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

Standards Documents: The curriculum is guided by the following documents:

   http://www.aacn.nche.edu/education-resources/MastersEssentials11.pdf

Course Faculty: Gayle Lourens, BSN, MS, DNP, 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: Variable – Appointments arranged usually; however, available as needed for students in the Nurse Anesthesia Program to accommodate student’s 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 posted in the course communication section on Angel.

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 audiofiles
   • 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:

- Angel Help Line
  1-800-500-1554 (24 hours, 7 days/week)
  517-355-2345 (local; 24 hours, 7 days/week)

- Colleen Wager
  Graduate Clinical Program’s Secretary
  Phone: 517-432-0474
  E-mail: colleen.wager@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 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”**.
b. Grading scale:

<table>
<thead>
<tr>
<th>%</th>
<th>GRADE</th>
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<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>
</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>20%</td>
</tr>
<tr>
<td>Exam 2</td>
<td>20%</td>
</tr>
<tr>
<td>Exam 3</td>
<td>20%</td>
</tr>
<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 Caudal Workshop and Interprofessional Simulation Education Event. 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 in the Angel course site.
d. **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 ________________________________________________________
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.

e. 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:** 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.**
In order to facilitate a climate of academic excellence and integrity, the faculty of the College of Nursing adopted the following Honor Code. Students are expected to contribute to the legitimacy of their degree by confidentially reporting breeches to this honor code:

- I vow to hold myself and my peers to the highest measure of honesty and integrity
- I commit myself to respectful and professional conduct in all classroom and clinical interactions
- I will neither give nor receive any unauthorized assistance in completing my assigned academic work
- I will always prepare completely to care for my patients before attending clinical
- I will hold in confidence all personal matters coming to my knowledge in the practice of my calling
- I will do all in my power to maintain and elevate the standard of my chosen profession

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](http://nursing.msu.edu/MSN%20Programs/Handbooks/default.htm)
- Information for MSU Students: [http://www.msu.edu/current/index.html](http://www.msu.edu/current/index.html)
- Academic Programs: [http://www.reg.msu.edu/AcademicPrograms](http://www.reg.msu.edu/AcademicPrograms)
- Code of Teaching Responsibility and Student Assessments and Final Grades: [http://www.reg.msu.edu/AcademicPrograms/Print.asp?Section=514](http://www.reg.msu.edu/AcademicPrograms/Print.asp?Section=514)
- Integrity of Scholarship and Grades: [http://www.reg.msu.edu/AcademicPrograms/Print.asp?Section=534](http://www.reg.msu.edu/AcademicPrograms/Print.asp?Section=534)

University Policies:

**Academic integrity:** Article 2.3.3 of the [Academic Freedom Report](http://www.msu.edu/current/index.html) 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/](http://splife.studentlife.msu.edu/) and/or the MSU Web site: [www.msu.edu](http://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](http://www.allmsu.com) Web site to complete any course work in NUR 370. 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.
## Course Calendar:

<table>
<thead>
<tr>
<th>Week</th>
<th>Content/Topic</th>
<th>Faculty</th>
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</thead>
<tbody>
<tr>
<td>Week 1</td>
<td>• Neurophysiology</td>
<td>Lourens</td>
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<tr>
<td></td>
<td>• Neurological Conditions with Anesthetic Implications</td>
<td></td>
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<tr>
<td>Week 2</td>
<td>• Gastrointestinal Procedures</td>
<td>Mason</td>
</tr>
<tr>
<td></td>
<td>• Laparoscopic Implications</td>
<td></td>
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<tr>
<td>Week 3</td>
<td>• Anesthesia for the Older Adult</td>
<td>Lourens</td>
</tr>
<tr>
<td>Week 4</td>
<td>• Robotics (September 17)</td>
<td>Mason / Lourens</td>
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<tr>
<td></td>
<td>• <strong>Exam I</strong> (September 20)</td>
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<tr>
<td>Week 5</td>
<td>• Anesthesia Care for the OSA, OHS and Elevated BMI Patient</td>
<td>Goorin</td>
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<td></td>
<td>• Bariatric Procedures</td>
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<tr>
<td>Week 6</td>
<td>• Introduction to Regional (Pharmacology, SAB, Epidural)</td>
<td>Lourens</td>
</tr>
<tr>
<td>Week 7</td>
<td>• Regional Continued (Caudal, Extremity)</td>
<td>Lourens</td>
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<tr>
<td>Week 8</td>
<td>• Group A, B SAB Workshop (Oct 14)</td>
<td>Mason / ? / Lourens</td>
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<td></td>
<td>• ECT (Oct 15)</td>
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<tr>
<td></td>
<td>• <strong>Exam II</strong> (Oct 17)</td>
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<tr>
<td>Week 9</td>
<td>• Introduction to Off-Unit Procedures</td>
<td>Mason / Lourens</td>
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<td></td>
<td>• Interprofessional Simulation Event (Oct 25)</td>
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<tr>
<td>Week 10</td>
<td>• Anesthesia for Patients with ICDs and Pacemakers</td>
<td>Lourens / Mason</td>
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<td>• Advanced Airway Workshop (Nov 1)</td>
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<tr>
<td>Week 11</td>
<td>• Anesthesia for Patients with Renal Disorders</td>
<td>Mason / Lourens</td>
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<td></td>
<td>• Renal Procedures</td>
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<td></td>
<td>• Pain Pathways</td>
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<tr>
<td>Week 12</td>
<td>• <strong>Exam III</strong></td>
<td>Lourens</td>
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<td></td>
<td>• Differentiation between acute and chronic pain</td>
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<tr>
<td>Week 13</td>
<td>• Group A &amp; B Caudal and Epidural Workshop (Nov 18)</td>
<td>Lourens / Mason</td>
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<tr>
<td>Week 14</td>
<td>• Anesthesia for Gynecological Procedures</td>
<td>Lourens</td>
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<td></td>
<td>• Obstetrics</td>
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<tr>
<td>Week 15</td>
<td>• Obstetrics</td>
<td>Lourens</td>
</tr>
<tr>
<td>Week 16</td>
<td>• <strong>Cumulative Final Exam</strong></td>
<td>Lourens</td>
</tr>
<tr>
<td></td>
<td>• <strong>16 weeks in semester</strong></td>
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</tbody>
</table>