

**OFFICE OF INSTRUCTIONAL ENHANCEMENT AND INTERNAL OPERATIONS**  
**Summary of State Board of Education Agenda Items**  
**Consent Agenda**  
**January 16-17, 2014**

**OFFICE OF CAREER AND TECHNICAL EDUCATION**

- B. Approval to establish Mississippi Secondary Curriculum Frameworks in Career and Technical Education for (1) Dental Assisting Technology and (2) Sports Medicine

(Has cleared the Administrative Procedures Act process with no public comment)

**Executive Summary**

The following secondary curriculum frameworks are recommended for approval:

1. Dental Assisting Technology
2. Sports Medicine

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
- ❖ CIP Code and CIP Name
- ❖ Course Outline and Codes
- ❖ Curriculum Framework
  - Student Competencies
  - Suggested Student Objectives

Draft curricula for each program were revised and reviewed with input from local district personnel and business/industry collaborators. Approved secondary curricula will be disseminated for implementation in the fall 2014.

NOTE: The Office of Career and Technical Education has provided printed, bound executive summaries of the curriculum frameworks. The detailed documents are available upon request.

Recommendation: Approval

Back-up material attached

# 2014 Dental Assisting Technology

## Mississippi Department of Education



Program CIP: 51.0601 – Dental Assisting/Assistant

Direct inquiries to

Instructional Design Specialist  
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P.O. Drawer DX  
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Office of Career and Technical Education  
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Mississippi State University  
Mississippi State, MS 39762

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Jolanda Harris, Educational Technologist

The Research and Curriculum Unit (RCU), located in Starkville, MS, as part of Mississippi State University, was established to foster educational enhancements and innovations. In keeping with the land grant mission of Mississippi State University, the RCU is dedicated to improving the quality of life for Mississippians. The RCU enhances intellectual and professional development of Mississippi students and educators while applying knowledge and educational research to the lives of the people of the state. The RCU works within the contexts of curriculum development and revision, research, assessment, professional development, and industrial training.

## Preface

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Secondary career and technical education programs in Mississippi face many challenges resulting from sweeping educational reforms at the national and state levels. Schools and teachers are increasingly being held accountable for providing true learning activities to every student in the classroom. This accountability is measured through increased requirements for mastery and attainment of competency as documented through both formative and summative assessments.

The courses in this document reflect the statutory requirements as found in Section 37-3-49, Mississippi Code of 1972, as amended (Section 37-3-46). In addition, this curriculum reflects guidelines imposed by federal and state mandates (Laws, 1988, ch. 487, §14; Laws, 1991, ch. 423, §1; Laws, 1992, ch. 519, §4 eff. from and after July 1, 1992; Carl D. Perkins Vocational Education Act IV, 2007; and No Child Left Behind Act of 2001).

### **Pathway Description**

The Dental Assisting Technology pathway is a curriculum that provides an educational option for students who have successfully completed the Health Sciences Core (2 Carnegie credits). The Dental Assisting Technology curriculum is a program of study designed to prepare the student for employment in the dental assisting field and continued education at the postsecondary level. The curriculum introduces students to other career opportunities available in the field of dentistry. The competencies for this course follow the duties and responsibilities of a dental assistant as outlined by the Mississippi State Board of Dentistry.

### **Industry Certification**

Industry standards are based on the *Dental Assisting National Board (DANB) Certified Dental Assistant Examination Topics*. The Certified Dental Assistant certification is awarded upon completion of all three components of the DANB's CDA<sup>®</sup> exam.

### **Assessment**

The latest assessment blueprint for the curriculum can be found at <http://www.rcu.msstate.edu/Curriculum/CurriculumDownload.aspx>

### **Student Prerequisites**

In order for students to be able to experience success in the Dental Assisting Technology program, the following student prerequisites are suggested:

1. C or higher in English (the previous year)
2. C or higher in Math (last course taken or the instructor can specify the math)
3. C or higher in specified science course approved by the instructor

**Or**

## 1. Instructor Approval

### **Teacher Licensure**

*The latest teacher licensure information can be found at*

<http://www.mde.k12.ms.us/educator-licensure>

### **Professional Learning**

If you have specific questions about the content of any training session provided, please contact the Research and Curriculum Unit at 662.325.2510, and ask for a professional learning specialist.

## Course Outlines

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### Option 1—One-Two Carnegie-Unit Courses

This curriculum consists of one 2-credit course, which should be taken after successfully completing of the core course, Health Sciences (Core) (2 Carnegie units):

#### **Dental Assisting Technology— Course Code: 995300**

#### **Course Description: Dental Assisting Technology**

The Dental Assisting Technology course introduces students to the theory and practical applications of tasks related to employment in a dental office. Students will cover topics such as chairside assisting, infection control, hazardous materials management, and patient care. The course offers insight into a career in the dental profession including educational requirements, professional, legal, and ethical responsibilities of a dental assistant. Other topics include handling dental materials and equipment and basic dental procedures.

#### **Course Name: Dental Assisting Technology— Course Code: 995300**

Unit	Unit Name	Hours
1	Dental Orientation	15
2	Dental Assisting Materials	60
3	Dental Science I	55
4	Chairside Assisting I	75
5 or 6	Clinical I or II	30 - 75
Total		230 - 280

# 2014 Sports Medicine

## Mississippi Department of Education



Program CIP: 51.0913 – (Athletic Training/Trainer)

Direct inquiries to

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### **Pathway Description**

The Sports Medicine pathway is a curriculum that provides an educational option for students who have successfully completed the Health Sciences Core (2 Carnegie credits). 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 learn about the types of injuries that can occur and also be introduced to the emergency services associated with injuries in sports. Additionally, students will focus on rehabilitation settings and techniques to help a patient recover from sports injuries. The program offers students the opportunity to examine different careers associated with sports medicine along with workplace and employability skills associated with the sports medicine professions.

### **Industry Certification**

Competencies and suggested performance indicators in the *Sports Medicine* course have been correlated to the Health Sciences Career Cluster Content Standards that have been reviewed and endorsed at the national level by the National Council on Health Sciences.

### **Assessment**

The latest assessment blueprint for the curriculum can be found at <http://www.rcu.msstate.edu/Curriculum/CurriculumDownload.aspx>

### **Student Prerequisites**

In order for students to be able to experience success in the Sports Medicine program, the following student prerequisites are suggested:

1. C or higher in English (the previous year)
  2. C or higher in Math (last course taken or the instructor can specify the math)
  3. C or higher in specified science course approved by the instructor
- or**
4. Instructor Approval

### **Teacher Licensure**

The latest teacher licensure information can be found at

<http://www.mde.k12.ms.us/educator-licensure>

### **Professional Learning**

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**Option 1—Two One-Carnegie-Unit Courses**

This curriculum consists of two one-credit courses, which should be completed in the following sequence after completion of the core course, Health Sciences (Core) (2 Carnegie units):

- 1. Sports Medicine: Theory and Application I—Course Code: 995202**
- 2. Sports Medicine: Theory and Application II —Course Code: 995203**

**Course Description: Sports Medicine: Theory and Application I**

The Sports Medicine: Theory and Application I course provides a foundation for careers in sports medicine fields. An emphasis is placed on students learning about healthcare administration, the athletic and sports medicine team, and medical emergencies as well as first aid, and CPR. The students will be introduced to sports equipment, protective gear, and bandaging, wrapping and taping techniques. Additional topics include therapeutic modalities, exercise in rehabilitation, and pharmacology in sports.

**Course Description: Sports Medicine: Theory and Application II**

The Sports Medicine: Theory and Application II course helps the student investigate medical aspects of sports medicine as a career choice. It covers injuries that may occur from different types of sports including injuries to the head, spine, chest, abdomen, upper extremities, and lower extremities. This course also examines the skills necessary in emergency medical response.

**Sports Medicine: Theory and Application I — Course Code: 995202**

Unit	Unit Name	Hours
1	Orientation (Reinforcement and Review)	5
2	The Sports Medicine Team and Health Care Administration	30
3	Assessment and Evaluation of Injuries and Emergencies	30
4	Protective Equipment and Techniques	20
5	Nutrition in Sports	10
6	Pharmacology and Drugs in Sports	10

Total		105
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**Sports Medicine: Theory and Application II — Course Code: 995203**

Unit	Unit Name	Hours
7	Physical Fitness Conditioning and Assessment	20
8	Therapeutic Rehabilitation and Modalities	40
9	Injuries to the Head, Spine, Chest, and Abdomen	25
10	Injuries to the Upper and Lower Extremities	20
Total		105

**Option 2—One, Two-Carnegie-Unit Course**

This curriculum consists of the following 2-Carnegie-unit course, which should be taken after completion of the core course, Health Sciences (Core) (2 Carnegie units):

**1. Sports Medicine —Course Code: 995200**

**Course Description: Sports Medicine**

The Sports Medicine course establishes insight into careers in sports medicine. It covers healthcare administration, the athletic and sports medicine team, and medical emergencies such as first aid and CPR. The students are introduced to sports equipment, protective gear, bandaging, wrapping, and taping injuries. Additional topics include therapeutic modalities, exercise rehabilitation, and pharmacology. Students will gain useful information about injuries that may occur from different types of sports, including injuries to the head, spine, chest, abdomen, as well as upper and lower extremities. It will also examine the skills necessary for emergency medical response.

**Sports Medicine—Course Code: 995200**

Unit	Unit Name	Hours
1	Orientation (Reinforcement and Review)	5
2	The Sports Medicine Team and Health Care Administration	30
3	Assessment and Evaluation of Injuries and Emergencies	30
4	Protective Equipment and Techniques	20
5	Nutrition in Sports	10
6	Pharmacology and Drugs in Sports	10
7	Physical Fitness Conditioning and Assessment	20
8	Therapeutic Rehabilitation and Modalities	40

9	Injuries to the Head, Spine, Chest, and Abdomen	25
10	Injuries to the Upper and Lower Extremities	20
Total		210