

MESABI RANGE COMMUNITY & TECHNICAL COLLEGE

Course Outline

Course Title: IV Therapy and Phlebotomy Certification
Semester Course Prefix and Number: NURS 1263
Old Quarter Course Prefix and Number:

Submitted By: Angie Rogers
Approval Date:
Revision Date: April 2011

Number of Credits: 2
Semester(s) Offered: All
Class Size: lec:20/ lab:10
Negotiated by AASC on:
(date) 5/4/2011

Number of Lecture Credits: 1
Number of Lab Credits: 1
Number of Lab Hours: 2
Number of Studio/Demonstration/Internship Credits:

Course Purpose Code:

- 0 – Developmental Courses
- 1 – Non-transferable, General Education
- 2 – Technical course related to career programs
- 3 – College course which has the primary goal of applying certain concepts (e.g. vocal ensemble)
- 4 – Other college course not considered a part of general education (MNTC) (e.g. computer science, health, physical education)
- 5 – Course which is intended to fulfill the Minnesota Transfer Curriculum (MNTC) requirements or intended for transfer.
- 9 – Continuing Education/Customized Training specialized credit course (not occurring in 0-5)

Catalog Description:

This course was designed for licensed nurses and other healthcare professionals who would like to develop or enhance skills related to IV therapy and phlebotomy. The student is taught to initiate and maintain IV therapy and to draw blood for diagnostic test. Information is provided through lecture and lab demonstration. Simulation is used for demonstration, practice, and for evaluation. Students may also have the ability to perform and/or observe venipuncture and IV therapy in the clinical setting. At least 3 successful venipunctures must occur. Upon successful completion of the course, the student will receive our Certificate for IV Therapy and Phlebotomy.

Prerequisites and/or recommended entry skills/knowledge:

Course Prerequisite(s): Licensure or verification of program completion of Practical Nursing Program, Registered Nursing Program, or other approved medical career
Reading Prerequisite: As per practical nursing program requirements
Composition Prerequisite: As per practical nursing program requirements
Mathematics Prerequisite: As per practical nursing program requirements

Career Programs and Transfer Majors Accessing this Course:

Nursing and Medical Careers

Minnesota Transfer Curriculum Goal(s) partially met by this course if applicable:

(Notes: No more than two goals may be met by any one course. Curriculum Committee review and the Chief Academic Officer's approval are required.)

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| 0. <input checked="" type="checkbox"/> None | 6. <input type="checkbox"/> The Humanities and Fine Arts |
| 1. <input type="checkbox"/> Communications | 7. <input type="checkbox"/> Human Diversity |
| 2. <input type="checkbox"/> Critical Thinking | 8. <input type="checkbox"/> Global Perspectives |
| 3. <input type="checkbox"/> Natural Sciences | 9. <input type="checkbox"/> Ethical and Civic Responsibility |
| 4. <input type="checkbox"/> Mathematical/Logical Reasoning | 10. <input type="checkbox"/> People and the Environment |
| 5. <input type="checkbox"/> History and the Social and Behavioral Sciences | |

Learning Outcomes: (including any relevant competencies listed in the Minnesota Transfer Curriculum)

Upon completion of this course, the student will be able to:

- Explain anatomy and physiology regarding IV therapy and Phlebotomy in relation to vascular system, cardiac system, and respiratory system
- Describe central line management and perform central line dressing change
- Explain total parenteral nutrition
- Interpret blood/blood product reaction principles and interventions
- Identify and analyze equipment, line maintenance, infection control, troubleshooting strategies for IV therapy
- Identify and analyze equipment, infection control, troubleshooting strategies, and process for collection of blood specimens obtained via venipuncture and skin puncture
- Describe clinical manifestations of fluid-electrolyte balance
- Identify and explain signs and symptoms of local and systemic complications in the administration of fluids and guidelines for management of these complications
- Differentiate indications for fluids used for IV therapy
- Perform fluid and drug administration rate calculations
- Demonstrate peripheral IV site identification, considerations, and preparation appropriate to age and situation
- Describe site selection, palpation of veins and skin preparation
- Discuss medications commonly given, compatibility, and related IV considerations
- Demonstrate phlebotomy site identification, considerations, and preparation appropriate to age and situation
- Perform venipuncture/skin puncture after appropriate preparation of client and equipment
- Establish and maintain IV infusion, including the calculation of flow rate
- Demonstrate saline/heparin lock conversion and management
- Demonstrate appropriate process/handling of blood specimens
- Discuss scope of practice, Board of Nursing guidelines and nurse practice act, general policies for IV therapy and phlebotomy
- Demonstrate appropriate documentation related to IV therapy and phlebotomy
- Demonstrate sound ethical judgment and safe practice
- Demonstrate client support and confidentiality
- Explain potential patient adverse reactions to IV therapy and venipuncture
- Describe therapeutic interventions regarding patient adverse reactions and complications
- Demonstrate blood specimen collection procedures
- Describe specimen collection processing/handling and laboratory procedures
- Describe accountability and responsibility (regarding IV therapy and phlebotomy) of the licensed practical nurse, registered nurse, and other medical professionals
- Demonstrate procedures for adding intravenous solutions to existing solutions, hanging intravenous solutions, changing intravenous tubing, and performing intravenous site dressing changes
- Demonstrate successful application of knowledge and skills related to IV therapy and phlebotomy at the clinical site
- Perform at least 3 successful venipunctures (at least of 1 of which is an IV start and at least 1 of which is a blood draw) in the lab or at the clinical site

Student Assessment Methods:

Written tests

Return demonstrations

Clinical and lab evaluation tools such as checklists, rubrics

Use of Instructional Technology: (includes software, interactive video and other instructional technologies):

PowerPoint, videos, overhead projector, simulation equipment, computer software

Outline or Statement of Major Course Content:

This course will prepare the nurse or other healthcare professional to initiate and manage IV therapy and to perform successful blood draws for diagnostic testing.

Additional Special Information: (special fees, directives on hazardous materials, etc.)

Fee for supplies and liability insurance

Transfer Information: (Please list colleges/majors that accept this course in transfer.)

Approvals:

Body	Representative Signatures	Date
Curriculum Committee		
Faculty Association		
Academic Affairs Standards Committee		
Chief Academic Officer		

Distribution: Original – Administrative Office

Copies: Curriculum Committee Chair, AASC Chair, Transfer Specialist, Originating Faculty Member, Scheduler, Records, Student Services, Learning Center, Library

Revised: October 2006