Jackson Public Schools
Career Development Center

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2021-2022 COURSE OFFERINGS
WHY TAKE A CTE COURSE?
CTE courses help train a qualified workforce for today’s competitive job market. Our research-based programs meet national and accreditation standards. Because Career and Technical Education is critical to Mississippi’s economic development, we partner with local business leaders and legislators to achieve common goals. CTE courses help students develop marketable job skills and earn national industry certifications needed to achieve their occupational goals.

HOW ARE CTE CLASSES TAUGHT?
CTE classes housed at the Career Development Center are available to students from all high schools in the Jackson Public School District. The classes are conducted in classrooms and laboratories equipped to industry standards. Students also have the opportunity for Work-Based Learning experiences at actual business and industry locations.

CTE COURSE SEQUENCING
Students enrolled in CTE courses must complete all courses in a pathway in order to receive pathway credit. A pathway usually consists of introductory and concentrator courses.

INTRODUCTORY COURSE – (First Year) A CTE beginning level introductory course that contains introductory concepts required to build foundational and general knowledge.

CONCENTRATOR COURSE – (Second Year) A CTE course beyond the introductory level that is intended to provide more in-depth instruction and exploration of a specific industry sector. This is the final course in a planned sequence of courses that provides a rigorous and intensive culmination of a course of study.

VISION
The Career Development Center is dedicated to creating a school-wide culture where students can identify, select, and pursue career pathways. They will also develop necessary skills that lead to national certifications, post-secondary careers and/or college opportunities.

MISSION
At the Jackson Public Schools Career Development Center, we strive to create a safe environment where all students can learn. The learning process is an inclusive and collaborative effort of students, staff, family, business and industry, and the community. This collaboration creates the foundation for students to participate in a wide range of activities and to utilize technology. They will also be successful in the workplace or post-secondary education and achieve their best individual growth in a diverse and changing world.
CAN I GET CREDIT FOR TAKING CTE CLASSES?
Each CTE course awards Carnegie units for graduation requirements. Students earn two (2) Carnegie units for each course for a total of four (4) credits for completion of a pathway. Students must commit to two (2) years of enrollment in the same CTE program at the Career Development Center as part of the requirements for a Mississippi high school diploma with a Career and Technical Education endorsement.

ACADEMIC CREDITS
Several of the CTE programs at the Career Development Center offer students the opportunity to earn academic credits. For Science Carnegie units, the following CTE courses may be used to fulfill science requirements for graduation: one (1) unit may be in Concepts of Agriscience and a second unit may be earned by completing two of the following three courses: Plants, Animals and Environment. Two (2) units may be earned for students completing the pathway in Health Sciences and Sports Medicine. Health Sciences and Sports Medicine may be accepted in lieu of Contemporary Health to meet the graduation requirement for one-half (1/2) Carnegie unit in Health. Digital Media Technology may be accepted in lieu of the art requirement for students.

DUAL CREDIT-DUAL ENROLLMENT
The Career Development Center offers dual credit/dual enrollment through Hinds Community College for second-year students in the career pathways of Early Childhood Education; Marketing; Lodging, Hospitality and Tourism Management; and Automotive Services Technician.

STUDENT SUPPORT SERVICES
Each CTE student has access to staff members dedicated to support services. Student Service Coordinators provide interventions and supports for students to assist with academics, tutorials in CTE programs, and testing modifications and accommodations. CTE Guidance Counselors offer assistance to students in scheduling, program performance, scholarships, and personal counseling services. The Work-Based Learning Specialists help students with pursuing job opportunities, work-readiness skills, and internships.
CAREER DEVELOPMENT CENTER

NATIONAL CERTIFICATIONS
Students enrolled at the Career Development Center have an opportunity to earn national industry certifications in many of our program areas. Students enrolled in Construction Core/Carpentry, Heating, Ventilation and Air Conditioning (HVAC), and Welding may earn National Center for Construction Education and Research (NCCER) certification. ServSafe certification is available to students enrolled in Culinary Arts. Students enrolled in Automotive Services Technician and Collision Repair Technician may earn Automotive Service Excellence (ASE) certification. Fuji Automatic Numerical Controls (FANUC) certification is available to students enrolled in Engineering.

CTE STUDENT ORGANIZATIONS
Students enrolled in CTE courses have the opportunity to participate in student organizations. CTE Student Organizations are extracurricular groups that help students further their knowledge and skills by participating in activities, events, and competitions. Students also develop leadership skills and work-ready skills as a result of membership. The Career Development Center sponsors the following student organizations for membership: Educators Rising; Family, Career and Community Leaders of America (FCCLA); Health Occupations Students of America (HOSA); National FFA Organization; SkillsUSA; and Technology Student Association (TSA). Qualifying students also have an opportunity to join the National Technical Honor Society (NTHS).

16 NATIONAL CAREER CLUSTERS
There are 16 Career Clusters in the National Career Clusters Framework, representing 79 Career Pathways to help learners navigate their way to greater success in college and career. The Jackson Public Schools Career Development Center offers coursework in 13 of the Career Clusters in 17 Career pathways. These programs help learners discover their interests and their passions, and empowers them to choose the educational pathway that can lead to success in high school, college and career.

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The programs listed below will be offered for the 2021-2022 school year. Each page contains a brief description of the course. Click on the icon beside each course title for more details on the program.

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AGRICULTURE AND ENVIRONMENTAL SCIENCE & TECHNOLOGY

The Agriculture and Environmental Science & Technology (AEST) program of study focuses on the science, research, and business of agriculture and environmental science and technology. Students explore the major areas of Animal Sciences, Plant Sciences, Agricultural Business, Environmental Sciences, Agricultural Mechanization and Technology, and Natural Resources. The Animal Science course teaches students how to apply biology and life science to real-world life processes of animals and wildlife. The Environmental and Natural Resources course includes exploration into conducting research on sources of pollutants or hazards that affect either the environment or the health of the population. The Plant Science course teaches students how to apply biology and life science to real-world life processes of plants and vegetation.

DIGITAL MEDIA TECHNOLOGY

The Digital Media Technology program of study explores the occupations and educational opportunities associated with designing or creating graphics to meet specific commercial or promotional needs, such as packaging, displays, or logos. This program of study may also include exploration into designing clothing and accessories, and creating special effects, animation, or other visual images using film, video, computers, or other electronic tools and media, for use in computer games, movies, music videos, and commercials. Content such as safety, ethical issues and production, photography, graphic design, and print production will be offered to students. The audio production portion of the course emphasizes real-world, hands-on practice. The process of video production and editing as well as career opportunities in audio and video technology are explored in the course. Another component of the course is motion graphics.
The Simulation and Animation Design program of study is designed for students who wish to develop, design, and implement projects in the field of game design and development. This program of study also includes exploration into the techniques and tools used in game design and the creative design of content of such media. The course focuses on the basic areas of ethics, character development, audio and video production, and design using visualization software. Content such as safety, ethical issues, video game history, career opportunities, game mechanics, and photography is offered to students. Students have the opportunity to produce a final video game project that incorporates the skills and knowledge learned in simulation and animation design courses, giving students the chance to showcase what they have learned and accomplished. Upon the completion of this course, students will also have put the finishing touches on a video game portfolio that is cumulative of their work throughout all semesters of simulation and animation design.

The Television Broadcasting and Production program is designed to provide the basic foundation, skills, and knowledge for developing and producing broadcast-quality materials. Students will learn the skills necessary to work in a television and broadcasting production facility. They will acquire basic and advanced writing and video skills and the ability to provide support in all facets of a production studio. The program will provide hands-on experience in the areas of writing, editing, shooting, directing, and producing for commercial-grade broadcasts. The Television Broadcasting and Production program of study explores the occupations and educational opportunities associated with the production of audio and visual media formats for various purposes, such as TV broadcasts, advertising, video production, or motion pictures. This program of study also includes exploration into operating machines and equipment to record sound and images, such as microphones, sound speakers, video screens, projectors, video monitors, sound and mixing boards, and related electronic equipment. Students will also acquire basic and advanced writing skills and learn scriptwriting fundamentals.
The Teacher Academy program of study is a high school program with courses designed to attract students to the field of education, provide information and field experiences relevant to pursuing a degree in education, and prepare students for the rigors of a career in education so they will remain long-term educators. The Teacher Academy pathway includes classroom and hands-on experiences that will prepare students for employment or continuing education in the education field. Students receive history, theory, and professionalism needed to understand the educational system, provides students with the opportunity to gain knowledge and practice needed to enhance themselves as future educators. Students receive practice in communication skills, planning, teaching, diverse learners, and various subject areas needed to work in the educational system. Assessment strategies needed to understand the educational system is included in the course.

The Early Childhood Education program of study prepares students for employment or continuing education in the early childhood education field. Emphasis is placed on students’ personal and professional preparation for careers or education in the field, history, and trends of early childhood education, children’s health and safety, child development, and child guidance and observation. Students receive instruction on career and professional development, characteristics of high-quality early childhood centers, management and administration in quality child-care programs, and the learning environment.

*The Jackson Public Schools Career Development Center operates an Early Childhood Education “Lab School” on the campus.*
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BARBERING

The Barbering program of study introduces students to knowledge and skills related to providing beauty and personal care services. It prepares individuals to cut, color, perm, shampoo, and style hair. Students are also instructed on the proper techniques for facial massaging and shaving. Special attention is given to hygiene, safety, skin, scalp diseases, and equipment sterilization. Included is the study of sales, business management, laws governing the profession of barbering, and customer relationships. Students must demonstrate the safe use of the various types of clippers, razors, shears, and combs. Additional study of the structure and function of the skin, common skin disorders, and scalp and hair disorders is included. Practices include providing facial massages, rendering plain facials, shaving, mustache and beard trimming, and barbering services.

*Students who successfully complete all requirements for the Barbering program are eligible to test for Mississippi State Board of Barbering licensure.

COSMETOLOGY

The Cosmetology program of study introduces students to knowledge and skills related to providing beauty and personal care services. Students will explore safety, infection control, and decontamination issues associated with cosmetology. Students will also explore areas of the cosmetology field including nails, nail disorders, manicures, and pedicures. Students will be introduced to the properties of the hair and scalp, haircutting, draping, shampooing, and rinsing. Students will gain an understanding of hair coloring, thermal styling, permanent waving, and chemical relaxing. The course provides an overview of the techniques used in cosmetology including anatomy and physiology of cosmetology, and basic chemistry and electricity. Students will learn about the principles of hair design, braids and extensions, wigs, and hair enhancements. Students will gain understanding in hairstyling, hair removal, facials and facial massage, makeup, and advanced nail techniques. Students in this course will also be exposed to issues in the business of cosmetology including employment and licensing.

*Students who successfully complete all requirements for the Cosmetology program are eligible to test for Mississippi State Board of Cosmetology licensure.
CAREER DEVELOPMENT CENTER

HEALTH SCIENCES
The Health Sciences/Healthcare Clinical Services course is offered at Lanier High School and the Career Development Center.

Health Sciences program of study introduces students to occupations and educational opportunities related to diagnosing and treating acute, episodic, or chronic illness independently or as part of a healthcare team. This program of study also includes an introduction to the opportunities associated with providing treatment and counsel to patients as well as rehabilitative programs that help build or restore daily living skills to persons with disabilities or developmental delays. The Healthcare Clinical Services course (second-year) includes classroom and hands-on experiences that will provide students with an overview of the health care field, as outlined according to the health science cluster in the National Career Clusters Framework and the National Consortium on Health Science Education. It will also begin to prepare students for careers in occupations predicted to have a high number of available jobs in the next 10 years.

SPORTS MEDICINE
Sports medicine is one of the second-course options for students in the health sciences career cluster who have successfully completed the health science core class. The sports medicine career pathway focuses on the aspects of the prevention and care of sports injuries. Students will learn the importance of prevention, evaluation, acute treatment, and therapeutic care related to injuries in sports. Students will also learn about the types of injuries that can occur and be introduced to the emergency services associated with athletics.

Additionally, students will focus on rehabilitation techniques used to help patients recover from sports injuries. The program offers students the opportunity to examine the different careers associated with sports medicine and develop the workplace and employability skills associated with sports medicine professions.
The Culinary Arts program of study introduces students to occupations and educational opportunities related to the planning, directing, or coordinating activities of a food and beverage organization or department. This program of study also explores opportunities involved in directing and participating in the preparation and cooking of food. Preparation techniques for various foods are covered, along with the information needed to properly do these skills safely and efficiently. Foods included in this course are stocks, sauces, soups, basic baked goods, fruits, vegetables, potatoes, and grains. This is followed by basic nutrition and food preparation skills for dishes with eggs, dairy products, breakfast foods, sandwiches, salads, garnishes, meat, poultry, seafood, desserts, and more complex baked goods. It concludes with a detailed overview and hands-on practice of some culinary business skills, followed by employability preparation requiring the students to put together job applications, résumés, and more!

The Construction Core course emphasizes an overview of construction-related trades, such as carpentry, electrical wiring, masonry, and plumbing. This course gives students' real-world, hands-on practice in these areas. Students additionally learn fundamentals of construction safety, tools, math, and blueprint reading. The Carpentry program of study explores the occupations and educational opportunities related to constructing, installing, or repairing structures and fixtures made of wood, such as concrete forms (including frameworks, partitions, joists, studding, rafters, and stairways). This program of study may also include exploration into installing, dismantling, or moving machinery and heavy equipment according to layout plans, blueprints, or other drawings. Students interested in a career pathway of Architecture and Draft receive an introduction to the field as well as fundamentals of safety, math, geometric construction, orthographic projection, and computer-aided drafting (CAD) applications.
The Automotive Services program of study teaches students maintenance and light repair of automobiles and diagnostics of various types of vehicles. Students learn to collect payment for services or supplies. Students learn the fundamentals of engine repair, transmissions, electronic systems, brakes, engine performance, suspension/steering systems and automotive heating and air. Students perform typical vehicle maintenance procedures such as lubrication, oil changes, installation of antifreeze, or replacement of accessories like wiper blades or tires. This course contains an in-depth study of shop operations, safety, tools and equipment, and preparing the vehicle for both service and the customer.

The Collision Repair program of study teaches students classroom and hands-on fundamentals of the collision repair industry. Students will learn shop safety and organization, mechanical/electrical components, nonstructural analysis and damage repair, structural analysis and damage repair, and painting and refinishing. Collision Repair Technician covers information on safety, tool identification/use, employee information, collision estimating, paint mixing/matching, service specification and service information, measurement, personal and business skills, metal finishing and body filling, movable glass/hardware, inspecting and analyzing body components, repairs to outer body panels, frame inspection and repair, unibody inspection and repair, advanced welding, frame inspection and repair, unibody measurement and repair, fixed-glass procedures, and advanced welding/cutting applications.
TRANSPORTATION LOGISTICS

Transportation Logistics is a pathway designed to introduce students to the broad field of supply-chain management. The program includes instruction in the applied processes related to transportation logistics and introduces students to transportation practices and maintenance of facilities and equipment. Students in this pathway will participate in active-learning exercises, including integral activities and supervised experiences that highlight key logistics concepts. Students who successfully complete the competencies in this pathway will possess fundamental knowledge and skills that can be used to secure entry-level employment or as a foundation for continuing their education. Industry standards are adapted from the Career Cluster Resources for Transportation Logistics, developed by the National Association of State Directors of Career and Technical Education.

HEATING, VENTILATION & AIR CONDITIONING

The HVAC program of study explores the occupations and educational opportunities associated with installing, serving, or repairing heating and air conditioning systems and also the fabrication, assembly, installation, and repair of sheet metal products and equipment, such as ducts, control boxes, drainpipes, and furnace casings. HVAC I is an emphasis on Heating, Ventilation, and Air-Conditioning. Topics include employability skills, safety, construction math, construction drawings, materials handling, copper and piping, soldering and brazing, and basic electricity. HVAC II is an emphasis on Heating, Ventilation, and Air-Conditioning. Topics include employability skills, safety, carbon steel piping, introduction to cooling, introduction to heating, air distribution, leak detection evacuation recovery and charging, alternating current, and basic electronics.
Industrial Maintenance is an instructional program that prepares students for employment or continued education in the occupations of installation, maintenance, and repair work. The Industrial Maintenance I course introduces students to fundamentals of safety, tools, math, blueprint reading, materials handling, fasteners and anchors, oxy-fuel cutting, and an introduction to the National Electrical Code. Industrial Maintenance II is a continuation of Industrial Maintenance I with the emphasis on employability skills, safety, gaskets, packing, pumps, drivers, valves, lubrication, construction drawings, test equipment, material handling and rigging, mobile and support equipment, electrical theory, conductor termination and splices, hydraulic and pneumatic controls, and welding.

The Welding program of study focuses on the development and use of automatic and computer-controlled machines, tools, and robots that perform work on metal or plastic. Students will learn how to modify parts to make or repair machine tools or maintain individual machines, and how to use hand-welding or flame-cutting equipment. Students will leave the class with a firm foundation of knowledge in the areas of employability skills, safety, and basic tool knowledge. Additionally, students will learn Oxyfuel Cutting fundamentals. Students will cover proper equipment setup, safety measures, and correct welding techniques. Additionally, this course will offer students the opportunity to examine GMAW and FCAW. Additionally, students will learn about GTAW. Students will learn safety measures, setup procedures, and welding techniques for each type of welding.
One of the biggest challenges for many Mississippi business leaders is the shortage of a trained, reliable, and consistent workforce. Work-based learning (WBL) addresses this challenge by giving students opportunities to connect what they learn in the classroom with authentic work experiences. Furthermore, WBL experiences provide training grounds for students to practice and improve nontechnical skills, including dependability and working with others. The WBL courses gives Mississippi high school students the opportunity to earn academic credit for their authentic work experiences. WBL experiences can include, but are not limited to, internships, pre-apprenticeships, entrepreneurial ventures, service-learning, virtual enterprises, and other supervised work experiences.

*Students do not have to be enrolled in a CTE program to enroll in this course.

**College and Career Readiness Credit**
Students enrolled in this course during their 11th and 12th grade years can substitute one WBL credit for the College and Career Readiness (CCR) credit required for graduation.

**Career and Technical Diploma Endorsement**
Credit earned in this course satisfies the WBL requirement option for the Career and Technical Diploma endorsement.

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**LAW & PUBLIC SAFETY**

The Law & Public Safety course is offered at Callaway High School.

This course focuses on the history of law and legal systems in the United States. Students will leave the class with a firm foundation of knowledge in these areas. Additionally, students will learn the importance of personal health and safety in the work environments associated with law and public safety. Students will also be introduced to the emergency services found in local communities. Additionally, students will focus on corrections in the state of Mississippi, studying specifically how jails and prisons function. This course offers topics of all related community-based safety areas, including Security and Protective Services, Crime Scene Investigations, Emergency Medical Services, Fire Protection Services, Emergency Management and Careers in the Military.

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**WORK-BASED LEARNING**

One of the biggest challenges for many Mississippi business leaders is the shortage of a trained, reliable, and consistent workforce. Work-based learning (WBL) addresses this challenge by giving students opportunities to connect what they learn in the classroom with authentic work experiences. Furthermore, WBL experiences provide training grounds for students to practice and improve nontechnical skills, including dependability and working with others. The WBL courses gives Mississippi high school students the opportunity to earn academic credit for their authentic work experiences. WBL experiences can include, but are not limited to, internships, pre-apprenticeships, entrepreneurial ventures, service-learning, virtual enterprises, and other supervised work experiences.

*Students do not have to be enrolled in a CTE program to enroll in this course.*
The JPS CTE Adult Education programs provide classroom learning and training activities combined with guided on-the-job learning/training workforce experiences for adults eighteen (18) years of age and older. The purpose of the short-term Adult Career and Technical programs/classes is to help adults and employers make the right employment matches, to enhance economic development and education in the Jackson Metro area, and to prepare adults with the necessary knowledge and skills to compete in a global economy.


Operating a vehicle is oftentimes very intimidating for teenagers. Completing a driver’s education course prior to obtaining one’s license will help teenagers develop basic vehicle control and traffic maneuvers. It teaches students how to safely operate a vehicle on busy interstates, at night, and during other dangerous driving circumstances. Driver’s education also stresses the importance of adjusting a vehicle’s steering wheel, seat, and rear and side-view mirrors. It also allows for students to practice communicating while driving, entering and exiting traffic, using turn lanes, changing lanes, and adjusting their vehicles’ speeds when necessary. In addition to practicing driving, students learn about various traffic signals and markings on the roadway. Perhaps the most important skill to develop is the ability to foresee hazards and unsafe situations.
At Jackson Public Schools, we prepare scholars to achieve globally, to contribute locally, and to be fulfilled individually.

At Jackson Public Schools, we develop scholars through world-class learning experiences to attain an exceptional knowledge base, critical and relevant skill sets, and the necessary dispositions for great success.

At Jackson Public Schools, we believe in the importance of equity, excellence, growth mindset, relationships, relevance, and positive and respectful cultures.

The Jackson Public School District grants equal educational opportunities to all qualified persons regardless of race, creed, color, sex, national origin, marital status, religion, or disability. It is the intent of the Board of Trustees that equal educational opportunities be provided in any and all educational programs and activities.

Students are encouraged to talk with their school counselor to learn more about Mississippi’s Traditional high school diploma and opportunities to earn endorsements.
To register for courses at the Career Development Center for the 2021-2022 School Year, please complete the CDC Application in the link below and contact your school’s counselor.

CDC APPLICATION:

For more information, contact our counselors:

Mrs. Jodie Johnson
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THANK YOU FOR YOUR INTEREST!