PRINCIPLES OF ANESTHESIA II  
NUR 883 – 3 Credits  
Tuesdays and Thursdays 10:00- 11:30  
A107 Life Sciences Building  
Fall 2015

Catalog Course Description: Advanced anesthesia care principles. Procedures and complications in the anesthetic management of the emergency and trauma patient. Considerations for specialty surgical areas.

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

1. Design management care plans for specialty surgical areas.
2. Discuss pathophysiology and mechanisms of pain.
3. Demonstrate understanding of anesthesia gas machine and anesthetic gas behavior.
4. Discuss implications of disease process on anesthetic management of surgical patients
5. Develop plans of care and anesthesia management for major system compromise.

Prerequisites: Acceptance into the Nurse Anesthesia Program

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  
Cell Phone: 517-862-5666  
Office Address: A-121 Life Sciences Building  
1355 Bogue Street  
East Lansing, Michigan 48824

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:  
Tuesdays and Thursdays between 12-2 pm; additional hours available as arranged for students in the Nurse Anesthesia Program to accommodate student’s didactic and clinical schedule.

Change in Calendar  
The faculty reserves the right to alter the calendar as circumstances may dictate. All changes will be announced in class or communicated through e-mail.

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  
   • Voice over power points (or an equivalency), narrative and audio-files  
   • Classroom discussion  
   • Readings from textbooks, journals or web resources (as assigned)  
   • Exams  
   • Low and high fidelity simulation  
   • Self-evaluation (Self Assessments)  
   • Student/faculty conferences

b. Writing requirements: Students are required to follow APA format guidelines (6th edition) when completing written assignments.

c. Required Texts:  


d. **Optional Texts:**


**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 Luna
  Graduate Clinical Program’s Secretary
  A116 Life Sciences
  Phone: 517-432-0474
  E-mail: stefanie.luna@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:

- **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 a 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. Late assignments will be assigned a grade of “0”.

- **Grading scale**:

<table>
<thead>
<tr>
<th>%</th>
<th>GRADE</th>
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<tbody>
<tr>
<td>94 – 100</td>
<td>4.0</td>
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<tr>
<td>87 – 93</td>
<td>3.5</td>
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<tr>
<td>80 – 86</td>
<td>3.0</td>
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<tr>
<td>75 – 79</td>
<td>2.5</td>
</tr>
<tr>
<td>70 – 74</td>
<td>2.0</td>
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</tbody>
</table>

(Minimum passing grade)
Evaluation Components:

<table>
<thead>
<tr>
<th>Exam / Assignment</th>
<th>Weighted %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exam 1</td>
<td>20%</td>
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<tr>
<td>Exam 2</td>
<td>20%</td>
</tr>
<tr>
<td>Exam 3</td>
<td>20%</td>
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<tr>
<td>Cumulative Final</td>
<td>30%</td>
</tr>
<tr>
<td>Simulation</td>
<td>10%</td>
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</tbody>
</table>

1. **Exams:** Three proctored, timed (60 minutes) exams will be administered through the Angel site during the semester. Each exam represents 20% of the final grade. Exams are based on information obtained from assigned readings, online sources, lecture content and class discussions.

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.

3. Students will apply didactic content by participating in low and high fidelity simulation exercises during the semester which includes an Advanced Airway Workshop, Subarachnoid Workshop, Epidural and a Caudal Workshop. Preparation, performance and completion of quizzes and evaluation materials will determine a student’s grade in each event and represents 10% of the total grade. Simulation grading rubrics are located on the D2L course site.
Appeal of a Test Question:

All inquiries/appeal of a test question must be made on this form. No appeal will accept 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 __________________________________________________________________
According to the policies of The Michigan State University College of Nursing, grades may be appealed only for reasons of discrimination. All appeals must be made in writing. See the current Student Handbook for the appropriate form. The appeal must be made to the faculty member and course coordinator within one week. The appeal must be accompanied by a legible copy of all student work in the course at the occurrence/failure.

After appealing to the faculty and course chair, the student may appeal to the MSU College of Nursing Student Services Office. Grade appeals must be made in writing to the Director of Student Services and to the Associate Dean of Academic Affairs with 5 working days after appealing to the faculty and course chair.

The third level of appeal may be made in writing to the Dean of the MSU College of Nursing. The last level of appeal is at the university level. Students are referred to The MSU Student Handbook for this process of grade appeal

- **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 mandatory. 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 *unless approved by instructor*. Checking e-mail or texting during class is disruptive and the student will be asked to leave.
  - 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, the instructor 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:**
All graduate students at Michigan State University should be fully familiar with the Graduate Student Rights and Responsibilities Articles (published by the Graduate School; available at http://www.vps.msu.edu/SpLife/gradrights.htm); University guidelines for ethical research - published by the University Committee on Research Involving Human Subjects [UCRIHS]; available at http://www.msu.edu/user/ucrihs/); The MSU Guidelines for Integrity in Research and Creative Activities, http://grad.msu.edu/all/ris04activities.pdf and specific principles for informal conflict management, in the Graduate Student Resource Guide (published by the Graduate School; available at http://grad.msu.edu/conflict.htm).

The Graduate Student Rights and Responsibilities (GSRR) Articles address professional standards for graduate students as follows: “Each department/school and college shall communicate to graduate students, at the time of their enrollment in a degree program or course in the unit, any specific codes of professional and academic standards covering the conduct expected of them.” (Article 2.4.7). “The graduate student shares with the faculty the responsibility for maintaining the integrity of scholarship, grades, and professional standards” (Article 2.3.8).

In addition to meeting academic standards included in the Academic Progression Guidelines, students and faculty in the PhD Nursing Programs have shared responsibility for adherence to the professional standards presented in the CON Doctoral Student Handbook.

Professional expectations are rooted in the maintenance of high quality working relationships with faculty, peers, research participants, staff, and all others with whom the graduate student interacts. Aspects of high quality working relationships that are addressed in the GSSR as shared faculty-student responsibilities include: mutual respect, understanding, and dedication to the education process (2.1.2); maintenance of a collegial atmosphere (2.3.7); and mutual trust and civility (2.3.1.2).

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 for reviewing and acting 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 MSN Student Handbook: http://nursing.msu.edu/MSN%20Programs/Handbooks/default.htm
- Information for MSU Students: http://www.msu.edu/current/index.html
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. 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.

**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 found in CON Student Handbooks at CON website http://nursing.msu.edu/MSN%20Programs/Handbooks/default.htm. Students are responsible for the information found in the CON (BSN, MSN, DNP, or PhD - choose one) Student Handbook.
Course Calendar:

<table>
<thead>
<tr>
<th>Week</th>
<th>Content/Topic</th>
<th>Faculty</th>
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<tbody>
<tr>
<td>1</td>
<td>Older Adult</td>
<td>Lourens</td>
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<tr>
<td>2</td>
<td>Gastrointestinal Procedures</td>
<td>Mason</td>
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<td></td>
<td>Laparoscopic Implications</td>
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<td>3</td>
<td>GU</td>
<td>Mason</td>
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<td></td>
<td>Robotics</td>
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<td>4</td>
<td>Exam I</td>
<td>Lourens</td>
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<td>Intro to Regional</td>
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<td>5</td>
<td>SAB</td>
<td>Lourens</td>
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<tr>
<td>6</td>
<td>Epidural / Caudal</td>
<td>Lourens</td>
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<tr>
<td>7</td>
<td>Group A, B, C (SAB Workshop)</td>
<td>Lourens</td>
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<tr>
<td>8</td>
<td>Exam II</td>
<td>Lourens</td>
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<td>ECT</td>
<td>Lampham</td>
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<td>Off Unit</td>
<td>Mason</td>
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<td>9</td>
<td>Caudal / Epidural Workshop</td>
<td>Lourens</td>
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<td></td>
<td>Eyes</td>
<td>Lourens</td>
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<td>10</td>
<td>Obesity and Endocrine Disorders</td>
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<td>Advanced Airway Lecture and Workshop</td>
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<td>Lourens</td>
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<td>Maxillofacial</td>
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<td>Pacemaker and Defibrillators</td>
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<td>Cardiac for Non-cardiac Surgery</td>
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<td>Stent Implications</td>
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<td>14</td>
<td>Extremity Regional Introduction</td>
<td>Lourens</td>
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<tr>
<td>15</td>
<td>Introduction to Pain Pathways</td>
<td>Lourens</td>
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<tr>
<td>16</td>
<td>Cumulative Final Exam</td>
<td>Lourens</td>
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