

OFFICE OF CHIEF ACADEMIC OFFICER
Summary of State Board of Education Agenda Items
Consent Agenda
March 17, 2016

OFFICE OF CAREER AND TECHNICAL EDUCATION

- D. Revise 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 Curriculum Frameworks have a 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 fall 2016.

The following secondary curriculum frameworks are recommended for approval:

1. Architecture and Drafting
2. Business Fundamentals CORE
3. Diesel Service Technician
4. Furniture Design and Manufacturing
5. Horticulture
6. Heating, Ventilation, and Air Conditioning (HVAC)
7. Industrial Maintenance
8. Information Technology
9. Management
10. Marketing
11. Simulation and Animation Design

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 curricula:

- ❖ 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 revisions. The detailed documents are available upon request.

Recommendation: Approval

Back-up material attached

Summary of Secondary Curricula Changes for Career & Technical Education

2016 Architecture and Drafting

- Expanded math content in Unit 2
- Updated content in Unit 5: Computer Aided Drafting (CAD)
- Defined pictorial drawings in Unit 10: Pictorial Drawings
- Identified the Math content in Year 2
- Realigned and expanded content in Units 15 and 16

2016 Business Fundamentals CORE

- The curriculum was aligned to the Common Career Technical Core Standards for Business Management and Administration and Administrative Support.
- The hours for the Personal Finance unit were changed from 30 to 70.
- The total hours were changed from 230 to 245.

2016 Diesel Service Technician

- The curriculum was aligned to the revised NATEF standards
- Vague competencies were revised or removed
- Unit 6 expanded Auxiliary Components and Systems to: Unit 6 Auxiliary Components-Hydraulic Systems, Theories, and Components and Unit 7: Auxiliary Components-Introductory Truck Brake System and Steering/Suspension
- The curriculum was aligned for the state assessment test and ASE testing

2016 Furniture Design and Manufacturing

- The curriculum was aligned to the Common Career Technical Core Standards for Manufacturing.
- Curriculum name changed from Furniture Manufacturing and Upholstery to Furniture Design and Manufacturing (the CIP code name)
- Four one-Carnegie unit courses were added.
- The units on Furniture Frame Patterns and Layout, Cutting and Assembling Frames, Measure, Layout, and Cut Fabrics, Sewing Procedures, Furniture Upholstering and Special Topics in Furniture Manufacturing & Upholstering were divided into year I and year II units to better reflect when the content is taught.

2016 Horticulture

- The curriculum was aligned to the revised standards
- The unit based on leadership skills was added
- More detail was added concerning specific plants, insects, diseases, weeds, and tools used in the horticulture and landscape industry
- Vague competencies were revised or removed.

2016 Heating, Ventilation, and Air Conditioning (HVAC)

- Industrial Maintenance and HVAC were divided into individual programs
- The division brought clarification to the industry standards
- The curriculum was aligned to the revised standards
- Units on basic refrigeration gauges and sheet metal were added
- Improved alignment for the state assessment test and industry testing

2016 Industrial Maintenance

- Industrial Maintenance and HVAC were divided into individual programs
- The division brought clarification to the industry standards
- The curriculum was aligned to the revised standards
- Included NCCER Core for Year 1
- Units on National Electrical Code, Craft-Related Mathematics, Gaskets and Packing, Conduit Bending, and Electrical Theory were added to Year 2
- Improved alignment for the state assessment test and industry testing

2016 Information Technology

- The Information Technology was revised due to a change in the National Certification Exam that is given to the students at the end of first year. The old test was removed.
- All changes in the first year were made to reflect the new National Certification Exam.
- There were a few wording changes from the old document to the revised document in year 2. These changes did not affect the content contained in the curriculum, but were to eliminate unnecessary wording.
- Units 8 and 9 were swapped in their entirety for teaching purposes.
- The word “Understanding” was removed from the titles in Units 7 and 8.

2016 Management

- The curriculum was aligned to the Common Career Technical Core Standards for Management.
- The unit on Business Procedures was removed from the curriculum
- Units were expanded to include Human Resource Management, Knowledge Management, Financial Analysis, Strategic Management and Business Ownership and Entrepreneurship.
- The total hours were changed from 205 to 220.

2016 Marketing

- The curriculum was aligned to the Common Career Technical Core Standards for Marketing.
- The units on International Marketing, Fashion Marketing, and Sports, Special Events, and Entertainment Marketing were removed.
- A unit on Marketing Information Systems was added.
- The total hours were changed from 235 to 220.

2016 Simulation and Animation Simulation Design

- The curriculum was aligned to the Common Career Technical Core Standards for Arts, Audio-Video Technology, and Communications Career.
- Unit names were revised to better reflect the content in the unit.
- Units on Game Evaluation and Professional Portfolio Development were added.