

OFFICE OF CHIEF ACADEMIC OFFICER
Summary of State Board of Education Agenda Items
February 16, 2023

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. The revision cycle includes input from local district personnel and business/industry partners. Approved secondary curricula will be disseminated for implementation in the 2023-2024 school year.

The following secondary curriculum frameworks are recommended for approval:

1. Barbering
2. Diversified Agriculture Capstone
3. Diversified Agriculture Precision Agriculture
4. Diversified Agriculture Turfgrass Management
5. Energy Technology
6. Exploration of Agriscience
7. Software Development

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 framework. The detailed documents are available upon request.

Recommendation: Approval

Back-up material attached

Summary of New Secondary Curricula for Career & Technical Education

2023 Barbering

The barbering program provides a foundation of knowledge to prepare students for employment or continued education in several occupations related to the barbering or cosmetology profession. The curriculum framework for this program was developed in partnership with various businesses and individuals across the state including the Mississippi Board of Barber Examiners, licensed barbers, and cosmetologists.

2023 Diversified Agriculture Capstone

The Diversified Agriculture Capstone program provides a foundation of knowledge to prepare students for employment or continued education in several occupations related to the agriculture industry. Focusing on embedded work-based learning with a global agriculture lens, this curriculum was developed with guidance from Mississippi State University, Pennsylvania State University, and the United Nations' Sustainability Development Goals.

2023 Diversified Agriculture Precision Agriculture

The Diversified Agriculture—Precision Agriculture curriculum is a one-Carnegie unit course within the four-credit Diversified Agriculture pathway. Students must complete the Principles of Agriscience prerequisite course before being allowed to enroll in the Diversified Agriculture—Precision Agriculture course. This course will explore how modern technology affects the agriculture industry. Students will learn how farming has become more site-specific because of the data collected by modern technologies. This course provides an opportunity for students to survey precision agriculture and how it benefits farmers and the agriculture industry.

2023 Diversified Agriculture Turfgrass Management

The Diversified Agriculture Turfgrass Management curriculum is a one-Carnegie unit course within the four-credit Diversified Agriculture pathway. All students must successfully complete the Principles of Agriscience prerequisite course before being allowed to enroll in this course. This course is centered on turfgrass and how it is managed within multiple settings and climates. The course provides an opportunity for students to go in-depth regarding turfgrass management and the career opportunities it provides.

2023 Energy Technology

The Energy Technology program provides a foundation of knowledge to prepare students for employment or continued education in several occupations related to the energy management and systems technology industry. The curriculum framework for this

program was developed in partnership with various industries across the state including Mississippi Power, Entergy Mississippi, Mississippi Solar, and more.

2023 Exploration of Agriscience

The Exploration of Agriscience program introduces the world of agriculture to middle school students. The course provides an opportunity for students to explore the different fields of agricultural sciences, including Mississippi-based agriculture, and develop foundational skills and knowledge needed for advancement in other courses and programs.

2023 Software Development

The Software Development program provides a foundation of knowledge to prepare students for employment or continued education in several occupations related to the software development industry. The curriculum framework for this program was developed in partnership with industries across the state including C Spire, and CoreLogic.