COMMON COURSE OUTLINE: Course discipline/number/title: HCCC 1120: Advanced Phlebotomy Techniques

A. CATALOG DESCRIPTION
1. Credits: 2
2. Hours/Week: 1 lecture and 2 lab
3. Prerequisites (Course discipline/number): None
4. Co-requisites (Course discipline/number): None
5. MnTC Goals (if any): NA

This course will focus on continued skill development and knowledge, in the areas of special blood specimen collection (pediatric, blood cultures, arterial specimens, etc), sample preparation, and laboratory safety. The class includes hands-on phlebotomy skill development with student laboratory partners through venipuncture and skin puncture (capillary) sampling methods as well as demonstrations/simulations. An overview of point-of-care testing and IV placement is presented in preparation for hands-on instruction and practice in the clinical setting during Phlebotomy Clinical Practice. RECOMMENDED ENTRY SKILLS/KNOWLEDGE: High School Diploma.

B. DATE LAST REVISED (Month, year): November, 2001

C. OUTLINE OF MAJOR CONTENT AREAS:
1. Review of the Venipuncture and Skin Puncture Procedures
2. The pediatric Phlebotomy
3. Slide Preparation Theory of Differential
4. Blood Culture Theory and Collection Techniques
5. Blood Banking and Transfusion Medicine Collection
6. Elderly, Home and Long-term Care Collections
7. Urine and other Body Fluid Collections and Transport
8. Special Collections:
   a) Arms wit IV running
   b) Arterial line draws
   c) IVAD accessing
   d) Timed testing
   e) Therapeutic drug monitoring
   f) Trace metal collection
9. Point of Care Overview (Hospital Bedside Testing)
   a) Glucose testing
10. Communication and Professionalism in the Health Care Setting
11. Customer Service

D. LEARNING OUTCOMES (GENERAL): The student will be able to:
1. Describe and demonstrate proper execution of the venipuncture and capillary sampling techniques according to NCCLS Standards.
2. Describe causes of phlebotomy complications and methods to avoid these complications.
3. Describe signs and symptoms of physical problems or patient discomfort that may occur during sample collection and methods to avoid these problems.
4. Describe sources of error in technique, interfering substances in the clinical analysis or other factors resulting in the recollection or rejection of a patient’s sample or reporting of an erroneous laboratory result.
5. Describe the purpose of and satisfactory perform basic techniques of specimen processing, referral and transport.
6. Describe the purpose and techniques of special phlebotomy procedures:
   a) Blood cultures
   b) Bleeding times
   c) Point-of-care testing
   d) Arterial collection
   e) Peripheral arterial line collection
   f) IVAD accessing
   g) Specimen collection for legal purposes
D. LEARNING OUTCOMES (GENERAL): Continued. . . The student will be able to:
7. Describe and perform a routine chemical urinalysis
8. Describe complications, restrictions, and limitations associated with each procedure.
9. Describe the legal and ethical responsibilities of the phlebotomist in patient/sample collection.
10. Exhibit professionalism in behavior and personal appearance consistent with standards for phlebotomist established by health care agencies.
11. Discuss principles of and display appropriate effective professional communication with clients, fellow students, staff and co-workers.
12. Describe the functions of and the basic procedures in the use of manual and computer based data systems in the health care setting.
13. Explain principles of Quality Assurance as it relates to phlebotomy.

E. LEARNING OUTCOMES (MNTC): NA

F. METHODS FOR EVALUATION OF STUDENT LEARNING:
1. Weekly quizzes
2. Worksheets
3. Final Exam
4. Safe and successful performance of skills in the laboratory

G. SPECIAL INFORMATION (if any):
1. Students will be given information regarding Right-to-know, Blood Borne Pathogens, Standard (Universal) Precautions prior to their experience.
2. Students must submit application for a Background study (Clearance). This study will be offered by the College, and completed by the State of Minnesota Department of Health-Division of Licensing. Any student who does not receive background clearance is disqualified from providing “direct contact services: as defined in MN statutes.