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If a course listed in this document requires a class/lab fee, students will be informed on the first day of class. No student will be denied access to instruction due to inability to pay fees.

ENGLISH DEPARTMENT

ENGLISH I

DESCRIPTION: This course allows students to read complex texts to develop critical thinking skills. Students will work with informational resources as well as works of fiction (poems, short stories, and plays). There will be an ongoing study of vocabulary in context, textual analysis, and author's craft and structure. Students will demonstrate a command of the English language through speaking and writing. Students will demonstrate an understanding of speaking and listening skills during group and class discussions, as well as presentations. Writing standards will be addressed through research writing, literary analysis of complex texts, and elements of narrative writing. Students will develop claims and support their arguments with textual evidence. Preparation for the LEAP 2025 is also part of this course.

ENGLISH I HONORS

DESCRIPTION: In addition to all the components of Regular English I, Honors students will study texts on a deeper level. Readings and assignments may differ and/or increase from those required in Regular English I. Students taking Honors will be required to complete readings outside of class and participate in summer reading. For the 2021-2022 school year, students will read *Fallen Angels* by Walter Dean Myers for their summer reading. All students must be prepared to take an exam on the novel on orientation day. Summer reading is required.

ENGLISH II

DESCRIPTION: This course allows students to read complex texts to develop critical thinking skills. Students will work with informational resources as well as works of fiction, such as poems, short stories, and plays. There will be an ongoing study of vocabulary in context, textual analysis, and author's craft and structure. Students will demonstrate a command of the English language through speaking and writing. Students will demonstrate an understanding of speaking and listening skills during group and class discussions, as well as presentations. Writing standards will be addressed through research writing, literary analysis of complex texts, and elements of narrative writing. Students will develop claims and support their arguments with textual evidence. Preparation for the LEAP 2025 is also part of this course.

ENGLISH II HONORS

DESCRIPTION: In addition to all of the components of Regular English II, Honors students will study texts on a deeper level. Readings and assignments may differ and/or increase from Regular courses. Students taking Honors will complete more of the readings outside of class. All Honors students will read an assigned novel during the summer and be prepared to take a test on the novel on orientation day. The summer reading novel for English II Honors for the 2021-2022 school year is *Lord of the Flies* by William Golding. All students must be prepared to take an exam on the novel on orientation day. Summer reading is required.

ENGLISH III

DESCRIPTION: English III is a course designed to help all students read, understand, and express their understanding of complex, grade-level texts. The new Louisiana ELA Guidebooks 9-12 builds students' understanding and knowledge through text sets, compelling questions, and integrated reading and writing activities. Students will explore central questions that connect units in a year-long pathway; examine texts by diverse authors and about substantive topics; engage in varied reading, discussion, writing, and presentation opportunities in and out of class; and experience integrated instruction and assessment leading to a comprehensive ELA experience.

ENGLISH III HONORS

DESCRIPTION: In addition to all the components of Regular English III, summer reading is required. The summer reading novel for English III Honors for the 2021-2022 school year is *The Scarlet Letter* by Nathaniel Hawthorne. All students must be prepared to take an exam on the novel on orientation day. Summer reading is required.

ENGLISH IV

DESCRIPTION: English IV is a course designed to help all students read, understand, and express their understanding of complex, grade-level texts. The new Louisiana ELA Guidebooks 9-12 builds students' understanding and knowledge through text sets, compelling questions, and integrated reading and writing activities. Students will explore central questions that connect units in a year-long pathway; examine texts by diverse authors and about substantive topics; engage in varied reading, discussion, writing, and presentation opportunities in and out of class; and experience integrated instruction and assessment leading to a comprehensive ELA experience. Students will also participate in English and reading ACT practice readiness skills.

ENGLISH IV HONORS***

DESCRIPTION: In addition to all the components of Regular English IV, summer reading is required. The summer reading novel for English IV Honors for the 2021-2022 school year is *Animal Farm* by George Orwell. All students must be prepared to take an exam on the novel on orientation day. Summer reading is required.

***This course is also offered as a dual enrollment course. Please access the website below for more information:

<http://www.lsu.edu/college-readiness/catalog.php>

ADVANCED PLACEMENT ENGLISH IV

DESCRIPTION: This course is a college level English course that provides a survey of British and world literature in preparation for the Advanced Placement English Literature and Composition exam. The course adheres to the curricular requirements outlined in the AP Literature and Composition Course Description. In this course, students develop a deeper understanding of an author's use of language through close reading of works of literary merit in various genres. In addition, students write analytical, argumentative, expository, response, and creative pieces in both formal and informal modes.

**BUSINESS ENGLISH**

DESCRIPTION: This course focuses on intense preparation for the following portions of the WorkKeys Test: *Graphic Literacy* and *Workplace Documents*. The Graphic Literacy assessment measures skills that individuals use when they read and comprehend graphical materials to solve work-related problems. The Workplace Documents assessment measures skills that individuals use when they read real workplace documents and use that information to make job-related decisions and solve problems. Students complete both sections of the test in this course.

TECHNICAL WRITING

DESCRIPTION: This is an introductory course in communicating information about technical subjects within a work setting. Students will write reports, instructions, summaries, and memos; they will also develop audience awareness skills and intensively prepare for the WorkKeys test.

MATHEMATICS DEPARTMENT**ALGEBRA I**

DESCRIPTION: Algebra I is a required course reviewing the four fundamental operations of the real number system and on algebraic expressions. Preparation for the LEAP 2025 TEST is also a part of this class.

ALGEBRA I HONORS

DESCRIPTION: This course provides the student with the understanding of the structure and logical patterns in math. Topics include variables, real and rational numbers, linear equations and inequalities, graphs of relations and functions, systems of open sentences, exponents, polynomials, factoring, radicals, quadratic equations, and word problems. Preparation for the LEAP 2025 TEST is also a part of this class.

GEOMETRY

PREREQUISITES: Algebra I

DESCRIPTION: Geometry is a study of the properties measurements and relationships of points, lines, angles, surfaces and solids in space. The course is designed to develop the student's ability to think logically in mathematical situations and extend this method of thought to problem solving in life situations. Preparation for the LEAP 2025 TEST is also a part of this class.

GEOMETRY HONORS

PREREQUISITES: Algebra I

DESCRIPTION: Geometry is a study of the properties, measurements and relationships of points, lines, angles, surfaces and solids in space. The course is designed to develop the student's ability to think logically in mathematical situations and extend this method of thought to problem solving in life situations. Preparation for the LEAP 2025 TEST is also a part of this class.

ALGEBRA II

PREREQUISITES: Algebra I and Geometry

DESCRIPTION: Algebra II extends the study of the concepts covered in Algebra I. This course covers all topics presented in Algebra I in greater depth. Additional topics may include: conics, logarithms, polynomial and rational functions.

BUSINESS MATH

DESCRIPTION: The course focuses on mathematics in business situations. Students will explore how businesses function through mathematical applications. Topics include all facets of managing a business such as personnel, production, purchasing, sales, marketing, storage, distribution, services, accounting, and planning.

FINANCIAL LITERACY

DESCRIPTION: A review of the four fundamental operations as applied to fractions and decimals. Ratio, proportion, and statistics are studied as applied to business and consumer problems.

MATH ESSENTIALS

DESCRIPTION: Math Essentials is a course designed to review fundamental operations and previous concepts covered in Algebra I and Geometry. This course can be used to fulfill the 4th math requirement for a Jump Start TOPS Tech diploma. It cannot be used to fulfill the 4th math requirement for TOPS University diploma.

ALGEBRA III***

PREREQUISITES: Algebra I, Algebra II, and Geometry

DESCRIPTION: This course is designed for the student who has successfully completed Algebra II but is not yet capable of the academic rigor of Advanced Math. The course will review solving equations and inequalities, graphing, factoring, and systems of equations. Course content includes the study of many types of functions: linear, quadratic, polynomial, exponential, logarithmic, rational, radical, and a unit on trigonometry.

ADVANCED MATHEMATICS***

PREREQUISITES: Algebra I, Algebra II, and Geometry

DESCRIPTION: Advanced Mathematics is an elective course designed for the college bound student. The first semester covers trigonometric concepts necessary for the study of calculus. The second semester will include content emphasis on extending the properties of the real number system, limits, sequences and the elementary functions.

ADVANCED PLACEMENT CALCULUS AB

PREREQUISITES: Algebra I, Geometry, Algebra II, and Advanced Mathematics.

DESCRIPTION: AP Calculus AB is roughly equivalent to a first semester college calculus course devoted to topics in differential and integral calculus. The AP course covers topics in these areas, including concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions.

CALCULUS HONORS***

DESCRIPTION: The course covers topics in these areas, including concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions.

***This course is also offered as a dual enrollment course. Please access the website below for more information:

<http://www.lsu.edu/college-readiness/catalog.php>



SCIENCE DEPARTMENT



PHYSICAL SCIENCE HONORS

DESCRIPTION: Physical science introduces freshmen to the basic concepts of chemistry and physics. It includes units of work in the metric system of measurement, force, work and motion, matter and its changes, energy and its forms, atomic structure and chemical bonds, etc. The topics of this course will be covered in great depth, and may require the use of library facilities and hands-on activities to expand ideas.

ENVIRONMENTAL SCIENCE

DESCRIPTION: Environmental Science is a course that prepares the student to understand environmental issues that confront modern citizens. This course offers an in-depth coverage of topics of Earth's spheres and cycles, the development and succession of ecosystems, resource management, and environmental awareness and responsibility.

BIOLOGY I HONORS

PREREQUISITES: Physical Science or Environmental Science
DESCRIPTION: Honors Biology is an advanced course designed to give students a comprehensive understanding of living organisms. Honors will explore content on a deeper level of comprehension. This course concentrates on evolution, cells, genetics, and ecology. The state LEAP2025 is required towards the end of the course. Multiple dissections will take place at the end of the course.

BIOLOGY I

PREREQUISITES: Physical Science or Environmental Science
DESCRIPTION: Biology is a course designed to give students a basic understanding of living organisms. This course concentrates on evolution, cells, genetics, and ecology. Content presented will prepare students for the required LEAP2025 state test. Dissections will take place at the end of the course.

CHEMISTRY

PREREQUISITES: Env. Science or Physical Science and Biology I
DESCRIPTION: Chemistry students explore the fundamental principles of chemistry which characterize the properties of matter and how it reacts. Computer-based and traditional laboratory techniques are used to obtain, organize and analyze data. Conclusions are developed using both qualitative and quantitative procedures. Topics include, but are not limited to: measurement, atomic structure, electron configuration, the periodic table bonding, gas laws, properties of liquids and solids, solutions, stoichiometry, reactions, kinetics, equilibrium, acids and bases, and nuclear chemistry.

CHEMISTRY HONORS

PREREQUISITES: Environmental Science or Physical Science and Biology I
DESCRIPTION: Honors Chemistry is an advanced comprehensive high school chemistry course. The Honors Chemistry class will move quickly through foundations of chemistry to allow more time for advanced topics and labs.

BIOLOGY II

PREREQUISITES: Environmental Science or Physical Science, Biology I. and Chemistry
DESCRIPTION: This course provides a comprehensive understanding of anatomy and physiology. Students explore advanced topics of cells, tissues, senses and the major organ systems. Several projects, dissections and labs will be completed throughout the course. Content will be covered at a quick and rigorous pace.

ADVANCED PLACEMENT BIOLOGY II

PREREQUISITES: Environmental Science or Physical Science, Biology I. and Chemistry
DESCRIPTION: AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes, genetics, information transfer, ecology, and interactions. This course requires hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices.

SOCIAL STUDIES DEPARTMENT



WORLD GEOGRAPHY HONORS

DESCRIPTION: World Geography Honors is a course designed for those students who have been recommended to pursue a TOPS College diploma. This course offers students a study of map skills, locations, physical features, land forms, climates, economies and culture of the world. Current event issues related to the geographical areas will be correlated with textbook materials to foster awareness among students. Students are required to prepare maps, chart population growth and migration, complete research projects and participate in writing and discussion of current events.

CIVICS HONORS

DESCRIPTION: Civics Honors is a course designed to offer students a study of the organization and operation of the national, state, and local governments of the United States of America. Also included is a study of the U.S. Constitution and the twenty-seven amendments. This course is designed to help students understand their role as U.S. citizens. Current events will be followed as relevant to the course material involving government and politics. Students are required to write reports on relevant topics. In addition, the Honors students will analyze the governments of other countries as compared to that of the U.S., participate in panel discussions, read and research news articles and court cases, and study election results.

CIVICS

DESCRIPTION: Civics is a course designed to offer students a study of the organization and operation of the national, state and local governments of the United States. Also included is a study of the U.S. Constitution and the twenty-seven amendments. This course is designed to help the students understand their role as U. S. citizens. Current events will be followed as relevant to the course material involving government and politics. Students are required to write book reports on relevant topics.



US HISTORY HONORS

DESCRIPTION: U.S. History Honors is a course designed to offer students a detailed study of the United States beginning with the Industrialization Era carrying through to the present. Topics to be studied include key people, wars, economics and politics that have shaped our nation. Honors history students will be required to complete studies of primary source documents. Other Honors requirements include but are not limited to: completion of a research paper and/or research project, research assignments requiring use of the internet and access to a printer outside of class time and possible use of school-created email. Preparation for the LEAP 2025 TEST is also a part of this class.

***This course is also offered as a dual enrollment course. Please access the website below for more information:

<http://www.lsu.edu/college-readiness/catalog.php>

US HISTORY

DESCRIPTION: U.S. History is a course designed to offer students a detailed study of the United States beginning with the Industrialization Era carrying through to the present. Topics to be studied include key people, wars, economics and politics that have shaped our nation. U.S. history students will be required to complete studies of primary source documents. Students will have regular homework assignments. Preparation for the LEAP 2025 TEST is also a part of this class.

WORLD HISTORY HONORS

PREREQUISITES: World Geography, Civics, US History
DESCRIPTION: World History is an elective course designed for students interested in man's early development and the origins of civilization. Outstanding civilizations of the past will be studied for the contributions each has made in history. The second nine-week period will include examine some present-day cultures.

***This course is also offered as a dual enrollment course. Please access the website below for more information:

<http://www.lsu.edu/college-readiness/catalog.php>

ADVANCED PLACEMENT EUROPEAN HISTORY

PREREQUISITES: World Geography, Civics, US History
DESCRIPTION: AP European History focuses on developing students' abilities to think conceptually about European history from approximately 1450 to the present and apply historical thinking skills as they learn about the past. Five themes of equal importance—Interaction of Europe and the World, Poverty and Prosperity, Objective Knowledge and Subjective Visions, States and Other Institutions of Power, and Individual and Society—provide areas of historical inquiry for investigation throughout the course. These require students to reason historically about continuity and change over time and make comparisons among various historical developments in different times and places

PHYSICAL EDUCATION DEPARTMENT



Note: REGULATION PE UNIFORM FOR ALL PE COURSES:

1. White socks
2. Tennis shoes
3. SMSH gym top
4. SMSH gym bottom

PE I

- FEES:
1. \$2.50 lock rental (girls)
 2. Gym bag
 3. Regulation PE uniform

DESCRIPTION: Students entering SMSH are required to have one credit in PE I and one credit in PE II. Also, PE I and PE II are prerequisites for PE III and PE IV.

PE II

PREREQUISITES: PE I required for PE II

- FEES:
1. \$2.50 lock rental (girls)
 2. Gym bag
 3. Regulation PE uniform

DESCRIPTION: Students entering SMSH are required to have one credit in PE I and one credit in PE II. Also, PE I and PE II are prerequisites for PE III and PE IV.

HEALTH EDUCATION

DESCRIPTION: Health Education is required for graduation. The following areas are covered in the curriculum: family living, nutrition, mental and emotional health, personal health, safety and first aid, consumer health, substance use and abuse, communicable and non-communicable diseases.

PE III or IV

PREREQUISITES: PE I and PE II

- FEES:
1. \$2.50 lock rental (girls)
 2. Gym bag
 3. Regulation PE uniform
- DESCRIPTION: This class can include the following activities, but not limited to:
1. Walking/aerobics
 2. Weight training/body sculpturing
 3. Girls' basketball (not varsity)
 4. Boys' basketball (not varsity)
 5. Coed volleyball
 6. Badminton (recreational games, etc)



JUNIOR RESERVE OFFICER TRAINING CORPS (JROTC)

RECOMMENDED GRADE LEVEL: 9TH -12TH

PREREQUISITES: None

FEES: \$25.00 (Uniform Fee)

DESCRIPTION: The program teaches cadets character education, student achievement, wellness, leadership, and diversity. In addition to promoting citizenship, JROTC also prepares students for college. JROTC offers around 2000 competitive scholarships per year.

****JROTC may be substituted for PE and Health Education.**



GENERAL ELECTIVES

QUEST FOR SUCCESS

DESCRIPTION: This is a career course that helps students identify personal and career goals and plan for the future. The curriculum includes a variety of industry-aligned performance tasks that simulate the real world of work and support employability skills. Additionally, students will apply a variety of technology skills, and be asked to continuously reflect on their learning.

SPEECH I

DESCRIPTION: Speech is a course for students who want to learn to think clearly and express themselves effectively before an audience, and prepares students for college and their careers. The course introduces the beginning speech student to a study of poise, use of body and voice, public speaking, oral interpretation of literature, and beginning argumentation. Throughout the semester we will cover: public speaking, basic forensic debate, and job interviewing skills. Within this process students will develop skills in reading, writing, speaking, listening, thinking, research, construction of writing and presenting with audience purpose in mind, as well as organization of materials.

SPEECH II

DESCRIPTION: Speech II is a course that emphasizes higher level speech construction and delivery, including a focus on research methods, rhetorical skills, and self-evaluation.

PSYCHOLOGY

PREREQUISITES: None

FEES: As needed for field trips

DESCRIPTION: This course will focus on the structure and development of human personality. Students will systematically examine the influences of childhood experiences on personality development as well as the significance of emotional development, integration, measurement of traits and personality types. This course also examines theories, research methods, and findings regarding the intellectual, emotional, perceptual, and social development of the adolescent; which includes the study of special coping or adjustment difficulties that adolescents may face.

FOREIGN LANGUAGE

FRENCH I

DESCRIPTION: French I is an elective course designed to introduce students to oral communication and limited written communication in French. An oral-aural approach is used in teaching vocabulary and grammar. In addition to learning the French language, students learn about people and their customs in French speaking countries and islands.

FRENCH II

PREREQUISITE: French I

DESCRIPTION: French II is an elective course designed for students interested in attaining proficiency in the French language. Students must be able to speak French and also be able to write simple paragraphs using vocabulary mastered in French I during the first semester. Essays and themes will be written during the first semester. Students will present original dialogues and stories in French. Emphasis on mastery of the following tenses is reinforced by both written and oral practice: passé compose and the simple future.

THE ARTS

ART

FINE ARTS SURVEY

DESCRIPTION: Fine Arts is a survey of the beliefs, traditions, and customs of humankind as reflected in the arts: visual arts, music, dance, and drama. This elective course is designed for students to explore the cultural and historical significance of the arts, and examine the nature of creativity



BAND

OBJECTIVES OF THE MUSIC DEPARTMENT: Skill in performance is the prime objective of the music program. The student will understand how melody, harmony, rhythm, intonation, dynamics, tempo and technique unite to produce a fine performance. The student will understand that developing the ability to perceive the aesthetic components of music is an important function of the instrumental/vocal class. The student can express his/her own emotions through the playing or singing of his/her music. The student will gain meaningful experiences through his/her participation in festival competitions, rehearsals, performances at concerts and at football games, parades (band) and community service.

Please review the following requirements for Marching Band—Fall and Spring:

- Class participation
- Attendance at all parades
- Attendance at all practices
- Attendance at all football games
- Materials needed for class (instruments, mallets, books, etc.)
- Attendance at ALL concerts (Battle of the Bands, Christmas, Spring and other Concerts)
- Correct uniforms
- Individual performance skills in class (sight-reading, playing of music, marching drills presented in class for performances)
- Written and instrumental tests

MARCHING BAND

DESCRIPTION: The band provides an academic opportunity to participate in instrumental ensemble playing. Special attention is given to forming proper habits with regard to band routine, tone production, intonation, interpretation, etc., through skill study and participation. Students are able to study and appreciate representative music of accepted value within the technical and intellectual range of their ability. The marching band performs at various competitions, parades, half-times, sporting events, and other community functions. Additional rehearsals are a requirement for this course



VOCATIONAL

FAMILY AND CONSUMER SCIENCE



NUTRITION & FOOD

DESCRIPTION: The students will learn good eating habits, essential nutrients the body needs, how to use new equipment, budgeting and time management. The course will have a minimum of 6 food labs, with many teacher demonstrations.

ADVANCED NUTRITION AND FOOD

DESCRIPTION: The course addresses more complex concepts in nutrition and food preparation, with emphasis on social, psychological, and cultural influences on food choices globally. Topics include nutrition and wellness for individuals and families across the life span; impact of technology on acquiring, organizing and evaluating information about foods and nutrition and exploration of careers in all aspects of the food industry. At least 8 laboratory experiences (basic and advanced skills) are included.

FAMILY AND CONSUMER SCIENCE I

DESCRIPTION: This course is an introduction to home economics. It is designed to assist the learner in personal resource management, build positive self-concept, make informed choices in the market place, and give realistic, hands-on experiences in a family setting. The course will have food and basic clothing demonstrations, with several student labs.

CHILD DEVELOPMENT

DESCRIPTION: This course provides opportunities for exploring benefits of studying children, stages of development, child development theories, child health and safety, behavior management, child abuse, needs of exceptional children, childcare services, community resources, technology, and career opportunities related to working with children.

COSMETOLOGY

COSMETOLOGY I (2 credits)

RECOMMENDED GRADE LEVEL: 11th and 12th
DESCRIPTION: This course will focus on the history of cosmetology, rules and regulations, ethics, and other professional and personal qualities required of a hairstylist. Students will study sanitation, bacteriology, safety, skin and scalp disorders, shampooing, braiding, and other aspects of the theory involved in Hairstyling. Students will practice on mannequins. They will observe the instructor model different styling and cutting techniques involved in Hairstyling. Students are preparing for their Student's License that they can obtain in Hairstyling II, once they meet the requirements of passing Hairstyling I.

COSMETOLOGY II (2 credits)

RECOMMENDED GRADE LEVEL: 11th and 12th
DESCRIPTION: This course focuses on the continuation of the theory learned in Cosmetology I. Students obtain their student's license and get hands-on experience with styling and cutting hair. The basic haircutting/styling of both males and females will be demonstrated. Facial massages, shaving, and the beginning o chemical hair relaxing and coloring are also discussed. This course can provide a student with dual enrollment credit.

INDUSTRIAL TECHNOLOGY

NCCER CORE

DESCRIPTION: 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. Students can earn the NCCER Core Certificate by successfully completing this program.

NCCER WELDING I

PREREQUISITES: 16 years of age or older
DESCRIPTION: This course involves the use of tools, materials, processes, and related information in the design, planning, construction, and finishing of metal, ornamental metalwork and welding. Application will give students basic processes to be later used in Welding Technology II.

NCCER WELDING II

PREREQUISITES: Passing grade in NCCER Welding I
DESCRIPTION: This course involves the use of tools, materials, processes and related information in the design, planning, construction and finishing of metal products in metal working areas such as bench metal, sheet metal, ornamental metalwork and welding. Application will give students basic processes to be later used in a technical college, community college, university or in a technical job atmosphere. Students can earn the NCCER Welder Level 1 Certificate by successfully completing this program.

NCCER ELECTRICAL I and II

RECOMMENDED GRADE LEVEL: 11th and 12th
PREREQUISITES: NCCER Core
DESCRIPTION: The program prepares students for a career in the electrical field by teaching students how to install electrical systems and structures, install wiring and other electrical components, and follow blueprints and state and local codes. Students can earn the NCCER Electrical Level I Certificate.

NCCER CARPENTRY I

RECOMMENDED GRADE LEVEL: 11th and 12th
PREREQUISITES: NCCER Core
DESCRIPTION: This class follows up the first year of Core with an emphasis on more of the technical aspects of the carpentry profession with training in stair layout, roof framing and other more specific skill sets. The course is intended for students who are interested in the many careers in the construction industry. These students should possess characteristics such as dedication to hard work, pride in a job well-done, an overall good work ethic and also the ability to be productive alone and also while working with others toward a common goal. It is also mandatory that the students possess good math skills.



BUSINESS



PRINCIPLES OF BUSINESS

DESCRIPTION: This course offers work-function skills standards, which are the result of more than two years' research about entry-level through first-line supervisory work in the retail, wholesale, personal services, and real estate industries. This class provides course work and exam qualification for the Customer Service and Sales industry-based credential that facilitates career mobility for employees, jobseekers, and students, and is a means to help identify qualified professionals for employers. If a student earns the **Customer Service and Sales** industry-based credential, he/she will earn an additional Carnegie unit.

PERSONAL FINANCE

DESCRIPTION: This course is designed to assist students in acquiring an understanding of many areas of the American financial environment. The course includes a framework for understanding the basic personal financial needs of most individuals and then relates it to how a business would operate in a similar fashion. Understanding financial management concepts is an important life skill and this course is designed to help students understand the impact of individual choices on occupational goals, future earnings potential, and the marketplace. Topics covered include financial responsibilities, income money management, spending and credit, depository institutions, checkbooks, taxes, and higher education financial help offerings.

INTRODUCTION TO BUSINESS COMPUTER APPLICATIONS

DESCRIPTION: This course is the first of two courses designed to provide students with basic computer application skills. Students will be introduced to the touch method of operating a computer keyboard to produce simple business documents. Emphasis is placed on basic computer concepts focusing on software, word processing, and presentation applications. Computer technology will be presented that could lead to the student's ability to obtain certification in basic information technology. Students must earn the Microsoft Office PowerPoint Certification for successful completion of this course. Students will also be given the opportunity to certify in Microsoft Office Word and Excel as well.

BUSINESS COMPUTER APPLICATIONS

PREREQUISITES: Introduction to Business Computer Applications
DESCRIPTION: Business Computer Applications is designed to acquaint students with the basic principles of word processing and digital design. Students will learn advanced Microsoft Word skills. This is a continuation from their introduction to Microsoft Word in IBCA. The students will also become familiar with basic photo editing skills in Adobe Photoshop. Students can earn Microsoft Word and Adobe Photoshop certifications upon successful completion of this course.

COMPUTER TECHNOLOGY LITERACY (ADOBE)

DESCRIPTION: Computer Technology Literacy (Adobe) is designed to acquaint students with the Visual Design elements of Adobe. This course includes instruction in Adobe Illustrator and Adobe InDesign. Adobe Illustrator is a program used to create objects using digital drawing tools. Adobe InDesign is a program used to create layouts for books, pamphlets and other publications. Students can earn certification in Adobe Illustrator and Adobe InDesign upon successful completion of this course.

COMPUTER SYSTEMS/NETWORKING (HELP DESK)

DESCRIPTION: Computer Systems (Helpdesk) is designed to acquaint students with the skills necessary to become a Helpdesk Technician. The students will become familiar with basic computer hardware, software, and networking skills. The students will use a virtual interface to respond to helpdesk situations. They will use virtual tools to repair virtual machines. The students will also learn communication skills necessary to respond to users with technical difficulties. Students can earn certification in IC3 Certification upon successful completion of this course.

HEALTH SCIENCE



INTRODUCTION TO HEALTH OCCUPATIONS

DESCRIPTION: The course offers an introduction to the various health professions, resources for career planning, and the concepts of professionalism, health care ethics, cultural competence, interdisciplinary health care teams, world health issues and health care policies.

MEDICAL TERMINOLOGY

DESCRIPTION: This course will provide a terminological overview of the structures, systems, physiology, and anatomy of the human body. There will be lecturing, power point presentations, and projects. Upon the successful completion of the Medical Terminology course, the student will be able to recognize, define, spell and pronounce many medical terms that will help prepare the learner for a career in the medical field. This course can provide a student with dual enrollment credit.

HEALTH SCIENCE

DESCRIPTION: This course is an introductory course for the students who wish to pursue a career in one of the medical/health related occupations. Emphasis is placed on microbiology, medical terminology, anatomy/physiology, infection control, safety, and accident prevention, as well as personal health information. Topics of study reinforce science, mathematics, communications, social studies, and health education.



EMERGENCY MEDICAL RESPONDER/FIRST RESPONDER

RECOMMENDED GRADE LEVEL: 10th, 11th, or 12th (16 years old)

RECOMMENDED PREREQUISITES: Intro. To Health

Occupations, Medical Terminology, and Biology

DESCRIPTION: This course will provide the student with an opportunity to test for certification as an Emergency Medical Responder. It includes a medical terminology portion, anatomy portion, and then an extensive, hands on section in preparation for the EMR exam. Student must first successfully obtain a Basic Life Support for the Health Care Professional Cardiopulmonary Resuscitation card to continue in the EMR class. Upon the successful completion of the First Responder course, the student will have a general understanding of the human anatomy, as well as be eligible to test for certification for EMR.

EMR LICENSURE/CERIFICATION REQUIREMENTS: Students must first successfully obtain an American Heart Association Basic Life Support CPR certification (offered through instruction in this course), maintain a 2.0 GPA in this course, be 16 years of age at the end date of this course, demonstrate competence in 5 EMR/psychomotor exams, and pass the final exam with 80% or better.

If the student passes the EMR exam, he/she will also be eligible to sit for the national certification exam, and complete the appropriate paperwork to be licensed in the state of Louisiana.

SPORTS MEDICINE

DESCRIPTION: Sports Medicine will provide an overview of the field of sports medicine as well as expose students to fundamental skills involved in a 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. Topics covered in this class include an examination into the different career paths in the sports medicine field and how each medical profession contributes to a coordinated sports medicine healthcare delivery team. An emphasis on the professional aspects involved in becoming a healthcare provider is also covered. Students will be provided the opportunity to examine a sports medicine facility and explore their policies, procedures and protocols utilized in patient care. A cornerstone of the field of sports medicine is risk management and injury prevention. Students will explore a variety of topics in injury prevention and be able to participate in skills that healthcare providers utilize to reduce injuries in sports medicine settings. Important skills that healthcare providers are oriented to during their professional career are basic life support for adults and pediatrics. Students are given the opportunity to obtain American Heart Association Basic Life Support for the Health Care Provider Cardiopulmonary Resuscitation (CPR) certification.

CERTIFIED NURSING ASSISTANT

RECOMMENDED GRADE LEVEL: 11th or 12th

DESCRIPTION: Our program is licensed by the State of Louisiana Department of Health and Hospitals and meets legal requirements for certification of nursing assistants (CNAs). 100 hours of training is on nursing assistant theory and skills in our lab, the nursing assistant trainee must complete 80 hours of geriatric clinical hours at St. Agnes Nursing Home in Breaux Bridge, LA. At the successful completion of our program, the Nursing Assistant Trainee will be qualified to take the State of Louisiana certification test to obtain their certification as a Certified Nursing Assistant. The test will be administered at the College and Career Center.



STEM Pathway (Pre Engineering)



INTRO TO ENGINEERING DESIGN (Dual Enrollment)

DESCRIPTION: Intro to Engineering Design is a college level LSU dual enrollment freshman course that introduces students to the design process, research and analysis, teamwork, engineering standards, and technical experimentation and documentation. Students will develop these skills through project based learning. Each of the 10 major engineering disciplines will be explored through hands on learning and guest presentations from industry professionals.

INTRO TO COMPUTATIONAL THINKING

DESCRIPTION: ICT introduces computer coding as a means to express mathematical and creative thinking. Students will be presented tasks that represent STEM foundations in which basic computational solutions are applied. This course will build on concepts of Algebra I which will be used in numerous coding projects.

PRINCIPLES OF ENGINEERING

PREREQUISITE: INTRO TO ENGINEERING

DESCRIPTION: Principles of Engineering (POE) is a sophomore-level survey of engineering course meant to be taken after Introduction to Engineering. The course continues to expose students to some of the major concepts that they will encounter in a postsecondary engineering course of study or in a technical career field. POE gives students the opportunity to develop skills and understanding of course concepts through activity-, project-, and problem-based (APPB) learning. Students will spend approximately 3 weeks exploring each discipline through concept lectures and hands-on projects. Through these lectures and projects, students will learn concepts such as, but not limited to, electrical circuitry, computer programming on Arduino's, Rube Goldberg machines, biomechanics, and pneumatics/hydraulic systems. Students will work in teams to develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. Students will also hone their 21st century skills by documenting their work and communicating their solutions to their peers and members of the professional community.

DATA MANIPULATION AND ANALYSIS

DESCRIPTION: This course introduces students to the emerging field of Data Science. Instructional units cover the standard practices for effective data manipulation, analysis, and interpretation as well as necessary concepts in the three disciplines involved (mathematics, statistics, and computing.) Numerous examples of typical problems encountered in Big Data are provided. The emphasis on this course is in the application of the concepts rather than the theory. In the second semester, students will work in teams on large projects in which they will use programming to analyze large datasets and create predictive models. The students will summarize their findings for each project in a written report and will also present them orally.

INTRO TO ROBOTICS

DESCRIPTION: Intro to Robotics builds on the fundamentals of engineering and programming through project based learning and the design of robots. The course consists of the topics principles of engineering, physics, electronics, mechanics, and programming. Students will use VEX components to create robots for a variety of projects that emphasize the design process in which students build, test, modify and document their progress.

For more information on the *LSU Pre Engineering Pathway*, please see the website below:

https://www.louisianabelieves.com/docs/default-source/js-graduation-pathways/stem-pathway-brief---lsu-pre-engineering.pdf?sfvrsn=5e63931f_26