

SPRINGFIELD TECHNICAL COMMUNITY COLLEGE  
ACADEMIC AFFAIRS

Course Number: SMC-180 & SMC180L Class/Lect. Hours: 3 Lab Hours: 4 Credits: 3 & 2 Dept.: SIMS MEDICAL CENTER  
Course Title: Phlebotomy Technician Semester: Fall Year: 2019

**Course Description, Prerequisite, Corequisite:**

An overview and introduction of basic skills as used in specimen handling and phlebotomy. This course is designed to prepare an individual to perform venipuncture and capillary puncture in order to obtain blood specimens for diagnostic procedures. The course will include anatomy and physiology of the circulatory system, safety considerations, confidentiality, communication, quality control, collection, transport and processing of all specimens types received in the clinical laboratory. Three Lecture Hours/Week for SMC 180 and Four Lab hours week for SMC 180L in the traditional 15 week semester.

**PREREQUISITE:**

High school diploma or G.E.D. Current health insurance. Have a valid email address and regular access to a computer. Current CPR Certification. CORI/SORI Verification. Be 18 years of age. Be of good mental and physical health and be able to lift and carry 100 to 150 pounds. Be a U.S. Citizen or have a legal right to work in the U.S. Current Medical Liability Insurance (submitted after acceptance into program). 11 Panel Urine Drug Screen- Negative within nine months from the start of class, may be subject to additional screenings during course. Completion of physical examination and college health requirements including documentation of required vaccinations.  
Medical Laboratory Safety,

A \$200 Health fee will be charged to students who enroll in this course (this fee is in addition to the per-credit tuition and fees).

COREQUISITE: SMC 180L and SMC 185

**OBJECTIVES/COMPETENCIES**

Course Objectives	Competencies

Student will define the purpose and skills required and list all safety procedures observed in the practices of phlebotomy.

Define phlebotomy and describe phlebotomy services.  
Explain the role and responsibilities of the phlebotomist.  
List the professional competencies for phlebotomists.  
List the skills necessary for effective communications.  
Describe basic principles of quality and give examples of quality assessments for phlebotomy.  
Paraphrase the importance of safety in phlebotomy and list all areas of phlebotomy where safety is used.  
Apply the OSHA Blood-borne Pathogens standard to use in phlebotomy.  
Describe safety equipment and practices used in phlebotomy.  
Identify risk associated with phlebotomy and patient testing.  
Explain risk management as it applies to phlebotomy procedures.

Student will describe the components Cardiovascular system and blood as it relates to the practice of phlebotomy.

Describe the basic function of the cardiovascular system.  
Distinguish the characteristics of arterial, venous and capillary blood and vessels.  
Name and locate the veins most commonly used for phlebotomy.  
List the components of blood.  
Identify the functions of blood cells and platelets.  
Explain the difference between serum and plasma.

Student will describe the practice, importance and demonstrate proper performance of phlebotomy specimen documentation, handling and transportation.

Describe the importance of proper patient identification.  
List methods of proper patient identification.  
Describe the essential elements in completing a requisitions form.  
Interpret a specimen requirement as written in standard operating procedure format.  
Describe the requirements of specimen collection as it relates to timed and fasting specimens.

List and explain the impact of improper specimen collection.

Student will identify, describe function and properly use basic blood collection equipment.

Describe proper specimen labeling procedures.  
Interpret computer generated labels.  
List the basic specimen handling guidelines for maintaining specimen integrity.  
Describe which blood constituents are photosensitive or thermolabile.  
Name three methods commonly used to transport specimens.  
List reason for specimen rejection.

Describe the latest phlebotomy safety supplies and equipment and state the use of each.

Identify the various supplies that should be carried on a specimen collection tray when a skin puncture specimen must be collected.

Identify the types of venipuncture tubes and define the purpose and use of the additives/anticoagulants.