Moberly Area Community College
Common Syllabus

NUR204 Managing Intravenous Therapies
Current Term

Lead Instructor:
Office number:
Office hours:
Classroom number:
Class days and time:
Contact information:
Response Time:

Catalog Description:
NUR 204 Managing Intravenous Therapies [(0.5-0.5-1) (8 theory contact hrs-16 lab contact hrs.)]. The ability to perform intravenous therapy related skills, manage client issues related to intravenous therapy, and incorporate the values of safe, ethical practice is absolutely critical for the practicing registered nurse. In this course, associate degree nursing students will begin to acquire intravenous therapy skills in the lab and classroom. Topics include: ethical legal issues associated with intravenous therapy, fluid and electrolyte balance, intravenous solutions and equipment, central venous access devices and care, total parenteral nutrition (TPN), blood products and administration, principles of infection control/asepsis, potential complications of intravenous therapy and prevention, and intravenous medication administration. This course is not intended as an IV therapy certification course but as a component of the associate degree nursing program. This course does not meet the requirements for the Missouri State Board of Nursing IV Therapy certification.

Pre or Corequisite: None

Text(s):

Title: Medical Surgical Nursing, Concepts for Interprofessional Collaborative Care
Authors: Ignatavicius, D. D., Workman, M. L., Rebar, C. R., & Heimgartner, N. M.
Edition: 10th Publisher: Elsevier
ISBN: 978-0-323-44419-4

Title: Calculation of Drug Dosages
Authors: Ogden, Fluharty
9th Edition, Elsevier/Mosby
ISBN: 978-0-323-07753-8

Title: Davis’s Drug Guide for Nurses
Other Required Materials:
Computer with webcam. Syllabus, 2-year skills checklist, and other materials will be available online during the course. Clinical Skills: Skills for Nursing Collection, 1st edition.

Purpose of Course:
The purpose of the course is to prepare associate degree nursing students to acquire intravenous therapy skills by managing intravenous therapy for their clients in the supervised clinical setting. The ability to perform intravenous therapy related skills, manage client issues related to intravenous therapy, and incorporate the values of safe, ethical practice is absolutely critical for the practicing registered nurse.

Course Objectives:
Upon successful completion of this course, students will be able to:

1. Demonstrate the ability to perform intravenous therapy psychomotor skills in a supervised clinical setting. (Assessed in skills lab on pass/fail basis.)
2. Exhibit the safe practice of intravenous therapy by engaging the principles of asepsis and body substance precautions. (Assessed in skills lab on pass/fail basis.)
3. Demonstrate basic knowledge of the concepts related to intravenous therapy. (Assessed with a multiple-choice examination and simulation with mannequin.)
4. Utilize the nursing process in managing intravenous therapy in the supervised clinical setting. (Assessed with a multiple-choice examination and simulation with mannequin.)
5. Apply critical thinking to formulate clinical judgments related to intravenous therapy. (Assessed with a multiple-choice examination and simulation with mannequin.)

Course Content:
- Ethical/Legal Issues
- Fluid/Electrolyte Balance
- Peripheral I.V. Therapy
- Parenteral Solutions & Equipment
- Central Venous Therapy
- Parenteral Nutrition
- Transfusions
- Infection Prevention
- Complications
- I.V. Medications and Dosage Calculations

Connection with Health Sciences Division (HSD) Outcome Statement:
In compliance with MACC’s HSD outcomes, the student who successfully completes this course will be able to:
1. Demonstrate effective written and oral communication skills. Through class discussions and participation.
2. Demonstrate an understanding of discipline-related math and scientific principles. As evidenced by successful completion of drug calculation quiz, daily quizzes, and final examination.
3. Think critically while systematically assessing problems, identifying issues and implementing solutions. Through successful completion of lab simulation.
4. Students will apply principles of professionalism and safety standards when entering the workforce. Through successful completion of lab simulation.
5. Students will demonstrate skill mastery and will pursue lifelong learning in their field while adapting to changing industry standards and following evidence-based practices. As evidenced by successful critical skills check-off and lab simulation.

ASSESSMENT OF STUDENT LEARNING

Grade Scale:

- A = 90-100%
- B = 83-89%
- C = 78-82%
- D = 66-77%
- F = 66 and below

Assessment:

Formative evaluation will be provided on a daily basis by faculty, peers, and self-appraisal during lab practice.

Summative evaluation will consist of two parts.

1. Students must attain 100% accuracy using the rubric outlining critical elements of each intravenous therapy related skill by demonstrating the skills of venipuncture, hanging IV fluids, administering medications by IV piggyback, and by IV push during a timed 30-minute simulation in the lab. If a student is unable to perform a task with 100% accuracy they will be given immediate feedback on their error and given one additional opportunity to perform the skills with a mannequin arm, after review, before being evaluated again.

2. Students must achieve a 78% average on: homework weighted at 10%, quizzes weighted at 60%, and a final exam weighted at 30% of course grade.

Both the lab skills assessment, and course grade MUST be successfully completed for the student to continue in the Associate Degree Nursing Program. See the A.D.N. handbook.

Program Assessment:
Essential skills attained in this course are a part of program assessment.
**Expected Study Time Commitments:** Students should expect to spend approximately 2 to 4 hours per week studying, reading, and working on assignments for each registered credit hour. For example, 6 to 12 study hours per week may be expected for a 3 credit hour class.

**Description of Assignment(s)/Project(s):**
Calculations homework weighted at 10%, quizzes weighted at 60% (one math quiz will be given multiple attempts to reach 80% passing grade), and a final exam weighted at 30% of course grade. Pass/fail evaluations of lab intravenous related skills.

**INSTRUCTOR POLICIES**

**Tardiness:**

**Make-up and late work:**

**Extra-credit work:**

**Schedule of Student Assignments/Activities:** see Course Calendar and clinical schedule provided by your clinical instructor.

**COLLEGE POLICIES**

**Attendance Policy:** Students are expected to attend all class sessions for which they are enrolled. The College reserves the right to drop or withdraw students from courses due to lack of attendance.

Students need to be aware that dropping/being dropped from a course and their last date of attendance in the course may impact their financial aid.

MACC faculty are required to track attendance and report lack of attendance. An instructor must complete the appropriate steps to drop a student within one week following the student’s violation of the attendance policy. Additionally, a student’s attendance rate will be calculated based upon the first day the academic session begins (not the student’s date of enrollment in the course). If a student does not attend a course as defined below, the student will be dropped as “Never Attended.”

**Term Length Drop Calculations**

**16-week:** Any student who misses two (2) consecutive weeks of class will be dropped from the course by the instructor unless acceptable justification is provided by the student and the student still has the opportunity to be successful in the course.

**8-week:** Any student who misses one (1) consecutive week of class will be dropped from the course by the instructor unless acceptable justification is provided by the student and the student still has the opportunity to be successful in the course.

**4-week:** Any student who misses two (2) consecutive days of class will be dropped from the course by the instructor unless acceptable justification is provided by the student and the student still has the opportunity to be successful in the course.
Intersession: Any student who misses one (1) day of class will be dropped from the course by the instructor unless acceptable justification is provided by the student and the student still has the opportunity to be successful in the course.

Acceptable justification may include, but is not limited to, family emergencies, illness or injury, college-approved co-curricular and extra-curricular activities, and religious holidays.

**Definition of Course Attendance**

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<tr>
<th>Course Type</th>
<th>Description</th>
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<tr>
<td><strong>In Seat Course</strong></td>
<td>Physically attending scheduled, face-to-face, class meetings</td>
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<tr>
<td><strong>Virtual Course</strong></td>
<td>Being present, via appropriate platform, for scheduled class meetings/activities</td>
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| **Hybrid Course** | Physically attending scheduled, face-to-face, class meetings and active participation in the online portion of the course which may include any or all of the following:  
  - Completion of quizzes or exams during class meetings and online  
  - Submission of assignments during class meetings and online  
  - Participation in discussions during class meetings and online |
| **Online Course** | Active participation in an online course includes the following:  
  - Completion of quizzes or exams  
  - Submission of assignments  
  - Participation in threaded discussions |

Simply logging into the Learning Management System (Canvas) and/or accessing the course and course related material does not constitute active participation for the online component of hybrid courses or for online courses. (*Policy Handbook*, I.090 & M.095)

**Academic Dishonesty:**

MACC board policy is as follows: “Academic dishonesty by student’s damages institutional credibility and unfairly jeopardizes honest students; therefore, it will not be tolerated in any form.” Forms of academic dishonesty include but are not limited to the following: violations of copyright law, plagiarism, fabrication, cheating, collusion, and other academic misconduct. Incidents of dishonesty regarding assignments, examinations, classroom/laboratory activities, and/or the submission of misleading or false information to the College will be treated seriously. The procedure for handling academic dishonesty is outlined in the Student Handbook (*Policy Handbook M.010*). In cases of alleged academic dishonesty, the burden of proof is on the student, not on the instructor.

**Student Email:** MACC Mail is the official student email system at MACC. Official college communication is sent via this email system. Students are responsible for checking their MACC Mail account regularly. Students may also receive notifications and reminders from MACC through the online learning platform. However, students should...
remain aware that the online learning platform messaging system and MACC Mail (student email) system are two separate systems.

**ADA Statement:**

Students who have disabilities that qualify under the Americans with Disabilities Act may register for assistance through the Office of Access and ADA Services. Students are invited to contact the Access Office to confidentially discuss disability information, academic accommodations, appropriate documentation and procedures. For more information, please call either the Moberly office at (660) 263-4100 x 11240 or the Columbia office at (573) 234-1067 x 12120, or visit our web page at http://www.macc.edu/index.php/services/access-office.

**Title IX Statement:**

MACC maintains a strict policy prohibiting sexual misconduct in any form, including sexual harassment, sexual discrimination, and sexual violence. All MACC employees, including faculty members, are considered mandated reporters of sexual misconduct and as such are expected to contact the Title IX Coordinator when they become aware, in conversation or in writing, of an incident of sexual misconduct. For more information on this policy or to learn about support resources, please see http://www.macc.edu/sexual-misconduct-policy or contact Cheryl Lybarger, MACC’s Title IX Coordinator, at 660-263-4110, ext. 11369 or cheryll@macc.edu.

**Recording Class Sessions Using Zoom (Place Under College/Instructor Policies)**

The privacy of students is a priority in live or virtual meetings. Recordings of lectures or class meetings that share student information constitute an educational record and are protected under FERPA. Instructors may share recordings within the course section where they were originally recorded and only with the students enrolled in the section. Documented consent from each student identified in the recording is required to distribute outside of the course where it was originally recorded, or student identity must be redacted.

**IV Therapy Policies**

**Narcotics**

Students may count narcotics, however, the instructor will have to co-sign with the student. The instructor should be present during the counting.

**Recapping of non-contaminated needles**

It is our policy that needles should never be recapped, broken or separated from the syringe. It is our policy that needles should be placed in a puncture resistant container as quickly as possible. When it becomes necessary to recap a non-contaminated needle, the following guidelines will be utilized:

a. Insert needle into the needle cover as it lies on a flat surface.

b. Secure needle cover in place by holding cover nearest hub of needle with thumb and index finger.

**Blood Therapy**

Second semester students will be encouraged to learn the proper technique of blood product administration within the following guidelines after reviewing the hospital’s policies and procedures. The student may:
• Ascertain the status of the Blood Bank requisition, supervised by the instructor.
• If required: spike a NS solution bag, prime a blood tubing set, and perform the venipuncture required to administer the blood/blood product, supervised by the instructor.
• **The student will not be allowed to initiate blood therapy.**
• Obtain baseline vital signs.
• Perform vitals as required by hospital policy and document data.
• Remain with the patient for the first 30 minutes of each transfusion and notify the instructor and/or charge nurse **immediately** if the patient's condition changes.

**Blood Borne Pathogens**
Universal precautions shall be observed to prevent contact with blood or other potentially infectious materials including the following body fluids: semen, vaginal secretions, cerebrospinal fluid, synovial fluid, pleural fluid, pericardial fluid, peritoneal fluid, amniotic fluid, saliva, and blood; and in all situations where it is difficult or impossible to differentiate between body fluids; and any unfixed tissue or organ from a human (living or dead) by all students in both laboratory and clinical settings.

Recapping, bending, breaking and/or shearing of contaminated needles/sharps are strictly prohibited in clinical settings and college laboratory.

Eating, drinking, smoking, applying cosmetics or lip balm, and handling contact lenses are prohibited in work areas where there is reasonable likelihood of exposure to infectious material.

All procedures involving blood or other potentially infectious materials shall be performed in such a manner as to minimize splashing, spraying, spattering, and generation of droplets of these substances.

Mouth pipetting/suctioning of blood or other potentially infectious materials is prohibited.

Students must utilize all personal protective equipment such as, but not limited to, gloves, gowns, laboratory coats, face shields masks and eye protection, and mouthpieces, resuscitation, bags, pocket masks or other ventilation devices. All protective equipment shall be removed prior to leaving the work area, and placed in the appropriately designed area or container for storage, washing, decontamination or disposal.

Broken glassware which may be contaminated shall not be picked up by hand. It shall be cleaned up using mechanical means, i.e., dustpan and brush or tongs.

**Hepatitis B Vaccination Policy**
In accordance with clinical facility policies and Occupational Safety and Health Administration (OHSA) regulations (Federal Register, Vol. 56 No. 235) the following policy is set forth for all nursing and emergency medical tech students:

All students in MACC's above listed health occupation programs are technically considered to be included in the “high risk” categories of occupational exposure to blood borne pathogens by OHSA. OSHA defines “high risk” as having a minimum of one exposure to blood/blood pathogens per month and strongly recommends that all health care workers in high risk categories by vaccinated against Hepatitis B. Although the OSHA regulations address health care employers and workers, they do not include students in any part of the directive.
The OSHA directive does not make receiving the vaccination mandatory, but it does make it mandatory to inform persons of the risk, the nature of the disease, the vaccination pharmacology, and protective measures, and policies/procedures to minimize exposure as well as the procedures to report and handle exposures. (You will receive the appropriate training in class.)

Any student wishing to obtain the vaccine may do so at their own expense. It is, however, not mandatory to receive the vaccine. If you opt NOT to receive the Hepatitis B vaccine, it is mandatory that the declination waiver and release of information waiver be signed (from student handbook). The faculty strongly encourage and recommend that each student receive the Hepatitis B vaccination.