Principles of Anesthesia III  
NUR 884 – Section 001  
Room A-107 Life Sciences Building  
Tuesdays, 8:00 a.m. – 9:20 a.m. and 1:30 p.m. - 2:50 p.m.  
3 credits  
Spring 2016

Catalog Course Description: Foundations for the clinical practice of anesthesia. Integrating physiologic patient parameters, didactic knowledge, and technical skills in simulated and clinical environments.

Course Objectives: At the completion of this course, students will:
1. Describe plan for anesthetizing obstetrical patient presenting during emergency labor.
2. Describe plan for anesthesia delivery to trauma, burn, and difficult airway patients
3. Develop an anesthetic plan for patients having adverse intraoperative complications
4. Describe anesthetic considerations for major head and neck surgery.
5. Compare and contrast anesthetic management of various disease states.

Prerequisites: NUR 883

Co-requisites: None

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

Course Faculty: Gayle Lourens, DNP, MS, CRNA  
gayle.lourens@hc.msu.edu  
Office Phone: 517-432-8163
Official Means of Communication – Electronic Mail:

Electronic mail is the official means of written communication for all students, faculty and staff at Michigan State University and the College of Nursing. Check your e-mail daily. Keeping up with changes in the course is the responsibility of the student.

Office Hours: Thursday, between 11:30am – 12:30pm & 3:30pm – 4:30pm; additional hours available as arranged for students in the Nurse Anesthesia Program to accommodate student’s didactic schedule.

Instruction:

a. Methodology: Presentation of course content is accomplished through weekly scheduled class meeting times. As adult learners, it is expected that students will complete assigned readings prior to class. Content will be delivered utilizing the following instructional methods:
   - Classroom lectures
   - Classroom discussion
   - Readings from textbooks, journals or web pages (as assigned)
   - Exams
   - Low and high fidelity simulation
   - Student/faculty conferences
   - Voice over power points (or an equivalency), narrative and audio files

b. Required Texts:


c. Optional Texts: None

**Required Resources, References, Supplies:**
- Access to, and ability to use, Microsoft Office Word and Power Point
- **Basic** Scientific Calculator (scientific notation, log function, exponential functions, roots, square roots). Note: Calculators on mobile or phone devices are acceptable as calculators in class but *not* during exams.

**Frequently Called Telephone Numbers:**
- D2L Help Line
  1-800-500-1554 (24 hours, 7 days/week)
  517-355-2345 (local; 24 hours, 7 days/week)
- Stefanie Abbey, Graduate Clinical Program’s Secretary
  Phone: 517-432-0474
  E-mail: stefanie.abbey@hc.msu.edu
- Nikki O’Brien
  Student Advisor, Academic Specialist
  College of Nursing Student Support Services
  Bott Building C-134
  Phone: 517-355-8311
  E-mail: obrienni@msu.edu

**Evaluation:**

a. Learning Assessments and Grading: In order to **Pass** the course, the student must achieve an overall grade of **80% or higher**. Failure to meet 80% in the course will constitute a failing grade and the student will not be allowed to continue in the nurse anesthesia program. The MSN and Nurse Anesthesia Supplemental Handbooks discuss the procedures in the event of failure of a course. **There is no opportunity for “extra credit” or “make up work” in this course and late work will not be accepted.**

b. **Grading scale:**

<table>
<thead>
<tr>
<th>%</th>
<th>GRADE</th>
</tr>
</thead>
<tbody>
<tr>
<td>94 – 100</td>
<td>4.0</td>
</tr>
<tr>
<td>87 – 93</td>
<td>3.5</td>
</tr>
<tr>
<td>80 – 86</td>
<td>3.0</td>
</tr>
<tr>
<td>75 – 79</td>
<td>2.5</td>
</tr>
<tr>
<td>70 – 74</td>
<td>2.0</td>
</tr>
<tr>
<td>65 – 69</td>
<td>1.5</td>
</tr>
<tr>
<td>60 – 64</td>
<td>1.0</td>
</tr>
<tr>
<td>Below 60</td>
<td>0.0</td>
</tr>
</tbody>
</table>

(Minimum passing grade)
c. Evaluation Components:

<table>
<thead>
<tr>
<th>Exam / Assignment</th>
<th>Weighted %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exam 1</td>
<td>23.33%</td>
</tr>
<tr>
<td>Exam 2</td>
<td>23.33%</td>
</tr>
<tr>
<td>Exam 3</td>
<td>23.33%</td>
</tr>
<tr>
<td>Cumulative Final</td>
<td>30%</td>
</tr>
</tbody>
</table>

1. Exams: Three proctored, timed (60 minutes) exams will be through Exam Soft during the semester. Each exam represents 23.33% of the final grade. Exams are based on information obtained from assigned readings, online sources, simulation events and lecture content.

2. Cumulative Final: A proctored, timed (120 minutes) cumulative final will be administered during finals week at the end of the semester. The exam represents 30% of the final grade.
**Appeal of a test question:** All inquiries/appeal of a test question must be made on this form. No appeal will be accepted unless received within 5 days of the posted grade/test review. All appeals will be evaluated individually.

Student Name: _______________________________________________________

Exam Number: _________ Date of Exam: _________ Date Submitted: _________

Submitted to: _________________________________________________________

1. Write the test number and question as it was written on the exam.

_____________________________________________________________________

2. What was the **correct answer** according to the test key? ________________

3. What answer did you select? ________________________________________

4. What concern do you have regarding the question and answer?

___________________________________________________________________________

___________________________________________________________________________

___________________________________________________________________________

5. Cite **Three References** that support your rationale for the answer you selected over the answer on the answer key. References cannot be cited from the internet.

   a. ______________________________________________________________
   
   b. ______________________________________________________________
   
   c. ______________________________________________________________

Additional comments may be attached to this form.

**Faculty Response to Appeal:** Accept _________ Reject _________

Rationale:

___________________________________________________________________________

___________________________________________________________________________

___________________________________________________________________________

Faculty Signature: ___________________________ Date: ____________________
Testing and Classroom Conduct:

- Class begins promptly at the scheduled time. To avoid class disruption, a student who is late will be asked to join following a class break.
- Attending class is strongly encouraged. A student who misses class or arrives late will be responsible for the missed content and obtaining said content.
- Any student who will be absent from an exam must notify faculty prior to the examination. The student will be given the opportunity to make up the missed exam with the faculty member or faculty-designated proctor. The faculty member will select and schedule the date and time. Only one exam can be missed and made up during this course. Any other missed exam(s) will be assigned a grade of zero.
- All cell phones or handheld devices are to be silenced or turned off during class. Checking e-mail or texting during class is disruptive and the student will be asked to leave class.
- All materials brought into an exam (except for a writing utensil, eraser and calculator) must be left in front of the room. Students may not wear coats or jackets during an exam.
- A mobile device cannot serve as a calculator. Students who forget to bring an approved calculator to an exam will calculate the problem manually.
- If the instructor suspects any sharing during an exam, all students involved will receive a zero on that exam and will face all consequences of academic dishonesty according to the MSU College of Nursing Student Handbook and Michigan State University Policy.
- Due to the intensity of the course, faculty is unable to provide an environment conducive to learning and testing with children present. Students are expected to make child care arrangements in advance.

Professionalism:
Preparation as an advanced practice nurse requires more than the acquisition and application of knowledge. In addition to the academic standards listed, the student must demonstrate:

- Appropriate interpersonal relations and communications with peers, faculty and MSU College of Nursing staff
- Respect for faculty and classmates
- Honesty and integrity in all academic and professional matters
- The ability to interact with course faculty when there are questions and/or concerns regarding evaluation. The faculty of record or lead faculty should be contacted first.

University 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 College 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
http://splife.studentlife.msu.edu/ 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 884. 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 https://www.msu.edu/unit/ombud/academic-integrity/index.html#regulations

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. See the Ombudsman’s web site for a discussion of student observance of major religious holidays, student-athlete participation in athletic competition, student participation in university-approved field trips, medical excuses and a dean's drop for students who fail to attend class sessions at the beginning of the semester.

College of Nursing Policies: Professional Development Guidelines are found in CON Student Handbooks at CON website. Students are responsible for the information found in the CON Masters of Science in Nursing Handbook and the Nurse Anesthesia Supplement Handbook.
<table>
<thead>
<tr>
<th>Date</th>
<th>Course Objective</th>
<th>Topic Content</th>
<th>Textbook/Readings</th>
<th>Activities</th>
<th>Faculty</th>
</tr>
</thead>
</table>
| Week 1 (January 12) | 3,5 | Acute Pain Pathways Extremity Blocks Chronic Pain | Brown, appropriate chapters associated with extremity regional (Femoral, Sciatic, Intercostal, Interscalene, Supraclavicular, Infraclavicular, Axillary, Distal upper Extremity and IV regional) Anatomy text as review Nagelhout & Plause, Chapter 45 | • Lecture  
• Readings  
• Self Assessment  
• Ultrasound Workshop | Lourens Biegner Crofut |
• Readings  
• Self Assessment | Lourens |
| Week 3 (January 26) | 3,4 | Neuroanesthesia | Barash, Chapter 36 | • Lecture  
• Readings  
• Self Assessment | Lourens |
| Week 4 (February 2) | 3,4 | Neuroanesthesia (continued) | Barash 36 Nagelhout & Plause, Chapter 28 | • Exam I (23.3% of final grade)  
• Readings | Lourens |
| Week 5 (February 9) | 3,5 | Hapatobiliary | Barash Chapter 45 & 46 Nagelhout & Plause, Chapter 30, 33 | Readings  
Self Assessment | Lourens / Mason |
| Week 6 (February 16) | 2,3,5 | Brain Death Organ Donation Transplantation | Barash, Chapter 51 Nagelhout and Plause, Chapter 28 | Readings  
Simulation | Tretheway |
<p>| Week 7 (February 23) | 3,5 | | Auerbach, A. &amp; Goldman, L. (Assessing and Reducing the Cardiac Risk of Noncardiac Surgery) | Readings | Mason |</p>
<table>
<thead>
<tr>
<th>Week 8 (March 1)</th>
<th>Central Lines Lab</th>
<th>Hart, B. (Evolution of beta-blockers in noncardiac surgery: Evolution of the evidence)</th>
<th>Exam II (23.3% of final grade) Review Lines Power Point on Angel Central Lines Lab / Simulation</th>
<th>Lourens</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 9 (March 8)</td>
<td></td>
<td><strong>SPRING BREAK</strong></td>
<td>No Class</td>
<td></td>
</tr>
<tr>
<td>Week 10 (March 15)</td>
<td>3,4,5</td>
<td>Vascular / Thoracic</td>
<td>Barash, Chapter 37 &amp; 39 Nagelhout &amp; Plaus, Chapter 27</td>
<td>Readings Self Assessment</td>
</tr>
<tr>
<td>Week 11 (March 22)</td>
<td>3</td>
<td>Plastics / Obstetrics</td>
<td>Barash, Chapter 31</td>
<td>Readings</td>
</tr>
<tr>
<td>Week 12 (March 29)</td>
<td>1,3,5</td>
<td>Obstetrics</td>
<td>Barash, Chapter 40 Chestnut, Chapter 2,3,18,26, 37</td>
<td>Readings Self Assessment</td>
</tr>
<tr>
<td>Week 13 (April 5)</td>
<td>2,3,5</td>
<td>Pediatrics Neonatal</td>
<td>Cote, Chapter 3, 4, 11 &amp; 12</td>
<td>Exam III (23.3% of final grade) Participate in Workshop</td>
</tr>
<tr>
<td>Week 14 (April 12)</td>
<td>3,5</td>
<td>Congenital Heart</td>
<td>Cote, Chapter 15, 21</td>
<td>Readings Self Assessment</td>
</tr>
<tr>
<td>Week 15 (April 19)</td>
<td>3,5</td>
<td>Adult Hearts (Introduction)</td>
<td>Barash Chapter 41 Henley Chapter 1,2,5,6,7, 19</td>
<td>Readings Self Assessment</td>
</tr>
<tr>
<td>Week 16 (April 26)</td>
<td>3,5</td>
<td>Hearts (Part II)</td>
<td>Henley Chapter 10-18, 21,22</td>
<td>Readings</td>
</tr>
<tr>
<td>Week 17 (May 3)</td>
<td></td>
<td><strong>FINAL EXAM- DATE TBA</strong> (30% of Final Grade)</td>
<td>Lourens</td>
<td></td>
</tr>
</tbody>
</table>