications (040401)
- Law Studies (220506)\*\*\*
- NCCER Core (311720)\*\*/\*\*\*\*
- Personal Finance (041022)
- Principles of Business (040306)
- Speech I (051101)
- Technical Writing (120350)\*
- Virtual Workplace Experience I (080205)\*\*
- Virtual Workplace Experience II (080207)\*\*

## PATHWAY CREDITS

- Ag Leadership (010364)
- Agriscience II (010302)
- Agriscience III (010303)
- Agriscience IV (010304)
- Automotive Technician I (2 credits - 310312)\*\*
- Automotive Technician II (2 credits - 310322)\*\*
- Automotive Technician III (2 credits - 310332)\*\*
- Business Math (040307)\*
- Chemistry (150401)
- Computer Technology Literacy (040220)
- Digital Media (080800)\*\*
- Drafting & Design Technology I (2 credits - 311302)\*\*\*\*
- Drafting & Design Technology II (2 credits - 311312)\*\*\*\*
- Environmental Science (150310)
- Geometry (160323)
- HVAC I (2 credits - 310102)\*\*
- HVAC II (2 credits - 310112)\*\*
- NCCER Carpentry I (2 credits - 313302)\*\*
- NCCER Carpentry II (2 credits - 313312)\*\*
- NCCER Core (311720)\*\*/\*\*\*\*
- NCCER Electrical I (2 credits - 313402)\*\*
- NCCER Electrical II (2 credits - 313412)\*\*
- NCCER Pipefitter I (2 credits - 313602)\*\*
- NCCER Welding Technology I (2 credits - 313702)\*\*/\*\*\*\*
- NCCER Welding Technology II (2 credits - 313712)\*\*/\*\*\*\*

\*Courses taken for core requirements cannot be used towards the 9 credits required for a pathway

\*\*Course offered at College Street or Westlake T&I

\*\*\*Course offered at Washington Marion

\*\*\*\*Course offered at Sulphur High

Page 04

February 12, 2021





# 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><br>• Maya Certified User • 3ds Max Certified User | <b>Adobe Certified Associate:</b><br>• After Effects • Animate • Dreamweaver<br>• Flash • Illustrator • InDesign • Photoshop • Premier Pro | Adobe Certified Associate Visual Design Specialist  |
| Adobe Certified Associate Video Design Specialist                  | Autodesk AutoCAD Certified User  | <b>Adobe Certified Expert:</b><br>• Dreamweaver • Illustrator • InDesign<br>• Photoshop • Premier Pro |
|  | AVID ProTools User   | Autodesk Inventor Certified User  |
|  | <b>Certified Internet Web (CIW):</b><br>• 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  | Fundamentals of JavaScript, Functional Programming and Web Development, Lvl 2                         |

*\*Aligned to pathway.*

# Arts, A/V Technology & Communication

Available at: College Street Vocational Center and Sulphur High

**Advanced  
Credential**  
150 SPS Points  
Rigor Level 3

- Technical Diploma (LCTCS)
- Adobe Certified Associate Visual Design Specialist
- Adobe Certified Expert; Dreamweaver, Illustrator, InDesign, Photoshop, Premier Pro

**Basic State  
Credential**  
110 SPS Points  
Rigor Level 2

- Certificate of Technical Studies (LCTCS)
- Autodesk AutoCAD Certified User
- Adobe Certified Associate; After Effects, Animate, Dreamweaver, Flash, Illustrator, InDesign, Photoshop, Premier Pro

**Regional  
Credential**  
100 SPS Points  
Rigor Level 2

- Career and Technical Certificate (LCTCS)
- Adobe Certified Associate Video Design Specialist

## CAREER READINESS

- Agriscience I (010301)
- JAG I & II (042010 & 042020)\*\*
- Quest for Success (080411)
- ROTC III & ROTC IV (170003 & 170004)

## UNIVERSAL COURSES

- Accounting I (040101)
- Business Computer Applications (040400)
- CDF Qualifying CTE Internship I (1 credit - 080202)
- CDF Qualifying CTE Internship I (2 credits - 080200)
- CDF Qualifying CTE Internship II (1 credit - 080203)
- CDF Qualifying CTE Internship II (2 credits - 080201)
- Customer Service (041001)
- Emergency Medical Responder (090711)\*\*
- Financial Literacy (160345)\*
- Foreign Language I
- Foreign Language II
- Introduction to Business Computer Applications (040401)
- Law Studies (220506)\*\*\*
- NCCER Core (311720)\*\*/\*\*\*\*
- Personal Finance (041022)
- Principles of Business (040306)
- Speech I (051101)
- Technical Writing (120350)\*
- Virtual Workplace Experience I (080205)\*\*
- Virtual Workplace Experience II (080207)\*\*

## PATHWAY CREDITS

- Advanced Band (030302)
- Art I (030501)
- Art II (030502)
- Art III (030503)
- Art IV (030504)
- Beginning Band (030300)
- Beginning Choir (030310)
- Business Math (040307)\*
- Commercial Art I (2 credits - 310702)\*\*
- Commercial Art II (2 credits - 310712)\*\*
- Computer Service Technology I (2 credits - 310820)\*\*
- Computer Service Technology II (2 credits - 310822)\*\*
- Computer Tech Literacy (040220)
- Digital Media I (080800)\*\*
- Digital Media II (080805)\*\*
- Fine Arts Survey (030332)
- Geometry (160323)
- Photography I (312400)
- Photography II (312405)
- Speech II (051102)
- Speech III (051103)
- Speech IV (051104)
- Television Production I (2 credits - 312802)\*\*/\*\*\*\*
- Television Production II (2 credits - 312812)\*\*/\*\*\*\*
- Theatre I (030700)
- Theatre II (030721)
- Theatre III (030731)
- Theatre IV (030741)
- Web Design I (040211)\*\*
- Web Design II (040212)\*\*

\*Courses taken for core requirements cannot be used towards the 9 credits required for a pathway

\*\*Course offered at College Street or Westlake T&I

\*\*\*Course offered at Washington Marion

\*\*\*\*Course offered at Sulphur High

Page 05

February 12, 2021





## Pathway Brief

# 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

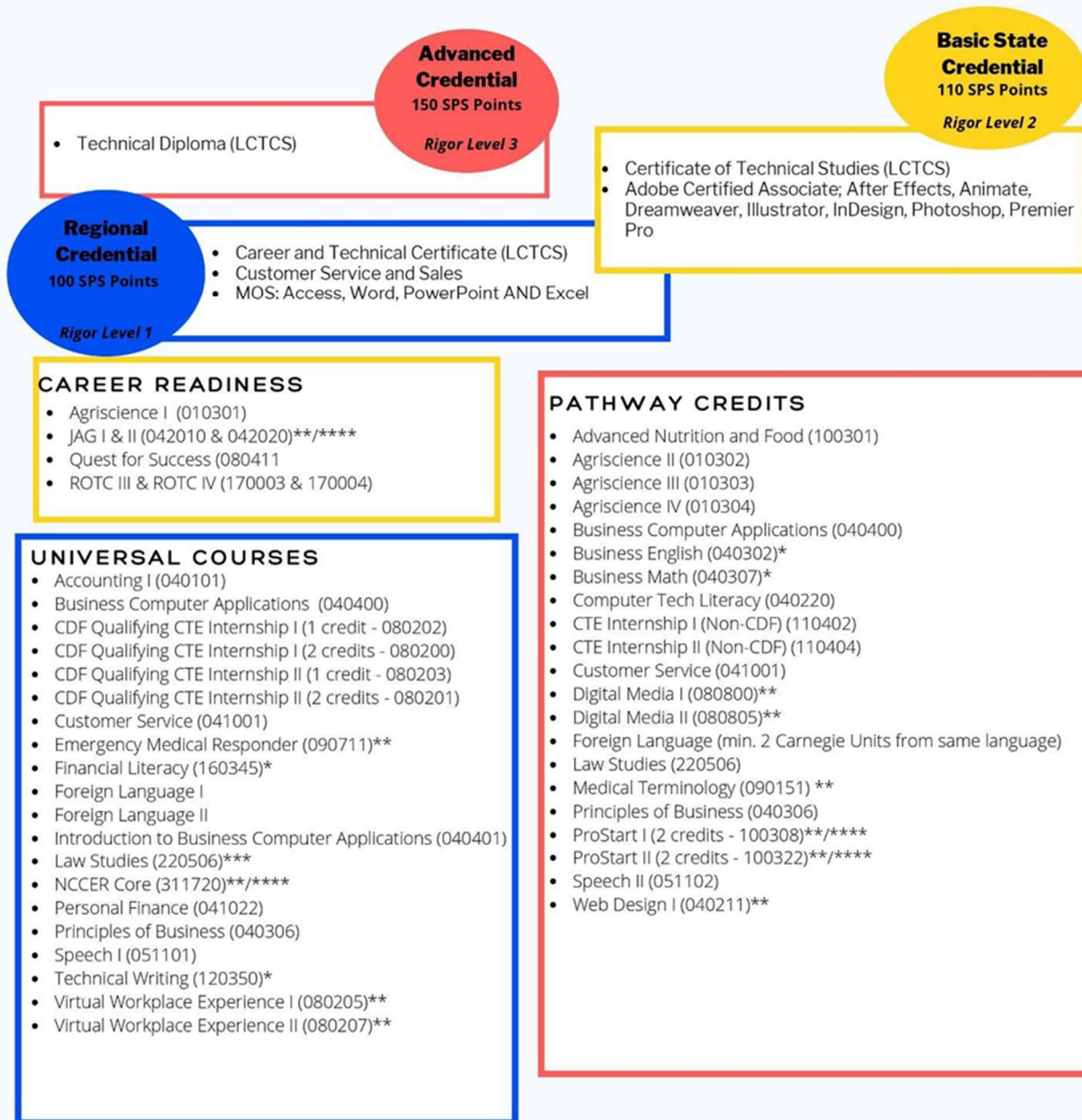
*In order to graduate, Jump Start students must earn at least one credential from the options below.*

| Regional (Emerging)  | Basic  | Advanced  |
|--|--|---|
| Career and Technical Certificate (LCTCS)*                                    | Certificate of Technical Studies (LCTCS)*  | Technical Diploma (LCTCS)*  |
| Customer Service and Sales   | <b>Adobe Certified Associate:</b><br>• After Effects • Animate • Dreamweaver<br>• Illustrator • InDesign • Photoshop • Premier Pro |   |
| Louisiana Micro-Enterprise - Regional  | CIW Internet Business Associate  | Fundamentals of JavaScript, Functional Programming and Web Development, Lvl 2 |
| <b>Microsoft Office Specialist:</b><br>• Access • Word, PowerPoint AND Excel | ESRI User Industry Based Certification   |   |
|  | Fundamentals of JavaScript, Functional Programming and Web Development, Lvl 1  |   |
|  | Louisiana Micro-Enterprise - Statewide   |   |

*\*Aligned to pathway.*

# Business Management

Available at: All High Schools



\*Courses taken for core requirements cannot be used towards the 9 credits required for a pathway

\*\*Course offered at College Street or Westlake T&I

\*\*\*Course offered at Washington Marion

\*\*\*\*Course offered at Sulphur High

Page 06

February 12, 2021

## 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)*                  |
| Certified Coding Associate (CCA®)             | Certified Nurse Aide   | Certified Clinical Medical Assistant (CCMA) |
| Certified EKG Technician                      | Dental Assistant - NOCTI   | Emergency Medical Technician (EMT)          |
| National Certified Insurance & Coding (NCICS) | Emergency Medical Responder (EMR)                                    | Expanded Duty Dental Assistant (EDDA)       |
| Phlebotomy Technician                         | Geographic Information System - Entry Level Technician Certification |   |
|   | Patient Care Technician/Assistant                                    |   |
|   | Pharmacy Technician Certification (ExCPT)                            |   |
|   | Pharmacist Technician Certification (PTCE)                           |   |

***\*Aligned to pathway.***

# Health Sciences

Available at: College Street Vocational Center, Sulphur High and Washington Marion,

## Advanced Credential 150 SPS Points

Rigor Level 3

- Technical Diploma (LCTCS)
- Emergency Medical Technician (EMT)

## Basic State Credential 110 SPS Points

Rigor Level 3

- Certificate of Technical Studies (LCTCS)
- Certified Nurse Aide
- Emergency Medical Responder (EMR)

## Regional Credential 100 SPS Points

Rigor Level 2

- Career and Technical Certificate (LCTCS)

## CAREER READINESS

- Agriscience I (010301)
- JAG I & II (042010 & 042020) \*\*/\*\*\*\*
- Quest for Success (080411)
- ROTC III & ROTC IV (170003 & 170004)

## UNIVERSAL COURSES

- Accounting I (040101)
- Business Computer Applications (040400)
- CDF Qualifying CTE Internship I (1 credit - 080202)
- CDF Qualifying CTE Internship I (2 credits - 080200)
- CDF Qualifying CTE Internship II (1 credit - 080203)
- CDF Qualifying CTE Internship II (2 credits - 080201)
- Customer Service (041001)
- Emergency Medical Responder (090711)\*\*
- Financial Literacy (160345)\*
- Foreign Language I
- Foreign Language II
- Introduction to Business Computer Applications (040401)
- Law Studies (220506)\*\*\*
- NCCER Core (311720)\*\*/\*\*\*\*
- Personal Finance (041022)
- Principles of Business (040306)
- Speech I (051101)
- Technical Writing (120350)\*
- Virtual Workplace Experience I (080205)\*\*
- Virtual Workplace Experience II (080207)\*\*

## PATHWAY CREDITS

- Advanced Nutrition and Food (100301)
- Allied Health Services I (090101) \*\*/\*\*\*\*
- Allied Health Service II (090104)\*\*/\*\*\*\*
- Biology II (150302)
- Biology II: AP Biology (150307)
- Business Math (040307)\*
- Chemistry (050401)
- Computer Tech Literacy (040220)
- Digital Media I (080800)\*\*
- Digital Media II (080805)\*\*
- Emergency Medical Technician Basic (2 credits - 090943) \*\*
- Environmental Science (150310)
- Family and Consumer Sciences I (100401)
- Food Science (100315)
- Foreign Language (min. 2 Carnegie Units from same language)
- Health Science I (090611) \*\*\*
- Health Science II (090621) \*\*\*
- Medical Terminology (090151) \*\*
- Nurse Assistant (2 credits - 090237)\*\*\*/\*\*\*\*
- Nutrition and Food (100300)
- Psychology (222001)
- Psychology (AP Psychology) (222004)
- Sports Medicine I (090723)\*\*/\*\*\*\*
- Sports Medicine II (090724)\*\*/\*\*\*\*
- Sports Medicine III (090722)\*\*/\*\*\*\*

\*Courses taken for core requirements cannot be used towards the 9 credits required for a pathway

\*\*Course offered at College Street or Westlake T&I

\*\*\*Course offered at Washington Marion

\*\*\*\*Course offered at Sulphur High

Page 07

February 12, 2021



## 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   | Certified Hospitality and Tourism Management AND Certified Guest Service Professional | ManageFirst Professional   |
| Certified Guest Service Professional                                   | ESRI User Industry Based Certification  |                            |
| Certified Hospitality and Tourism Management, Year II                  | Louisiana Micro-Enterprise - Statewide  |                            |
| Certified Restaurant Server  | ProStart National Certificate of Achievement AND ServSafe Food Protection Manager     |                            |
| Customer Service and Sales   |   |                            |
| ProStart National Certificate of Achievement AND ServSafe Food Handler |   |                            |
| ServSafe Food Handler  |   |                            |
| ServSafe Food Protection Manager                                       |   |                            |

*\*Aligned to pathway.*



# Hospitality & Tourism

Available at: All High Schools

## Advanced Credential 150 SPS Points

Rigor Level 3

- Technical Diploma (LCTCS)

## Basic State Credential 110 SPS Points

Rigor Level 3

- Certificate of Technical Studies (LCTCS)
- ProStart National Certificate of Achievement AND ServSafe Food Protection Manager

## Regional Credential 100 SPS Points

Rigor Level 2

- Career and Technical Certificate (LCTCS)
- Customer Service and Sales
- ProStart National Certificate of Achievement AND ServSafe Food Handler
- ServSafe Food Handler
- ServSafe Food Protection Manager

## CAREER READINESS

- Agriscience I (010301)
- JAG I & II (042010 & 042020)\*\*/\*\*\*\*
- Quest for Success (080411)
- ROTC III & ROTC IV (170003 & 170004)

## UNIVERSAL COURSES

- Accounting I (040101)
- Business Computer Applications (040400)
- CDF Qualifying CTE Internship I (1 credit - 080202)
- CDF Qualifying CTE Internship I (2 credits - 080200)
- CDF Qualifying CTE Internship II (1 credit - 080203)
- CDF Qualifying CTE Internship II (2 credits - 080201)
- Customer Service (041001)
- Emergency Medical Responder (090711)\*\*
- Financial Literacy (160345)\*
- Foreign Language I
- Foreign Language II
- Introduction to Business Computer Applications (040401)
- Law Studies (220506)\*\*\*
- NCCER Core (311720)\*\*/\*\*\*\*
- Personal Finance (041022)
- Principles of Business (040306)
- Speech I (051101)
- Technical Writing (120350)\*
- Virtual Workplace Experience I (080205)\*\*
- Virtual Workplace Experience II (080207)\*\*

## PATHWAY CREDITS

- Advanced Nutrition and Food (100301)
- Baking and Pastry Arts I (100331)
- Business Math (040307)\*
- Chemistry I (150401)
- Computer Tech Literacy (040220)
- Customer Service (041001)
- Digital Media I (080800)\*\*
- Digital Media II (080805)\*\*
- Environmental Science (150310)
- Family and Consumer Sciences I (100401)
- Family and Consumer Sciences II (100402)
- Food Science (100315)
- Foreign Language (min. 2 Carnegie Units from same language)
- Nutrition and Food (100300)
- Principles of Business (040306)
- ProStart I (2 credits - 100308)\*\*/\*\*\*\*
- ProStart II (2 credits - 100322)\*\*/\*\*\*\*
- Psychology (222001)
- Psychology AP (222004)
- Speech II (051102)
- Web Design I (040211)\*\*

\*Courses taken for core requirements cannot be used towards the 9 credits required for a pathway

\*\*Course offered at College Street or Westlake T&I

\*\*\*Course offered at Washington Marion

\*\*\*\*Course offered at Sulphur High

Page 08  
February 12, 2021

# 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><br>• After Effects • Animate • Dreamweaver<br>• 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><br>• Smart Home Professional • Network Cabling Specialist  | C-Tech Associates Broadband Professional   |
| RobotC  | <b>CIW:</b><br>• Internet Business Associate • Site Development Associate • Network Technology Associate<br>• E-Commerce Specialist • Web Design Specialist<br>• JavaScript Specialist 2.0 • Database Design Specialist • Perl Specialist • Web Security Associate • Web Security Specialist | <b>CIW:</b><br>• Web Foundations Associate • Web Design Professional • Web Development Professional<br>• 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><br>• Network+ • A+ • Security+   |
|   | Fundamentals of JavaScript, Functional Programming and Web Development, Lvl 1  | Oracle Certified Professional (OCP) Java Programmer II   |

*\*Aligned to pathway.*

# Information Technology

Available at: College Street Vocational Center and Westlake T&I

## Advanced Credential 150 SPS Points

Rigor Level 3

- Technical Diploma (LCTCS)
- Adobe Certified Expert - Dreamweaver

## Basic State Credential 110 SPS Points

Rigor Level 2

- Certificate of Technical Studies (LCTCS)
- Adobe Certified Associate; After Effects, Animate, Dreamweaver, Illustrator, InDesign, Photoshop, Premier Pro
- IT Fundamentals

## Regional Credential 100 SPS Points

Rigor Level 1

- Career and Technical Certificate (LCTCS)
- MOS Specialist: Access, Word, PowerPoint AND Excel

## CAREER READINESS

- Agriscience I (010301)
- JAG I & II (042010 & 042020) \*\*/\*\*\*\*
- Quest for Success (080411)
- ROTC III & ROTC IV (170003 & 170004)

## UNIVERSAL COURSES

- Accounting I (040101)
- Business Computer Applications (040400)
- CDF Qualifying CTE Internship I (1 credit - 080202)
- CDF Qualifying CTE Internship I (2 credits - 080200)
- CDF Qualifying CTE Internship II (1 credit - 080203)
- CDF Qualifying CTE Internship II (2 credits - 080201)
- Customer Service (041001)
- Emergency Medical Responder (090711)\*\*
- Financial Literacy (160345)\*
- Foreign Language I
- Foreign Language II
- Introduction to Business Computer Applications (040401)
- Law Studies (220506)\*\*\*
- NCCER Core (311720)\*\*/\*\*\*\*
- Personal Finance (041022)
- Principles of Business (040306)
- Speech I (051101)
- Technical Writing (120350)\*
- Virtual Workplace Experience I (080205)\*\*
- Virtual Workplace Experience II (080207)\*\*

## PATHWAY CREDITS

- Computer Service Technology I (2 credits - 310820)\*\*
- Computer Service Technology II (2 credits - 310822)\*\*
- Computer Technology Literacy (040220)
- Digital Media I (080800)\*\*
- Digital Media II (080805)\*\*
- Geometry (160323)
- Television Production I (2 credits - 312802)\*\*/\*\*\*\*
- Television Production II (2 credits - 312812)\*\*/\*\*\*\*
- Web Design I (040211)\*\*
- Web Design II (040212)\*\*

\*Courses taken for core requirements cannot be used towards the 9 credits required for a pathway

\*\*Course offered at College Street or Westlake T&I

\*\*\*Course offered at Washington Marion

\*\*\*\*Course offered at Sulphur High

Page 09

February 12, 2021



## LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY

For incoming freshmen 2020–2021



### OVERVIEW

The Law, Public Safety, Corrections and Security Jump Start 2.0 Pathway includes instruction in criminal justice and corrections, fire protection, homeland security, and other protective services. Students will be exposed to the theories and principles of correctional science; criminal law and policy; police and correctional systems organization; the administration of justice and the judiciary; and emergency and fire management services. Law, Public Safety, Corrections, and Security workers focus on protecting citizens in a vast array of settings. These settings include state and federal agencies as well as public and private entities.

### 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             |
|--------------------------------------|---------------------------------------|----------------------------------|
| Correctional Officer                 | Police Officer                        | Criminal Investigator            |
| File Clerk                           | Paralegal                             | Lawyer                           |
| Instructional Interpreter            | Interpreter                           | Nationally Certified Interpreter |
| Police, Fire, & Ambulance Dispatcher | Firefighter                           | Emergency Management Supervisor  |

### CAPSTONE CREDENTIALS

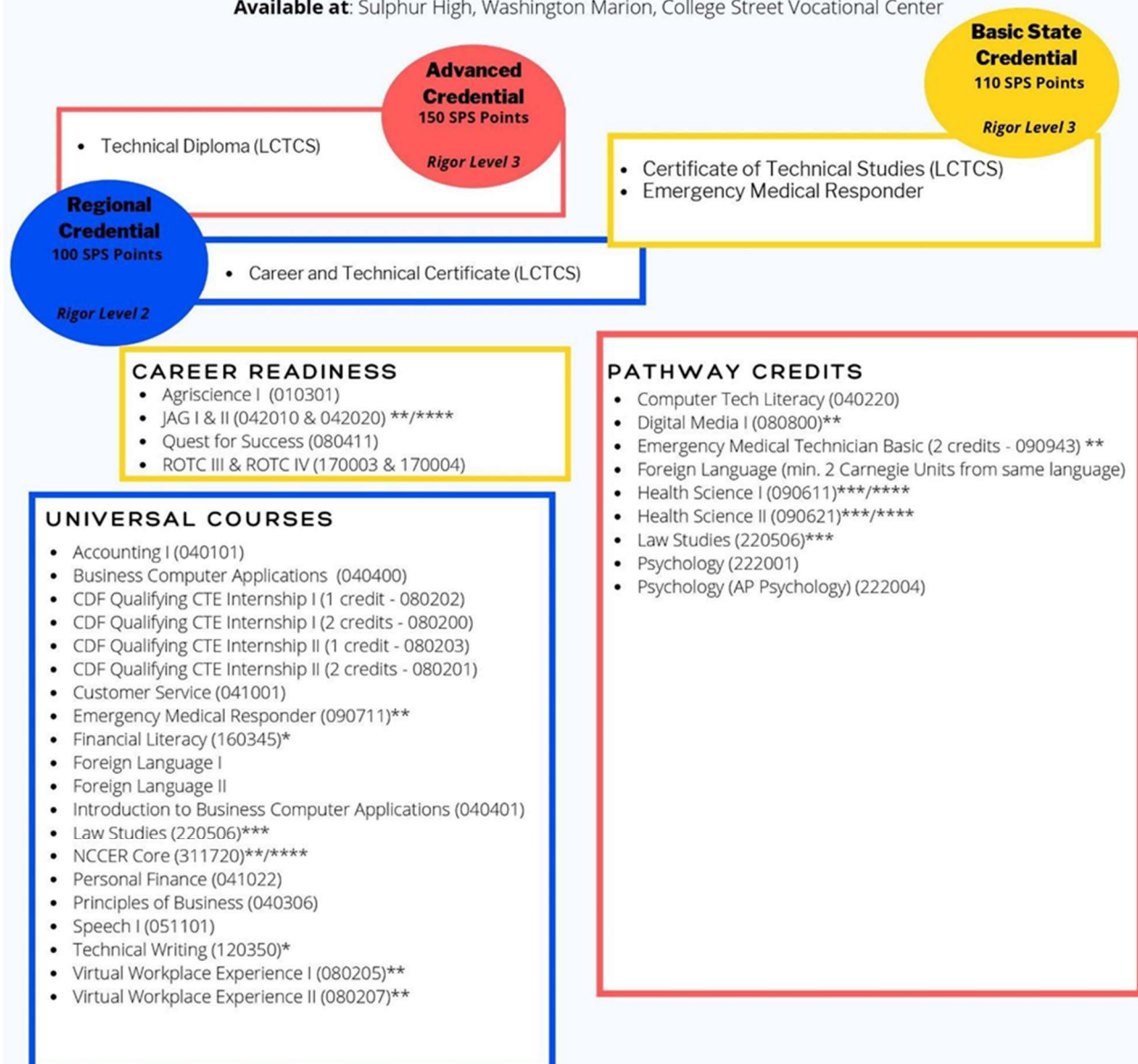
*In order to graduate, Jump Start students must earn at least one credential from the options below.*

| Regional (Emerging)                                       | Basic   | Advanced   |
|---|---|--|
| Career and Technical Certificate (LCTCS)*                 | Certificate of Technical Studies (LCTCS)*                                     | Technical Diploma (LCTCS)*   |
| Basic Firefighting  | Emergency Medical Responder (EMR)   | Emergency Telecommunicator Certification (911 Dispatch) (ETC) 1 AND Emergency Police Dispatch (EPD), Emergency Fire Dispatch (EFD) OR Emergency Medical Dispatch (EMD) |
| Sign Language Proficiency Interview (SLPI)                | Emergency Telecommunicator Certification (911 Dispatch) (ETC) 1               | Fundamentals of JavaScript, Functional Programming and Web Development, Lvl 2  |
| National Certification in Unified English Braille (NCUEB) | Geographic Information System - Entry Level Technician Certification          |  |
|   | FAA Part 107: Small Unmanned Aircraft Operations                              |  |
|   | Fundamentals of JavaScript, Functional Programming and Web Development, Lvl 1 |  |
|   | Literary Braille Transcriber  |  |

*\*Aligned to pathway.*

# Law, Public Safety, Corrections & Security

Available at: Sulphur High, Washington Marion, College Street Vocational Center



\*Courses taken for core requirements cannot be used towards the 9 credits required for a pathway

\*\*Course offered at College Street or Westlake T&I

\*\*\*Course offered at Washington Marion

\*\*\*\*Course offered at Sulphur High

Page 10

February 12, 2021

## 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)*   | Certificate of Technical Studies (LCTCS)*  | Technical Diploma (LCTCS)*   |
| AutoDesk Rivet Certified User   | ADDA Certified Mechanical Apprentice Drafter   | AutoDesk Inventor Certified User   |
| AWS Welding 1G  | Autodesk AutoCAD Certified User  | Electrical Training ALLIANCE Interim Credential (etA): Levels 1-5  |
| <b><u>Maritime Safety Credentials Suite:</u></b><br>Personal Safety/Social Responsibilities, Basic Water Survival, Basic Firefighting AND Basic First Aid/CPR AED | Certification for Manufacturing (C4M)  | <b><u>NCCER Level 2 or above</u></b><br>• Electrical • Instrumentation • Industrial Maintenance Mechanic • Insulating • Millwright • Mobile Crane Operator • Pipefitting • Welding |
| <b><u>NCCER:</u></b><br>• Basic Rigger • Helper Modules • Industrial Coating & Lining Application Specialist  | <b><u>Electrical Training ALLIANCE Interim Credential (etA):</u></b><br>• Levels 1-3 • Level 4 • Level 5   | NIMS Machining Level 2 Certification   |
| <b><u>OSHA:</u></b><br>• OSHA 10 • OSHA 30  | ESRI User Industry Based Certification   |  |
| <b><u>PEC Basic Orientation:</u></b><br>• Safe Land • Safe Gulf   | Louisiana Micro-Enterprise - Statewide   |  |
| Water Survival/Helicopter Underwater Egress Training (HUET)   | Certified Production Technician (CPT) AND Certified Production Technician Plus (CPT+)  |  |
|   | <b><u>NCCER Level 1</u></b><br>• Electrical • Heavy Equipment Operations • Instrumentation • Industrial Maintenance Mechanic • Insulating • Millwright • Mobile Crane Operator • Pipefitting • Welding |  |
|   | T2 Production Safety Systems   |  |

*\*Aligned to pathway.*

# Manufacturing

**Available at:** DeQuincy High, College Street Vocational Center, Starks High, Sulphur High and Westlake T&I

## Advanced Credential 150 SPS Points

*Rigor Level 3*

- Technical Diploma (LCTCS)
- NCCER Level 2; Electrical, Pipefitting, Welding

## Basic State Credential 110 SPS Points

*Rigor Level 3*

- Certificate of Technical Studies (LCTCS)
- Autodesk AutoCAD Certified User
- NCCER Level I: Electrical, Pipefitting, Welding

## Regional Credential 100 SPS Points

*Rigor Level 2*

- Career and Technical Certificate (LCTCS)
- Approved Helper Modules of NCCER credentials.
- OSHA 10

### CAREER READINESS

- Agriscience I (010301)
- JAG I & II (042010 & 042020) \*\*/\*\*\*\*
- Quest for Success (080411)
- ROTC III & ROTC IV (170003 & 170004)

### UNIVERSAL COURSES

- Accounting I (040101)
- Business Computer Applications (040400)
- CDF Qualifying CTE Internship I (1 credit - 080202)
- CDF Qualifying CTE Internship I (2 credits - 080200)
- CDF Qualifying CTE Internship II (1 credit - 080203)
- CDF Qualifying CTE Internship II (2 credits - 080201)
- Customer Service (041001)
- Emergency Medical Responder (090711)\*\*
- Financial Literacy (160345)\*
- Foreign Language I
- Foreign Language II
- Introduction to Business Computer Applications (040401)
- Law Studies (220506)\*\*\*
- NCCER Core (311720)\*\*/\*\*\*\*
- Personal Finance (041022)
- Principles of Business (040306)
- Speech I (051101)
- Technical Writing (120350)\*
- Virtual Workplace Experience I (080205)\*\*
- Virtual Workplace Experience II (080207)\*\*

### PATHWAY CREDITS

- Ag Leadership (010364)
- Agriscience II (010302)
- Agriscience III (010303)
- Agriscience IV (010304)
- Chemistry (150401)
- Computer Tech Literacy (040220)
- Drafting and Design Technology I (2 credits - 311302)\*\*\*\*
- Drafting and Design Technology II (2 credits - 311312) \*\*\*\*
- Environmental Science (150310)
- Geometry (160323)
- Industrial Electronics I (311800)
- Industrial Electronics II (311805)
- NCCER Core (311720)\*\*
- NCCER Electrical I (2 credits - 313402) \*\*
- NCCER Electrical II (2 credits - 313412) \*\*
- NCCER HVAC I (2 credits - 310102)\*\*
- NCCER HVAC II (2 credits - 310112)\*\*
- NCCER Pipefitter I (2 credits - 313602)\*\*
- NCCER Pipefitter II (2 credits - 313612) \*\*
- NCCER Welding Technology I (2 credits - 313702) \*\*/\*\*\*\*
- NCCER Welding Technology II (2 credits - 313712) \*\*/\*\*\*\*
- Process Instrumentation I (110915)
- Process Instrumentation II (110916)
- Process Technician I (110911)
- Process Technician II (110912)
- Process Technician III (110919)

\*Courses taken for core requirements cannot be used towards the 9 credits required for a pathway

\*\*Course offered at College Street or Westlake T&I

\*\*\*Course offered at Washington Marion

\*\*\*\*Course offered at Sulphur High

Page 11

February 12, 2021

## TRANSPORTATION, DISTRIBUTION, & LOGISTICS

For incoming freshmen 2020–2021



### OVERVIEW

The Transportation, Distribution, and Logistics Jump Start 2.0 Pathway focuses on the planning, managing, and moving of people, materials, and goods by road, pipeline, air, rail, and water. Pathway coursework will also equip students to provide professional and technical support services for transportation infrastructure planning and management, logistics, mobile equipment and facility maintenance. Pathway coursework will also equip students with skills to pilot drones.

### 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              |
|-----------------------------------|--|-----------------------------------|
| Automotive Body Repair Apprentice | Collision Repair Technician            | Automotive and Logistics Engineer |
| Automotive Information Helper     | Automotive Technician                  | Mechanical Engineer               |
| Drone Pilot                       | Aviation Airframe Maintenance Mechanic | Commercial Pilot                  |

### 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)*                                      |
| I-Car Student Certification   | <b><u>ASE Student Certificate:</u></b> <ul style="list-style-type: none"> <li>• Automobile Service Technology</li> <li>• Automotive Transmission and Transaxle</li> <li>• Brakes • Electrical/Electronic Systems</li> <li>• Engine Performance • Engine Repair</li> <li>• Heat and Air Conditioning</li> <li>• Maintenance and Light Repair • Manual Drivetrain and Axles • Steering and Suspension</li> </ul> | ASE Student Certificate (3+ certifications from the basic list) |
| <b><u>Maritime Safety Credentials Suite:</u></b> <ul style="list-style-type: none"> <li>• Personal Safety/Social Responsibilities, Basic Water Survival, Basic Firefighting, AND Basic First Aid/CPR AED</li> </ul> | Autodesk AutoCAD Certified User  | Autodesk Inventor Certified User                                |
| <b><u>OSHA:</u></b> <ul style="list-style-type: none"> <li>• OSHA 10 • OSHA 30</li> </ul>   | Certified Logistics Associate or Technician (MSSC)   |   |
| S/P2 Automotive Service Safety AND Automotive Service Pollution Prevention  | Collision Repair & Refinish Pro Platinum (I-CAR)   |   |
| <b><u>PEC Basic Orientation:</u></b> <ul style="list-style-type: none"> <li>• Safe Land • Safe Gulf</li> </ul>  | ESRI User Industry Based Certification   |   |
| Water Survival/Helicopter Underwater Egress Training (HUET)   | FAA Part 107: Small Unmanned Aircraft Operation  |   |
|   | Four Stroke Engine Technician  |   |
|   | Global Logistics Associate (ASTL)  |   |
|   | Louisiana Micro-Enterprise - Statewide   |   |



# Transportation, Distribution, & Logistics

**Available at:** College Street Vocational Center, DeQuincy High, Sulphur High, Westlake T&I

## Advanced Credential 150 SPS Points

*Rigor Level 3*

- Technical Diploma (LCTCS)
- ASE Student Certificate (3+ Certifications from the basic list)

## Basic State Credential 110 SPS Points

*Rigor Level 3*

- Certificate of Technical Studies (LCTCS)
- ASE Student Certificate (1-2): Automobile Service Technology, Automotive Transmission and Transaxle, Brakes, Electrical/Electronic Systems, Engine Performance, Engine Repair, Heat and Air Conditioning, Maintenance and Light Repair, Manual Drivetrain and Axles, Steering and Suspension
- Four Stroke Engine Technician
- Autodesk/Autocad

## Regional Credential 100 SPS Points

*Rigor Level 1*

- Career and Technical Certificate (LCTCS)
- OSHA 10
- S/P2 Automotive Service Safety AND Automotive Service Pollution Prevention

## CAREER READINESS

- Agriscience I (010301)
- JAG I & II (042010 & 042020) \*\*/\*\*\*\*
- Quest for Success (080411)
- ROTC III & ROTC IV (170003 & 170004)

## UNIVERSAL COURSES

- Accounting I (040101)
- Business Computer Applications (040400)
- CDF Qualifying CTE Internship I (1 credit - 080202)
- CDF Qualifying CTE Internship I (2 credits - 080200)
- CDF Qualifying CTE Internship II (1 credit - 080203)
- CDF Qualifying CTE Internship II (2 credits - 080201)
- Customer Service (041001)
- Emergency Medical Responder (090711)\*\*
- Financial Literacy (160345)\*
- Foreign Language I
- Foreign Language II
- Introduction to Business Computer Applications (040401)
- Law Studies (220506)\*\*\*
- NCCER Core (311720)\*\*/\*\*\*\*
- Personal Finance (041022)
- Principles of Business (040306)
- Speech I (051101)
- Technical Writing (120350)\*
- Virtual Workplace Experience I (080205)\*\*
- Virtual Workplace Experience II (080207)\*\*

## PATHWAY CREDITS

- Automotive Technician I (2 credits - 310312)\*\*
- Automotive Technician II (2 credits - 310322)\*\*
- Automotive Technician III (2 credits - 310332)\*\*
- Business Math (040307) \*
- Computer Tech Literacy (040220)
- Digital Media I (080800) \*\*
- Industrial Electronics I (311800)
- Industrial Electronics II (311805)
- Outdoor Power Equipment Technician I (2 credits - 312302) \*\*/\*\*\*\*
- Outdoor Power Equipment Technician II (2 credits - 312312) \*\*/\*\*\*\*
- Outdoor Power Equipment Technician III (2 credits - 312321)\*\*/\*\*\*\*

\*Courses taken for core requirements cannot be used towards the 9 credits required for a pathway

\*\*Course offered at College Street or Westlake T&I

\*\*\*Course offered at Washington Marion

\*\*\*\*Course offered at Sulphur High

Page 12

February 12, 2021

# Biomedical STEM Pathway

(Virtual courses through LCB Academy)

**Overview:** Students are exposed to the myriad of careers in biomedicine, focusing on the health of both animals and humans. This pathway is designed to cultivate the skills and knowledge that will prepare students for immediate workforce entry into biomedicine-related fields or the pursuit of pre-med or other science-related degrees in college. Pathway coursework provides students with authentic opportunities to engage with their community through action research, internships, and guest speakers.

**Students:** Any TOPS University or Jump Start student

To earn a **SILVER DIPLOMA SEAL**, students must take and pass the following courses:

- Introduction to Biomedical Sciences
- Introduction Computational Thinking
- Comparative Anatomy and Physiology
- Data Manipulation

To earn a **GOLD DIPLOMA SEAL**, students must take the courses required for a silver seal plus the following courses:

- Statistical Reasoning
- Introduction to Psychology (Dual Enrollment)
- General Biology I (Dual Enrollment)
- Calculus I (Dual Enrollment)

\*All the above are 5-point CPSB courses.

# Pre-Engineering STEM Pathway

(Virtual courses through LCB Academy)

**Overview:** Through hands on projects and interaction with industry professionals, the curriculum prepares students to compete in the 21st century by engaging them in understanding the fundamentals of engineering in the classroom as well as in the workplace. Students will understand the careers available to them in the field of engineering as well as learn key skills such as teamwork, oral and written technical communication, and work ethic that will serve them well whether they pursue an advanced degree or immediately join the workforce.

**Students:** Any TOPS University or Jump Start student

To earn a **SILVER DIPLOMA SEAL**, students must take and pass the following courses:

- Introduction to Engineering Design
- Introduction Computational Thinking
- Robotics
- Principles of Engineering (starting 2023-2024 school year)

To earn a **GOLD DIPLOMA SEAL**, students must take the courses required for a silver seal plus the following courses:

- Data Manipulation
- Statistical Reasoning
- General Biology I (Dual Enrollment)
- Calculus I (Dual Enrollment)

\*All the above are 5-point CPSB course.



