

ANESTHESIA PRACTICUM II**NUR 886 Section 001****2 Credits****Wednesdays 8:00 am – 4:30 pm, Clinical****Fall 2009**

Catalog Course Description: Integration of knowledge, skills and program objectives to a broader array of patients in simulated and clinical patient environments.

Course Objectives: At the end of this course, students will:

1. Describe to the organization and proper approach to administer anesthesia to a variety of patients.
2. Describe and explain responsibly for the delivery of anesthesia for more challenging surgical procedures
3. Safely administer anesthesia during regular assignments for planned and emergency procedures

Prerequisites: NUR 885 acceptance to the Nurse Anesthesia Program

Co-requisites: None.

Professional Standards & Guidelines: The curriculum is guided by the following documents:

1. American Association of Colleges of Nursing. (1996). *The essentials of master's education for advanced nursing practice*. Washington, DC: Author.
2. American Nurses Association. (2001). *Code of ethics for nurses with interpretive statements*. Silver Spring, MA: nursesbooks.org.
3. AANA (2007). *Scope and Standards for Nurse Anesthesia Practice*. Park Ridge, IL.
4. Professional Practice Documents (2006). *Code of ethics for Certified Registered Nurse Anesthetist*. Park Ridge, IL.
5. Professional Practice Documents (2006). *Post Anesthesia Care Standards for the Certified Registered Nurse Anesthesia*. Park Ridge, IL.

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Office Hours: Variable by appointment

Note: Times can be arranged to accommodate student schedules.

Instruction:

a. Methodology

The NUR 886 Anesthesia Practicum II course is designed to expand on the student's knowledge obtained during the previous semesters. The course is taught, integrating simulated and in hospital clinical practicum experiences to allow the student to integrate advanced physiologic and advanced nursing knowledge, technical skills and critical thinking into their daily practice.

b. Required Texts:

Morgan, G.E., Mikhail, M. S., Murray, M.J.; *Clinical Anesthesiology, 4th ed.*, New York, New York: McGraw Hill Medical Publishing Company. ISBN: 0-8385-1553-3.

Barash, P.G., Cullen, B.F., Stoelting, R.K.; *Clinical Anesthesia, 5th ed.*, Philadelphia, Pennsylvania: Lippincott, Williams and Wilkins Publishing Company. ISBN: 0-7817-5745-2.

Nagelhout, J.J., Plause, K.; *Nurse Anesthesia, 4th ed.*, Philadelphia, Pennsylvania: Elsevier Saunders Publishing Company. ISBN: 978-1-4160-5025-4.

Stoelting, R.K., Hillier, S.C.; (2006) *Pharmacology and Physiology in Anesthetic Practice, 4th ed.*, Baltimore, Maryland: Lippincott, Williams and Wilkins Publishing Company. ISBN: 0-7817-5469-0.

c. Optional Texts:

Miller, R.D.; (2005) *Miller's Anesthesia, 6th ed.* Philadelphia, Pennsylvania: Elsevier Saunders Publishing Company. ISBN: 0-4430-6618-3 (set).

d. Required Resources, References, Supplies: Precordial stethoscope, calculator

Evaluation:

a. Learning Assessments and Grading:

All clinical practicum courses are sequential, progressively more demanding, and will require satisfactory completion of the competency objectives to progress to subsequent practica. Punctual attendance is expected at all scheduled clinical practica and other scheduled clinical activities as may be announced. . Evaluation is done via weekly clinical evaluations and discussions with the supervising CRNA or anesthesiologist. This course is graded on a Satisfactory or Unsatisfactory system. Students are responsible for knowing their daily assignments, equipment setup, pre- and post-anesthesia patient evaluations, the anesthesia management plan, and for following directions of the CRNA or Anesthesiologist preceptor. Active participation is expected and students are responsible for obtaining and maintaining accurate daily clinical performance and case count records.

b. Course Grading Scale:

94-100%	4.0
93-89%	3.5
88-84%	3.0
83-79%	2.5
78-75%	2.0
74-70%	1.5
69-65%	1.0
≤64%	0

Professionalism:

A. General Statement

The student is held accountable and responsible for the all policies in the most current version of The Michigan State University Student Handbook and Resources Guide (The Spartan Life: <http://www.vps.msu.edu/SpLife/acfree.htm>), The College of Nursing Handbook (<http://nursing.msu.edu>), and the Nurse Anesthesia Program Supplement.

B. Progression in the Major

NUR 886 is a required course in the nurse anesthesia curriculum. In order to progress, a student must pass this course with a grade of Satisfactory.

C. Change in Calendar

The faculty reserves the right to alter the calendar as circumstances may dictate. All changes will be announced in class, posted on the College of Nursing website, or via College of Nursing email. Students not present in class are responsible for obtaining this information.

D. Official Means of Written Communication-Electronic Mail

Keeping up with changes or news from Michigan State University and the College of Nursing is the responsibility of the student. Electronic mail or e-mail is an official means of written communication for all students, faculty, and staff.

University & College Policies:

The College of Nursing expects that students will demonstrate professional behavior in all situations. Specific expectations for clinical and other professional venues can be found in the appropriate handbook. You are responsible to review and act in accordance with the policies and procedures found in the following sources, including the following topics: Professionalism, Academic Integrity, Accommodations for Students with Disabilities, Disruptive Behavior, Attendance, Compliance, and Progression.

- CON Student handbook <http://nursing.msu.edu/handbooks.asp>
- MSU Spartan Life Student Handbook and Resource Guide <http://www.vps.msu.edu/SpLife/index.htm>
- Information for Current Students—including Rights, Responsibilities and Regulations for Students <http://www.msu.edu/current/index.html>

ANESTHESIA PRACTICUM II**NUR 886 Section 001****2 Credits****Wednesdays, 8:00 am – 4:30 pm, Clinical****Fall 2009****Additional Course Information**

Additional Course Description: NUR 886 – Clinical opportunity for intermediate student nurse anesthetists to incorporate and integrate knowledge, skills and objectives to a more comprehensive range of patients in a simulated or clinical patient environment.

Additional Course Objectives: At the completion of this course the student will be able to:

1. Position patients to prevent injury and maintain a safe perioperative environment
2. Demonstrate correct technique for direct visualization intubation, laryngeal mask airway placement, fiberoptic intubation, and adjunct airway equipment
3. Recognize and treat perioperative respiratory dysfunction such as mechanical obstruction, laryngospasm, bronchospasm, apnea, respiratory depression and aspiration
4. Function as a team leader and member in cardiopulmonary resuscitation
5. Identify and take appropriate action when confronted with anesthetic equipment-related malfunctions
6. Identify and utilize anatomic landmarks, aseptic methods, and proper techniques for inserting invasive monitors
7. Plan, prepare, administer and vigilantly manage local anesthesia with sedation
8. Demonstrate correct technique for placement of spinal and epidural anesthesia
9. Apply pharmacologic, anatomic, and technical foundations to perform and manage peripheral nerve and major conduction blocks for anesthesia and perioperative pain management
10. Recognize a patient's right to refuse health care intervention based upon the patient's personal belief system
11. Utilize universal precautions and appropriate infection control measures in the care of surgical patients

Policies:

Academic Integrity: Article 2.3.3 of the [Academic Freedom Report](#) states that "The student shares with the faculty the responsibility for maintaining the integrity of scholarship, grades, and professional standards." In addition, the (insert name of unit offering course) adheres to the policies on academic honesty as specified in General Student Regulations 1.0, Protection of Scholarship and Grades; the all-University Policy on Integrity of Scholarship and Grades; and Ordinance 17.00, Examinations. (See [Spartan Life: Student Handbook and Resource Guide](#) and/or the MSU Web site: www.msu.edu). Therefore, unless authorized by your instructor, you are expected to complete all course assignments, including homework, lab work, quizzes, tests and exams, without assistance from any source. You are expected to develop original work for this course; therefore, you may not submit course work you completed for another course to satisfy the requirements for this course. Also, you are not authorized to use the www.allmsu.com Web site to complete any course work in NUR 886. Students who violate MSU rules may receive a penalty grade, including--but not limited to--a failing grade on the assignment or in the course. Contact your instructor if you are unsure about the appropriateness of your course work. (See also <http://www.msu.edu/unit/ombud/honestylinks.html>)

Accommodations for Students with Disabilities: Students with disabilities should contact the Resource Center for Persons with Disabilities to establish reasonable accommodations. For an appointment with a disability specialist, call 353-9642 (voice), 355-1293 (TTY), or visit MyProfile.rcpd.msu.edu.

Disruptive Behavior: Article 2.3.5 of the [Academic Freedom Report](#) (AFR) for students at Michigan State University states: "The student's behavior in the classroom shall be conducive to the teaching and learning process for all concerned." Article 2.3.10 of the AFR states that "The student has a right to scholarly relationships with faculty based on mutual trust and civility." [General Student Regulation 5.02](#) states: "No student shall . . . interfere with the functions and services of the University (for example, but not limited to, classes . . .) such that the function or service is obstructed or disrupted. Students whose conduct adversely affects the learning environment in this classroom may be subject to disciplinary action through the Student Faculty Judiciary process.

Attendance: Students whose names do not appear on the official class list for this course may not attend this class. Students who fail to attend the first four class sessions or class by the fifth day of the semester, whichever occurs first, may be dropped from the course.

Criteria for Evaluation
Assessment and Patient Preparation
<ul style="list-style-type: none"> *1. Generate a preanesthesia assessment utilizing proper interview techniques and principles of physical assessment 2. Assign the appropriate physical status using the American Society of Anesthesiologists Classification. *3. Formulate a patient-specific plan for all inpatients and procedure specific plan for all outpatients. 4. Integrate knowledge of physiology, pathophysiology, pharmacology, patient history, psychosocial needs and surgical procedure when preparing the plan. 5. Discuss anesthesia plan and communicate pertinent information to instructor.
Room Preparation
<ul style="list-style-type: none"> *1. Perform and document a complete machine check and report problems to the assigned instructor. *2. Assemble basic anesthesia set-up appropriately, including specific accessory equipment. *3. Prepare adjunct drugs and proper labeling required for the procedure.
Patient Management
<ul style="list-style-type: none"> *1. Prepare patient for induction in a reasonable length of time. *2. Demonstrate the ability to smoothly induce, maintain and emerge patients for standard induction. *3. Administer appropriate pharmacologic agents to patients undergoing procedure under general, regional or MAC anesthesia. 4. Utilize correct techniques when performing oral and nasal intubations and verify proper placement of endotracheal tube. 5. Utilize advanced monitoring modalities and specialized equipment. 6. Administer regional anesthesia with assistance using safe techniques. 7. Insert arterial and central lines with assistance. 8. Assist with positioning of patients to assure optimal physiological function and patient safety. 9. Administer appropriate pharmacological agents to patients undergoing procedures under general, regional or MAC anesthesia. *10. Assess the adequacy of regional anesthesia in relation to the surgical procedure (i.e., dermatome level, sensory blockade, etc.). *11. Demonstrate proper use of laboratory devices, i.e. glucometer, hemoglobin, blood gas analyzers. 12. Determine intraoperative fluid replacement based on NPO time, patient factors and surgical/anesthesia factors. 13. Demonstrate ongoing observation of the surgical procedure. 14. Demonstrate judgment in planning a smooth, safe emergence from anesthesia.

15. Evaluate level of consciousness, return of muscle strength, extubation criteria, patency of airway and need of airway support.
16. Safely transport patient to recovery room or critical care unit.

Technical Skills

1. Demonstrate proper techniques of airway management, intubation, mask or LMA.
2. Demonstrate proper technique for regional blocks.

Criteria for Evaluation (continued from previous page)

Knowledge Application

1. Utilize data from preanesthesia evaluation to determine the type and position of basic monitoring devices and locations of I.V. catheters indicated for various anesthesia and surgical procedures.
2. Distinguish various ETCO₂ waveforms and implication.
3. Demonstrate proper use of laboratory devices (glucometer, hemoglobin, blood gas).
4. Incorporate knowledge of anatomy when identifying landmarks necessary for administration of regional anesthesia.

Professional Conduct

- *1. Prompt, complete and accurate documentation of pertinent information.
2. Complete other documents as per anesthesia department policy.
3. Demonstrate reliability and punctuality in clinical assignments and relief time.
4. Maintain a pleasant and cooperative attitude.
5. Effectively communicate and interact with other members of health care team.
6. Assume responsibility for evaluations.

*** = Critical element for this phase and essential for advancement to next level**