

**OFFICE OF INSTRUCTIONAL ENHANCEMENT AND INTERNAL OPERATIONS**  
**Summary of State Board of Education Agenda Items**  
**March 20-21, 2014**

**OFFICE OF CAREER AND TECHNICAL EDUCATION**

07. Approval to begin the Administrative Procedures Act process: To establish the Mississippi Secondary Curriculum Frameworks in Career and Technical Education for Healthcare and Clinical Services

**Executive Summary**

The Healthcare and Clinical Services secondary curriculum framework is recommended for approval:

The curriculum framework is designed to provide local programs with an instructional foundation that can be used to develop localized instructional management plans and course syllabi. Additionally, the framework includes the following elements for the secondary curriculum:

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

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

NOTE: The Office of Career and Technical Education has provided a printed, bound executive summary of the curriculum framework. The detailed document is available upon request.

Recommendation: Approval

Back-up material attached

# 2014 Healthcare and Clinical Services



Mississippi Department of Education

Program Code 51.0000 – Health Services/Allied Health/Health Sciences, General.

Direct inquiries to

Instructional Design Specialist  
Research and Curriculum Unit  
P.O. Drawer DX  
Mississippi State, MS 39762  
662.325.2510

Program Coordinator  
Office of Career and Technical Education  
Mississippi Department of Education  
P.O. Box 771  
Jackson, MS 39205  
601.359.3461

Published by

Office of Career and Technical Education  
Mississippi Department of Education  
Jackson, MS 39205

Research and Curriculum Unit  
Mississippi State University  
Mississippi State, MS 39762

Betsey Smith, Curriculum Manager  
Scott Kolle, Project Manager  
Jolanda Harris, Educational Technology Specialist

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

---

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**

Healthcare and Clinical Services (HCCS) is a pathway of courses for students in the Health Sciences career cluster. The HCCS pathway includes classroom and hands-on experiences that will provide students with an overview of the health-care field, as outlined according to the Health Science Cluster in the National Career Clusters Framework and the National Consortium on Health Science Education (NCHSE), as well as begin to prepare students for careers in occupations predicted to have a high number of available jobs in the next 10 years, including careers in nursing services (registered nurse, nurse aide, practical nurse, home health aide), therapeutic services (sports medicine, athletic trainer, dietitian, respiratory therapist), diagnostic services (radiologist, phlebotomist, radiologic tech, sonographer, CT technician, medical lab technician), health informatics (health information technician, medical coder), veterinary services, medical services (optometrist, medical assistant), emergency services, rehabilitative services (physical therapist, occupational therapist, speech therapist) counselors, pharmacists, mental health services (psychologists).

Scheduling and operating more than one course in the same classroom/laboratory with the same teacher is not recommended. In order to enable the teacher to instruct students in skills on a one-on-one basis, the recommended class size is 12-15 students for the first two credits. For students taking the last two credits who are job shadowing, the recommended class size is 10 - 12 students. Please be aware that health care facilities often require a 10 to one student/teacher ratio in order to participate in job shadowing. Having a class that is too large decreases the quality experience that Healthcare and Clinical Services is meant to be for the student.

This program includes a minimum of 100 hours of clinical-type experience to be obtained by the program's completion. It is recommended to spread these hours out among the length of the program. This clinical-type experience can include: tours of health-care facilities, guest speakers, participation in health fairs or community service, laboratory practice, demonstration in the classroom, and observation or job shadowing experiences in medical facilities.

### **Industry Certification**

By implementing the standards set forth in the Healthcare and Clinical Services pathway, students who successfully master the curriculum should have the necessary skills to take the National Health Science Assessment, which is based on industry-validated performance indicators. In addition, students whose programs meet additional criteria and approval by their respective agencies are prepared to complete the requirements and take the certification test to become a certified nurse aide through a certified nurse aide registry-approved site.

### **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 Healthcare and Clinical Services pathway, the following prerequisites are suggested:

1. Completion of the Health Sciences (Core)
2. C or higher in English (the previous year)
3. C or higher in math (last course taken, or the instructor can specify the math)
4. Instructor approval and a TABE Reading Score of eighth grade or higher
5. C or higher in biology (or the last course taken as approved by instructor)

**or**

1. TABE Reading Score of eighth grade or higher
2. Instructor approval

**or**

1. Instructor approval

### **Academic Credit**

The latest academic credit information can be found at

<https://www.rcu.msstate.edu/MDE/PathwaystoSuccess.aspx>. Once there, click the “*Counselor Resources*” Tab, then click “*Curriculum Enhancement List.*” Check this site often as it is updated frequently.

### **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 of training sessions provided, please contact the Research and Curriculum Unit at 662.325.2510 and ask for an instructional design specialist.

## Course Outlines

---

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

This curriculum consists of two one-credit courses, which should be completed in the following sequence:

1. **Healthcare and Clinical Services I—Course Code: 995104**
2. **Healthcare and Clinical Services II—Course Code: 995105**

#### Course Description: Healthcare and Clinical Services I

The Health Specialties course helps the student establish an understanding of specialty areas within the health care field. Students will be exposed to the theory and application related to careers within health care. This course covers topics such as emergency services, technical skills, and human growth and development. Also covered in this course are rehabilitative services, safety, and employability.

#### Course Description: Healthcare and Clinical Services II

The Direct Care course will allow students to investigate direct care as a career choice. Students will have the opportunity to discover information about pharmacological and diagnostic services and therapeutic services. This course covers medical and nursing services as well as information technology and health informatics.

#### Course Name: Healthcare and Clinical Services I — Course Code: 995104

Unit	Unit Name	Hours
1	Course Orientation, Safety Review, Clinical Policies, and Employability	25
2	Emergency Services and Technical Skills	60
3	Human Growth and Development	25
4	Rehabilitative Services	30
Total		140

#### Course Name: Healthcare and Clinical Services II— Course Code: 995105

Unit	Unit Name	Hours
5	Medical and Nursing Services	50
6	Therapeutic Services	30
7	Pharmacological and Diagnostic Services	40
8	Information Technology, and Health Informatics	20
Total		140

## Option 2—One Two-Carnegie-Unit Courses

This curriculum consists of one two-credit course, which should be completed in the following sequence:

### Healthcare and Clinical Services— Course Code: 995101

#### Course Description: Healthcare and Clinical Services

The Healthcare and Clinical Services course helps the student establish insight in the healthcare field. Students will be exposed to the theory and applied tasks related to careers within health care. This course covers topics such as human growth and development, health informatics, information technology, and therapeutic and rehabilitative services. Other topics include medical and emergency services, mental health, and pharmacological and nursing services.

#### Course Name: Healthcare and Clinical Services — Course Code: 995101

Unit	Unit Name	Hours
1	Course Orientation, Safety Review, Clinical Policies, and Employability	25
2	Emergency Services and Technical Skills	60
3	Human Growth and Development	25
4	Rehabilitative Services	30
5	Medical and Nursing Services	50
6	Therapeutic Services	30
7	Pharmacological and Diagnostic Services	40
8	Information Technology, and Health Informatics	20
Total		280