

# Minnesota State College Southeast

## MEDL 1100: Introduction to Laboratory Sciences

### A. COURSE DESCRIPTION

Credits: 2

Lecture Hours/Week: 1

Lab Hours/Week: 2

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course introduces students to the Clinical Laboratory and the role of the Phlebotomist, Medical Laboratory Technician, and Medical Laboratory Scientist. Students will learn about educational requirements, employment opportunities, certification, licensure, regulation and professional and patient code of ethics. Topics include medical terminology, laboratory safety, standard precautions, quality assurance, laboratory math and basic laboratory skills. Students will perform simple laboratory tests. (Prerequisites: None) (2 credits: 1 lecture/1 lab)

**B. COURSE EFFECTIVE DATES:** 05/07/2012 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Examine the fundamentals of techniques used throughout the discipline of clinical laboratory science
2. Demonstrate comprehension of the technical and procedural aspects of CLIA waived point of care tests
3. Exhibit an awareness of regulatory requirements, safety regulation and ethical standards of practice
4. Perform CLIA waived point of care testing
5. Perform information processing

#### **D. LEARNING OUTCOMES (General)**

1. Describe the regulation, organization and function of the clinical laboratory
2. List the qualifications, job functions and ethical responsibilities of clinical laboratory personnel
3. Identify and define selected abbreviations and acronyms commonly used in the clinical laboratory
4. Identify, define and use medical terminology applicable to clinical laboratory procedures and practices
5. Describe and adhere to laboratory safety rules that must be followed to guard against chemical, physical and biological hazards
6. Identify common types of labware and demonstrate their correct uses
7. Identify and demonstrate safe use of general laboratory equipment
8. Use the metric system to perform measurements and calculations
9. Use laboratory math to prepare simple laboratory reagents
10. Explain the importance and use of quality control and quality assessment programs in the clinical laboratory
11. Describe overall product and functions of laboratory information systems
12. Define the abbreviation HIPPA and explain the major points of the legislation
13. List the major benefits of laboratory automation
14. Perform and interpret waived testing results
15. Adhere to and practice safety and regulatory requirements in the clinical laboratory

#### **E. Minnesota Transfer Curriculum Goal Area(s) and Competencies**

None

#### **F. LEARNER OUTCOMES ASSESSMENT**

As noted on course syllabus

#### **G. SPECIAL INFORMATION**

None noted