

Course Outline of Record

1. Course Code: HS-083B
2.
  - a. Long Course Title: Advanced Phlebotomy
  - b. Short Course Title: ADVANCED PHLEBOTOMY
3.
  - a. Catalog Course Description:
 

The course will prepare students to perform advanced blood collection methods using appropriate techniques. Through lecture and lab experiences, students will receive training in infection prevention, proper labeling of specimens, and quality assurance. Students will be taught advanced specimen handling, arterial puncture blood cultures and special processing. The course will be educated in the agencies that regulate phlebotomy.
  - b. Class Schedule Course Description:
 

The course will prepare students to perform advanced blood collection methods using appropriate techniques. Students will be taught specimen collection, handling, and processing.
  - c. Semester Cycle (if applicable): N/A
  - d. Name of Approved Program(s):
    - HEALTH SCIENCE AS Degree and Transfer Preparation
4. Total Units: 1.50      Total Semester Hrs: 45.00  
 Lecture Units: 1      Semester Lecture Hrs: 18.00  
 Lab Units: 0.5      Semester Lab Hrs: 27.00  
 Class Size Maximum: 20      Allow Audit: No  
 Repeatability No Repeats Allowed  
 Justification 0
5. Prerequisite or Corequisite Courses or Advisories:
 

*Course with requisite(s) and/or advisory is required to complete Content Review Matrix (CCForm I-A)*

 Prerequisite: HS 083A or  
 Prerequisite: HS 083
6. Textbooks, Required Reading or Software: (List in APA or MLA format.)
  - a. Tankersley, C., McCall, R. (2012). *Phlebotomy Essentials* (5th/e). Philadelphia Lippincott. ISBN: 1397816054763  
 College Level: No  
 Flesch-Kincaid reading level: 10
7. Entrance Skills: *Before entering the course students must be able:*
  - a.  
 Explain basic anatomy and physiology of the circulatory system.
    - HS 083A - Explain basic anatomy and physiology of the circulatory system.
    - HS 083 - Explain basic anatomy and physiology of the circulatory system.
  - b.  
 Explain the role of the phlebotomy technician in the health care delivery system.
    - HS 083 - Explain the role of the phlebotomy technician in the health care delivery system.
    - HS 083A - Explain the role of the phlebotomy technician in the health care delivery system.
  - c.  
 Define “standard precautions” and apply its principles to all procedures

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- HS 083 - Define “standard precautions” and apply its principles to all procedures.
- HS 083A - Define “standard precautions” and apply its principles to all procedures.

d.

Describe proper bedside manner and how to prepare the client for venipuncture collection.

- HS 083 - Describe proper bedside manner and how to prepare the client for venipuncture collection.
- HS 083A - Describe proper bedside manner and how to prepare the client for venipuncture collection.

e.

Identify locations on the human body appropriate for venipuncture collection

- HS 083 - Identify locations on the human body appropriate for venipuncture collection.
- HS 083A - Identify locations on the human body appropriate for venipuncture collection.

f.

Perform venipuncture by sterile needle and syringe, butterfly or the vacuum method

- HS 083 - Perform venipuncture by sterile needle and syringe, butterfly or the vacuum method.
- HS 083A - Perform venipuncture by sterile needle and syringe, butterfly or the vacuum method.

### 8. Course Content and Scope:

Lecture:

Physiology of hemostasis and coagulation.  
Locations on the human body appropriate for venipuncture, arterial and capillary collection.  
Isolation precautions and its principles to all procedures.  
Equipment used in advanced phlebotomy.  
The role of quality assurance in the practice of phlebotomy  
Potential risks and complications of the venipuncture procedure and sources of specimen error.

Lab: *(if the "Lab Hours" is greater than zero this is required)*

Prepare advanced specimens for the laboratory,  
Perform arterial puncture  
Demonstrate proper bedside manner and how to prepare the client of all ages for advanced venipuncture .  
Perform skin punctures to obtain capillary blood specimens.  
Demonstrate how to handle errors and complicated blood draws.  
Outline post-puncture care of the client of the at risk patient.

### 9. Course Student Learning Outcomes:

1.

Explain the role of the phlebotomy technician in the health care delivery system and the health regulatory standards guiding the practice for a phlebotomy technician

2.

Demonstrate safe phlebotomy practices for the collection and preparation of advanced blood specimens

### 10. Course Objectives: *Upon completion of this course, students will be able to:*

- a. List methods of client and specimen identification for advanced specimen.
- b. Describe how to prepare the complex client for venipuncture collection.
- c. Identify locations on the human body appropriate for venipuncture and arterial collection.
- d. List the different colors used to code blood specimens and what they stand for.
- e. Demonstrate how to dispense blood into tubes including blood cultures and blood gasses following collection.

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- f. Outline post-arterial puncture care of the client.
- g. List potential pre-analytical sources of specimen error.
- h. Explain the potential risks and complications of the venipuncture procedure
- i. Describe the role of quality assurance in the practice of phlebotomy.

11. Methods of Instruction: *(Integration: Elements should validate parallel course outline elements)*

- a. Demonstration, Repetition/Practice
- b. Discussion
- c. Lecture
- d. Observation
- e. Participation

12. Assignments: *(List samples of specific activities/assignments students are expected to complete both in and outside of class.)*

In Class Hours: 45.00

Outside Class Hours: 36.00

a. Out-of-class Assignments

Reading assignment from text  
Practice locating on the human body sites appropriate for venipuncture and arterial collection  
Complete take home assignments.

b. In-class Assignments

Lecture on the following topics with:  
Review of physiology of hemostasis and coagulation.  
Lecture on isolation precautions and its principles to all procedures.  
Review of the potential risks and complications of the venipuncture procedure and sources of specimen error.  
In lab practice:  
Use of equipment used in advanced phlebotomy  
Locations on the human body appropriate for venipuncture and arterial collection

13. Methods of Evaluating Student Progress: *The student will demonstrate proficiency by:*

- Laboratory projects
- Presentations/student demonstration observations
- True/false/multiple choice examinations

14. Methods of Evaluating: Additional Assessment Information:

15. Need/Purpose/Rationale -- *All courses must meet one or more CCC missions.*

PO - Career and Technical Education

- Fulfill the requirements for an entry- level position in their field.
- Apply critical thinking skills to execute daily duties in their area of employment.
- Display the skills and aptitude necessary to pass certification exams in their field.
- Exhibit effective written, oral communication and interpersonal skills.

IO - Personal and Professional Development

- Self-evaluate knowledge, skills, and abilities.
- Develop realistic goals.
- Display habits of intellectual exploration, personal responsibility, and physical well being.
- Demonstrate an understanding of ethical issues to make sound judgments and decisions.
- Value diverse cultures and populations.
- Value the feedback of others.

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## 16. Comparable Transfer Course

University System	Campus	Course Number	Course Title	Catalog Year
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## 17. Special Materials and/or Equipment Required of Students:

Lab kit:

Must have kit from HS 083 or HS 083A If the does not have the equipment students will have to purchase the equipment prior to beginning the lab portion of class.

## 18. Materials Fees: Required Material?

Material or Item	Cost Per Unit	Total Cost
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## 19. Provide Reasons for the Substantial Modifications or New Course:

2-year periodic review.

20. a. Cross-Listed Course (*Enter Course Code*): *N/A*  
 b. Replacement Course (*Enter original Course Code*): *N/A*

## 21. Grading Method (*choose one*): Letter Grade Only

## 22. MIS Course Data Elements

- a. Course Control Number [CB00]: CCC000560568  
 b. T.O.P. Code [CB03]: 129900.00 - Other Health Occupations  
 c. Credit Status [CB04]: D - Credit - Degree Applicable  
 d. Course Transfer Status [CB05]: C = Non-Transferable  
 e. Basic Skills Status [CB08]: 2N = Not basic skills course  
 f. Vocational Status [CB09]: Clearly Occupational  
 g. Course Classification [CB11]: Y - Credit Course  
 h. Special Class Status [CB13]: N - Not Special  
 i. Course CAN Code [CB14]: *N/A*  
 j. Course Prior to College Level [CB21]: Y = Not Applicable  
 k. Course Noncredit Category [CB22]: Y - Not Applicable  
 l. Funding Agency Category [CB23]: Y = Not Applicable  
 m. Program Status [CB24]: 2 = Stand-alone

Name of Approved Program (*if program-applicable*): HEALTH SCIENCE

*Attach listings of Degree and/or Certificate Programs showing this course as a required or a restricted elective.)*

## 23. Enrollment - Estimate Enrollment

First Year: 20  
 Third Year: 40

## 24. Resources - Faculty - Discipline and Other Qualifications:

- a. Sufficient Faculty Resources: Yes  
 b. If No, list number of FTE needed to offer this course: *N/A*

## 25. Additional Equipment and/or Supplies Needed and Source of Funding.

N/A

## 26. Additional Construction or Modification of Existing Classroom Space Needed. (*Explain:*)

N/A

## 27. FOR NEW OR SUBSTANTIALLY MODIFIED COURSES

Library and/or Learning Resources Present in the Collection are Sufficient to Meet the Need of the Students Enrolled in the Course: Yes

28. Originator Monica Camargo Origination Date 03/02/17