Prepared by the Department of Health Sciences
Date of Departmental Approval: February 13, 2009
Date approved by Curriculum and Programs: February 23, 2009 Effective: Fall 2009

1. **Course Number: DTC104**
   Course Title: Fundamentals of Phlebotomy

2. **Description:** This course is a combination of lecture and lab which presents the theory, application and procedures of phlebotomy skills. Students obtain knowledge of specific anatomy, safety, quality control, Point of Care Testing, and processing of specimens. Applicants must attend an information session and advising session prior to admission.

3. **Student Learning Outcomes (instructional objectives: intellectual skills):**
   Upon successful completion of this course, students are able to do the following:
   - Demonstrate knowledge of related anatomy and physiology
   - Apply principles of safety, infection control and quality control
   - Discuss legal and ethical implications of phlebotomy
   - Demonstrate proficiency in performance of the skills required of phlebotomists
   - Communicate in a caring, professional and respectful manner

4. **Credits:** 6 credits

5. **Satisfies General Education Requirement:** No

6. **Prerequisite:** None

7. **Semester(s) Offered:** Fall, Spring

8. **Suggested General Guidelines for Evaluation:** Acquired knowledge and proficiency is evaluated through written tests and skills assessment. An academic grade of at least 75% and demonstrated competence in lab skills is required to continue on to the practicum course.

9. **General Topical Outline (Optional):** Attached

DTC104. Fundamentals of Phlebotomy
Content Outline

1. Phlebotomy Didactic Curriculum Content

I. Introduction to Phlebotomy
- A. Health care delivery systems
- B. Health care team
- C. Medical laboratory personnel
- D. Caring and respectful communication to all co-workers and patients

II. Anatomy & Physiology
- A. Body Systems
- B. Cardiovascular/Circulatory System
- C. Blood Composition

III. Specimen Collection
- A. Equipment
- B. Patient ID and labeling
- C. Venipuncture Procedures
- D. Skin Puncture Procedures
- E. Complications

IV. Challenges in Phlebotomy/Special Procedures
- A. Infants and Children
- B. Arterial punctures
- C. Venous lines
- D. Point of care testing (POCT)
- E. Other specimen types/collection

V. Requisitioning, Specimen Transport and Processing
- A. Special Requirements
- B. Modes of Transporting Specimens
- C. Processing

VI. Safety
- A. Infection Control
  - 1. Isolation
  - 2. Universal Precautions
- B. OSHA Guidelines
- C. Protective Equipment
- D. Biohazardous Waste Disposal

VII. Quality Assurance Issues

VIII Professionalism
- A. Interpersonal Relationships
- B. Patient Rights
- C. Ethical Issues
- D. Legal Implications

2. <u>On-campus Laboratory Practice of Phlebotomy Skills</u>

Integrated with classroom instruction
Proficiency in the performance of laboratory skills is determined using specific competency criteria.