

OFFICE OF CHIEF ACADEMIC OFFICER
Summary of State Board of Education Agenda Items
Consent Agenda
February 15, 2024

OFFICE OF CAREER AND TECHNICAL EDUCATION

- E. Approval to begin the Administrative Procedures Act process: To establish selected Mississippi Secondary Curriculum Frameworks in Career and Technical Education

Executive Summary

The Mississippi Secondary Curriculum Frameworks have a two-year or four-year curricula revision cycle. Approved secondary curricula will be disseminated for implementation in the 2024-2025 school year.

The following secondary curriculum frameworks are recommended for approval:

1. Emergency Medical Services
2. Energy Technology II
3. Multimedia Core
4. Multimedia—Advanced Broadcast and Production
5. Multimedia—Broadcast Foundations
6. Multimedia—Digital Design
7. Multimedia—Digital Video Production
8. Unmanned Aircraft Systems (UAS)

All curricula frameworks are designed to provide local programs with an instructional foundation that can be used to develop localized instructional management plans and course syllabi. Additionally, the frameworks include the following elements for each revised secondary curriculum:

- ❖ Program
- ❖ Description
- ❖ Classification of Instructional Program (CIP) Code and CIP Name
- ❖ Course Outline and Codes
 - Curriculum
 - Student Competencies
 - Suggested Student Objectives

NOTE: The Office of Career and Technical Education has provided executive summaries of the curriculum frameworks.

Recommendation: Approval

Back-up material attached

Summary of Secondary Curricula Changes for Career and Technical Education

Emergency Medical Services

The emergency medical services program provides a foundation of knowledge to prepare students for employment or continued education in several occupations related to the emergency medical responders. The curriculum framework for this program was developed in partnership with various businesses and individuals across the state including the emergency medical technicians, paramedics, firefighters, and community college representatives.

When developing this curriculum, the authors recognized the importance of incorporating differentiated instruction and the needs of the 21st Century learners. Therefore, teaching strategies include a variety of hands-on, shop-based activities, soft skill development, and project-based learning. Upon completion of the two-year program, graduates may become employed at the entry level, enter an emergency medical program, or further pursue the field through a postsecondary program.

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Energy Technology II

The Energy Technology II program provides a foundation of knowledge to prepare students for employment or continued education in several occupations related to the energy technology industry. The curriculum framework for this program was developed in partnership with various industries across the state including Entergy Mississippi, Mississippi Power (Southern Company), and more.

When developing this curriculum, the authors recognized the importance of incorporating differentiated instruction and the needs of the 21st Century learners. Therefore, teaching strategies include a variety of hands-on, shop-based activities, soft skill development, and project-based learning. This curriculum is written for programs to foster and develop a partnership with local industry and tailor the content to fit the needs of that local industry, all while giving students a solid foundation in basic energy technology skills.

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Multimedia Core Pathway

The Multimedia Core Pathway program is designed to introduce students to the diverse and dynamic field of multimedia production, aligning with the evolving demands of the arts, A/V technology, and communications career cluster. Developed in collaboration with industry experts and educational professionals, this curriculum lays a solid foundation in design principles, digital citizenship, and various multimedia platforms.

Recognizing the needs of 21st Century learners, the course employs a blend of hands-on activities, creative projects, and theoretical learning. The curriculum is structured to adapt to the rapidly changing landscape of multimedia, ensuring students are well-versed in contemporary design and production techniques. From foundational knowledge in graphic design and video editing to advanced skills in digital content creation, the program prepares students for a range of career paths including broadcasting, graphic design, and digital media.

Designed with flexibility in mind, the program allows for customization to meet local industry needs while maintaining a core focus on essential multimedia skills. The course's comprehensive approach ensures that students are not only technically proficient but also creatively empowered, ready for further education or entry into the multimedia industry.

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Advanced Broadcast and Production

The Advanced Broadcast and Production program offers an in-depth curriculum designed to elevate students' skills in the broadcasting and production industry, aligning with the evolving needs of modern media enterprises. This comprehensive course, developed with input from industry leaders and academic professionals, extends beyond basic broadcasting to encompass advanced video production, sound design, and media management techniques.

Tailored to bridge the gap between foundational learning and professional application, the program delves into employability skills, sophisticated video production methodologies, and the strategic use of nontraditional and social media in broadcasting. Students explore complex concepts such as advanced scriptwriting, innovative sound design, and effective studio and control room equipment use. The course's structure emphasizes a blend of hands-on learning with theoretical instruction, catering to the diverse learning styles of 21st Century students.

Focusing on real-world application, the program prepares students for high-demand roles in the broadcast industry, from production management to on-air performance. The curriculum is designed to impart technical expertise and foster creativity, adaptability, and digital fluency, equipping students for further education in media-related disciplines or direct career pathways in the evolving landscape of broadcast and production.

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Broadcast Foundations

The Broadcast Foundations program is strategically developed to provide students with a fundamental understanding and skill set in the broadcasting sector, aligning with current industry standards and expectations. This curriculum, formulated in collaboration with broadcasting professionals and academic experts, aims to lay a solid groundwork for students aspiring to careers in television, radio, and digital broadcasting.

Focusing on core aspects of the industry, the course encompasses scriptwriting, broadcast performance, editing techniques, and an in-depth understanding of studio and control room equipment. The curriculum is tailored to meet the needs of 21st Century learners, employing a mix of theoretical learning and hands-on practical experiences. Students engage in project-based activities, emphasizing both the creative and technical dimensions of broadcasting.

Designed to be adaptable, the program prepares students for various roles in the dynamic broadcasting environment. The course encourages students to develop a strong foundation in communication skills, technical know-how, and on-camera presence, making them well-suited for further education in media fields or for direct entry into the broadcasting industry. By the end of the program, students will have a comprehensive portfolio demonstrating their proficiency in the foundational aspects of broadcasting.

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Digital Design

The Digital Design program is crafted to offer comprehensive training in the field of digital arts and design, responding to the growing demand for skilled professionals in this dynamic sector. Collaboratively developed by industry experts and educational specialists, this curriculum bridges theoretical knowledge and practical application in digital design.

Centrally focused on key design elements such as photo editing, layout, typography, and branding, the course equips students with the necessary tools to create compelling digital content. By integrating cutting-edge design software and techniques, the program addresses various multimedia formats, preparing students for the diverse challenges they will encounter in the digital design field.

The curriculum emphasizes the development of critical 21st Century skills, including creativity, digital literacy, and ethical digital citizenship. It offers a pathway for students aiming for careers in graphic design, web design, digital media, and other related fields. Hands-on projects, collaborative assignments, and individual creativity are all fostered within this course, ensuring that students are not only technically proficient but also artistically expressive.

The Digital Design program serves as an essential steppingstone for students seeking advanced education or direct entry into the design industry, providing them with a solid foundation and a portfolio of work to showcase their skills and creativity.

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Digital Video Production

The Digital Video Production program is meticulously crafted to equip students with a comprehensive understanding and practical skills in the field of video production, pertinent to today's rapidly evolving media landscape. This curriculum, developed in consultation with industry professionals and educational experts, focuses on preparing students for diverse careers in digital media, broadcasting, and filmmaking.

Emphasizing a hands-on learning approach, the course covers the entire spectrum of video production, from initial concepts and scripting to advanced post-production techniques. Students are introduced to essential concepts such as shot composition, camera operations, audio and lighting techniques, and the nuances of editing and broadcasting. The curriculum is designed to cater to the needs of 21st Century learners, integrating project-based learning with a strong emphasis on creativity and technical proficiency.

The program aims to foster well-rounded media professionals by combining theoretical knowledge with practical application. Students gain valuable experience through real-world projects, preparing them for various roles within the digital video production industry. This course serves as a stepping stone for students seeking advanced education in media-related fields or direct entry into the workforce with a solid foundation in video production.

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Unmanned Aircraft Systems (UAS)

The Unmanned Aircraft Systems (UAS) program provides a foundation of knowledge to prepare students for employment or continued education in several occupations related to the energy technology industry. The curriculum framework for this program was developed in partnership with various industries across the state including Dow, GEO Jobe, UAS Solutions, and more.

When developing this curriculum, the authors recognized the importance of incorporating differentiated instruction and the needs of the 21st Century learners. Therefore, teaching strategies include a variety of hands-on, shop-based activities, soft skill development, and project-based learning. This curriculum is written for programs to foster and develop a partnership with local industry and tailor the content to fit the needs of that local industry, all while giving students a solid foundation in basic unmanned aircraft systems technology skills.

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