

OFFICE OF CHIEF ACADEMIC OFFICER
Summary of State Board of Education Agenda Items
Consent Agenda
April 21, 2022

OFFICE OF CAREER AND TECHNICAL EDUCATION

- D. Approval to establish selected Mississippi Secondary Curriculum Frameworks in Career and Technical Education
(Has cleared the Administrative Procedures Act process without public comments)

Executive Summary

The Mississippi secondary curricula frameworks for career and technical education are developed through researching and examining labor market data, economic trends, business and industry needs, and student interests. Based on data and findings, new curricula for career and technical education are being recommended for dissemination and implementation for the 2022-2023 School Year.

The following secondary curricula frameworks are recommended for approval:

01. Collision Repair Technician—Non-Structural
02. Agricultural Communications
03. Food Science
04. Poultry Science
05. Veterinary Science
06. Law Enforcement

All new 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

Recommendation: Approval

Back-up material attached

Collision Repair Technician—Non-Structural

Collision Repair is a hands-on program that will prepare students for employment or continuing education in the collision repair industry. The content consists of fundamentals of collision, nonstructural analysis and damage repair, structural analysis and damage repair, and painting and refinishing. The program is aligned with the ASE 2021 Collision Repair and Refinishing standards.

The curriculum for Collision Repair Technical – Non-Structural was designed to complement the existing curriculum for Collision Repair – Paint and Refinishing. Local school districts will be able to choose a collision repair curriculum that best meets the needs of their local business and industry and prepares students for ASE certifications.

Agricultural Communications

Agricultural Communications is a one-credit course within the new Diversified Agriculture pathway. All students must complete Principles of Agriscience before being allowed to enroll in Agricultural Communications. This course is designed for agricultural education programs to teach students the fundamentals of communications in the agriculture industry. Units are designed to develop skills in research, writing and editing, print media, photography, videography, digital audio broadcasting, web design, and utilizing social media. Students will develop a professional portfolio featuring individual and group work, as well as create a communications plan for an agricultural business or organization.

The curriculum framework for Agricultural Communications was written as part of the updated Diversified Agriculture Pathway that is replacing Agriculture and Environment Science and Technology. The new framework will meet the current needs of the agriculture industry in Mississippi and prepare students to earn industry credentials, participate in quality work-based learning opportunities, and build professional portfolios.

Food Science

Food Science is a one-credit course within the new Diversified Agriculture pathway. All students must complete Principles of Agriscience before being allowed to enroll in Food Science. Content in the course includes competencies in food chemistry, composition and analysis, the science of food processing, sensory evaluation, and product development. Upon completion of this course, students will have learned the basic roles and functions of a career in food science and will have gained basic skills required of an entry-level worker in food processing facility.

The curriculum framework for Food Science was written as part of the updated Diversified Agriculture Pathway that is replacing Agriculture and Environment Science and Technology. The new framework will meet the current needs of the agriculture industry in Mississippi and prepare students to earn industry credentials, participate in quality work-based learning opportunities, and build professional portfolios.

Poultry Science

The Diversified Agriculture Poultry Science course is a one-credit course within the new Diversified Agriculture Pathway. All students must complete Principles of Agriscience

before being allowed to enroll in Poultry Science. Content in this course includes competencies in poultry production, anatomy and physiology, genetic makeup, reproduction, and hatchery management. Upon completion of this course, students will have learned the basic roles and functions of a career in poultry science and will have gained basic skills required of an entry-level worker in a poultry facility.

The curriculum framework for Poultry Science was written as part of the updated Diversified Agriculture Pathway that is replacing Agriculture and Environment Science and Technology. The new framework will meet the current needs of the agriculture industry in Mississippi and prepare students to earn industry credentials, participate in quality work-based learning opportunities, and build professional portfolios.

Veterinary Science

The Veterinary Science course is a one-credit course within the new Diversified Agriculture Pathway. All students must complete the Principles of Agriscience course before being allowed to enroll in Veterinary Science. Veterinary Science is focused on providing a knowledge base of veterinary medicine for students interested in careers as a veterinarian, veterinarian technician or assistant, or other occupations within the animal industry. This course highlights the basics of the profession, safety in the workplace, animal diseases, handling and restraint, care and grooming, clinical and surgical procedures, and client relationships within a practice. Emphasis is on an active learning environment enriched with technology, business simulations, and math-based applications.

The curriculum framework for Veterinary Science was written as part of the updated Diversified Agriculture Pathway that is replacing Agriculture and Environment Science and Technology. The new framework will meet the current needs of the agriculture industry in Mississippi and prepare students to earn industry credentials, participate in quality work-based learning opportunities, and build professional portfolios.

Law Enforcement

Law Enforcement is a new pathway in the Law, Public Safety, Corrections, and Security career cluster. It is a two-year high school program designed to include classroom and hands-on experiences to prepare students for employment or continuing education in the law enforcement field. Over the course of study, students will gain in-depth knowledge of local, state, and federal law enforcement functions from an historical and organizational point of view. Emphasis is also placed on the U.S. legal system and constitutional and criminal law. Students will also gain an understanding of the ethical and legal responsibilities of law enforcement officers and their roles. Instructional strategies and activities implemented through the course of study align to the BLEOST and the National EMS Education Standards.

The new curriculum for Law Enforcement will allow local school districts to implement the general Law and Public Safety pathway or a more specialized pathway such as law enforcement or fire science.