Course Syllabus

MLAB 1201- Intro to Clinical Lab Science

Revision Date: August 13, 2015

Catalog Description: An introduction to medical laboratory science, structure, equipment and philosophy.

Lecture hours = 2, Lab hours = 0

Prerequisites: None

Semester Credit Hours: 2
Lecture Hours per Week: 2
Lab Hours per Week: 0
Contact Hours per Semester: 0

State Approval Code: 5110040000

Instructional Goals and Purposes:
Panola College's instructional goals include 1) creating an academic atmosphere in which students may develop their intellects and skills and 2) providing courses so students may receive a certificate/an associate degree or transfer to a senior institution that offers baccalaureate degrees.

Rationale/Introduction: An introduction to clinical laboratory science, including quality control, laboratory math, safety, laboratory equipment, laboratory settings, accreditation, certification, professionalism and ethics.

Course Instructional Goals and Purposes: To introduce students to the proper technique and standard precautions.. To emphasize to students the importance of proper collection for specimen and test result integrity.

Learning Objectives:

1. Demonstrate laboratory safety
2. Perform laboratory math
3. Describe quality control
4. Describe and understand the use of laboratory equipment
5. Explain accreditation and certification.
6. Specific Learning/behavioral objectives for each module

*Specific Objectives are given in online course.

**Specific Course Objectives (Includes SCANS Information):**
Recently the U.S. Department of Labor established the Secretary’s Commission on Achieving Necessary Skills (SCANS) to examine the demands of the workplace and whether the nation’s students are capable of meeting those demands. The Commission determined that today’s jobs generally require competencies in the following areas.

1. Perform basic laboratory calculations.
   **SCANS: Technician, Basic Skills - Math**

2. Discuss quality assurance and safety procedures.
   **SCANS: Thinking Skills, Systems, Basic Skills - Math**

3. Select, use and dispose of appropriate lab ware.
   **SCANS: Technician, Thinking Skills**

4. Explain the use and maintenance of basic laboratory instruments.
   **SCANS: Technician, Thinking Skills, Systems**

5. Prepare reagents, solutions and controls.
   **SCANS: Resources, Technician, Basic Skills - Math**

6. Discuss professional ethics, attitude, appearance, laboratory performance and integrity.
   **SCANS: Personal Qualities, Interpersonal Skills, Basic Skills - Speaking, Listening**

7. Describe the function of the laboratory, the laboratory departments and personnel in the health care system.
   **SCANS: Systems, Thinking Skills, Interpersonal Skills**

8. Review medical terminology.
   **SCANS: Basic Skills - Reading, Writing, Listening**

**Course Grade**

- Major Exams 50%
- Quizzes 15%
- Homework Assignments 20%
- Final Exam 15%
Methods of Evaluation:
This is a mainly online course so it will require a lot of outside proactive work by the student. The instructor will provide guidance as needed. The student will be evaluated by assignments, quizzes outside of the classroom. The student will be required to come to a Panola College testing Center to take all major examinations.

Texts, Required Readings, Materials, and Supplies
For current texts and materials, use the following link to access bookstore listings: http://www.panolacollegestore.com

Required:

Calculator

Suggested: Medical Dictionary

Academic Dishonesty
Under no circumstances shall a student submit work that is not their own. Copying answers for study questions, cheating on exams and/or submitting laboratory results which are not your own are expressly prohibited.

Time Commitment
According to “Hints on How to Succeed in College Classes” http://tinyurl.com/3dqegz you should budget your time per week for this four hour credit course as follows:
1. Reading assigned text 2 to 3 hours
2. Homework assignments 3 to 6 hours
3. Time for review and test preparation 3 hours
4. Total study time per week 9 to 13 hours PER WEEK

OTHER:
- For testing services, use the following link: http://www.panola.edu/elearning/testing.html
- If any student in this class has special classroom or testing needs because of a physical learning or emotional condition, please contact the ADA Student Coordinator in Support Services located in the Administration Building or go to http://www.panola.edu/student-success/disability-support-services/ for more information.
- Withdrawing from a course is the student’s responsibility. Students who do not attend class and who do not withdraw will receive the grade earned for the course.