# NURSE ANESTHESIOLOGY SUPPLEMENTAL HANDBOOK

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## **Program Overview**

#### Purpose of the Nurse Anesthesiology Supplemental Handbook

The DNP Nurse Anesthesiology Supplemental Handbook contains information, policies, and procedures specific to the Michigan State University (MSU) Nurse Anesthesiology Program (NAP). Nurse anesthesia students enrolled in the NAP are also subject to the policies and procedures contained within the College of Nursing Core Handbook and the Michigan State University Spartan Life Handbook. An electronic copy of the Nurse Anesthesiology Supplemental Handbook is located on the College of Nursing (CON) website under "Student Resources".

The policies and procedures in the NA Supplemental Handbook may be subject to change. If change occurs, students will be notified via MSU e-mail. Please direct questions specific to content within the Nurse Anesthesiology Supplemental Handbook to the NAP Director.

#### Program Mission, Philosophy, Strategies, and Accreditation

#### Philosophy

The practice of nurse anesthesiology rests upon a sound foundation of arts and sciences that prepares graduates to excel in a rapidly changing, diverse, and technologically advanced society. Active participation in MSU's Land Grant Mission provides opportunity for a student's personal and professional growth. The program's teaching and learning activities are evidence-based, patient-centered, and driven by projected changes in anesthesia practice. The NAP faculty serve as a students' guide, mentor, and role model.

#### Mission

The NAP is committed to providing an innovative, scientifically founded, quality education and preparing nurse anesthesia leaders who deliver and advocate for ethical, safe, competent, cost-effective anesthesia services in an ever-changing, diverse health care environment.

This mission is accomplished through the following strategies as defined by the acronym "SPARTY":

S tudent-centered education

**P** ractice/learning opportunities that reflect the ever-changing healthcare landscape needs of our patient populations

A ttitudes that are positive, empathetic, inclusive and foster a culture of belonging

**R** etention initiatives that support individual academic growth, wellness and well-being

**T** eaching excellence that is innovative, scientifically founded and forward thinking

Y ear-round faculty and resource accessibility

#### Accreditation

The MSU College of Nursing's programs are accredited by the Commission on Collegiate Nursing Education (CCNE). The NAP is accredited by the Council on Accreditation of Nurse Anesthesia Educational Programs (COA), a specialized accrediting body recognized by the Council for Higher Education and the United States Depart of Education. The NAP its 10 year accreditation in 2013 and its next accreditation review is scheduled for April 2024.

Contact information for COA:

10275 W. Higgins Rd., Suite 906 Rosemont, IL 60018-5603 Phone: 224-275-9130

#### Program Description and Trajectory

The NAP is a rigorous, 36-month, full-time program that exceeds the clinical and didactic requirements set by the COA (see Appendix A for minimum didactic requirements and Appendix B for minimum clinical requirements) and the American Association of Colleges of Nursing's Essentials of Doctoral Education for Advanced Nursing Practice (2006). The nurse anesthesia curriculum combines didactic and clinical experiences that emphasize critical thinking, scientific inquiry, and effective interpersonal, interprofessional, and psychomotor skills (see Appendix C for curriculum crosswalk). The curriculum is sequenced to build on previously acquired knowledge and skills (see Appendix D for the program trajectory). Content is delivered through face-to-face, online, simulated, and clinical instruction.

Doctoral students enrolled in the NAP are required to complete a scholarly project (DNP project). The DNP project is embedded in the NUR 995, 996 and 997 courses. More information on the DNP project can be found in the DNP Project Handbook available in the project courses.

#### **Transfer Credits**

Up to 25% of graduate coursework (excluding DNP project credits) may be transferred into the DNP program from an accredited program. In accordance with MSU policy, these credits:

- Must have been obtained from an accredited educational institution;
- Have been completed no more than 3 years prior to program matriculation.

The transfer of course credits from other institutions may be completed through the following procedure:

- When possible, obtain written permission from the faculty advisor and program director before enrolling in a course at another university.
  - Send a copy of this written permission to: College of Nursing Student Affairs, located in the Bott Building for Nursing Education and Research: 1355 Bogue Street, Room C120 East Lansing, Michigan 48824-1317

- When the course is completed at another institution, request that official transcript of the grade(s) be sent to the College of Nursing Student Affairs.
- Students must submit the course syllabi and an official transcript for review when requesting credit for transfer courses completed without prior approval.
  - Materials should be submitted to the College of Nursing, Office of Student Affairs

#### **Academic Standards**

#### Reasonable Time Commitment

The nurse anesthesia student must be able to devote the time necessary to be successful in the NAP. In accordance with the COA's definition of "Reasonable Time Commitment" and Clinical Site Standards (criterion F-9), a reasonable number of hours to ensure patient safety and successful student learning should not exceed 64 hours per week (clinical and class time) averaged over 4 weeks. Additional time is required for study, pre/post-operative visits, formulating anesthesia management plans, and completion of the doctoral project.

In programs across the United States (including the MSU NAP) students report an average commitment of 50-60 hours per week.

#### Faculty Advisors

All students in the NAP will be assigned a NA faculty advisor. The Michigan State University Graduate School defines the duties of CON faculty advisors in the MSN and DNP degree programs. Faculty advisors are expected to:

- Be a mentor for their advisees
- Demonstrate professional role modeling
- Serve as DNP project faculty mentors
- Develop a plan of study in collaboration with the program director

Faculty advising provides an opportunity for mentoring and professional guidance in a collegial and safe environment. Socialization and mentoring are best achieved in a mutually responsive relationship. Students are expected to:

- Make regular contact with their faculty advisor, at least once per semester
- Respond to all faculty advisor communication within a reasonable timeframe
- Communicate any changes in circumstances that may impede ability to complete coursework as required

All university communication between student and faculty advisor must be done through MSU email (@msu.edu). Students may initiate a change of advisor assignment by contacting the Office of Student Affairs and completing the CON Request to Change Faculty Advisor Form

(Appendix I). The CON re-assigns the faculty advisor after consultation with the appropriate parties.

#### **Annual Progress Reports**

All students complete an annual progress report in collaboration with their faculty advisor, in fulfillment of MSU's Graduate School requirements. The annual progress report is a part of the electronic student academic file and needs to be completed and submitted to the Office of Student Affairs by April 1st.

#### In-Course Communication

When a student has a concern related to a course, it is expected that the student contact and seeks resolution with the course faculty first. Use the faculty's preferred method of contact as identified in the course syllabus. Respectful and professional communication between peers and course faculty is expected. An email template and communication flow diagram is available to assist students in Appendix E.

#### **Grading Scale**

The standard College of Nursing graduate program grading scale will be used for all NUR courses:

%	GRADE
100 - 94	4.0
93-87	3.5
86 – 80	3.0
	(Minimum passing grade)
79 – 75	2.5
74 – 70	2.0
66 – 65	1.5
64 – 60	1.0
Below 60	0.0

#### Progression in the Program

Progression in the NAP requires:

- A 3.0 cumulative GPA;
- A minimum of a 3.0 in each required NUR course

If a grade below a 3.0 is attained, the dismissal process will be initiated. Students may request permission to repeat a course in which a grade of 2.5 was received by following the reinstatement process outline under the *Dismissal and Reinstatement Process Heading*. NOTE: NAP Clinical Courses (NUR 975, 976, 077, 978, 979 & 980) *cannot* be repeated.

#### Dismissal

Nurse Anesthesiology students may be dismissed from the NAP for deficiencies in didactic course work, clinical performance, falsification of documents, loss of or restriction placed on their Registered Nurse license, behavior inconsistent with the American Nurses Association and American Association of Nurse Anesthesiology Code of Ethics, the University and College's Code of Conduct and nonadherence with the University, College, Program and affiliate clinical site's policies and procedures.

#### Reinstatement Process

Any student seeking reinstatement to the College of Nursing must write a letter to the Associate Dean for Academic Affairs (ADAA) which includes the following:

- Explanation of the student's withdrawal or dismissal
- Reason for seeking reinstatement to the student's respective Program Director
- For students who have withdrawn from their program: an explanation of how the circumstances that led to their withdrawal have changed
- For students who have been dismissed from their program: a detailed plan for success in their program moving forward, including recommendations from their academic advisor.
- Which semester the student wishes to return

Upon receipt of request for reinstatement the ADAA or designee will respond to the student through MSU email to inform them that their request has been received and is being processed.

The ADAA or designee will contact the course faculty, program director, and faculty advisor (if applicable) to receive input on the student's potential for success and recommendation regarding reinstatement. Upon reaching a decision in collaboration with program faculty, the ADAA or designee will inform the student of their reinstatement decision. *All final reinstatement decisions are dependent on course space availability*.

#### **Student Grievance and Hearing Procedures**

The Academic Freedom for Students at Michigan State University (AFR) and the Graduate Student Rights and Responsibilities (GSRR) documents establish the rights and responsibilities of MSU students and prescribe procedures for resolving allegations of violations of those rights through formal grievance hearings. In accordance with the AFR and the GSRR, the College of Nursing has established the following College Hearing Board procedures for adjudicating academic grievances and complaints.

AFR Article 6 - Academic Hearing Board Structures:

http://splife.studentlife.msu.edu/student-rights-and-responsibilities-at-michigan-state-university/article-6-academic-hearing-board-structures

AFR Article 7 - Adjudication of Academic Cases:

http://splife.studentlife.msu.edu/student-rights-and-responsibilities-at-michigan-state-university/article-7-adjudication-of-academic-cases

GSRR Article 5 - Adjudication of Cases Involving Graduate Student Rights and Responsibilities: <a href="http://splife.studentlife.msu.edu/graduate-student-rights-and-responsibilities/article-5-adjudication-of-cases-involving-graduate-student-rights-and-responsibilities">http://splife.studentlife.msu.edu/graduate-student-rights-and-responsibilities/article-5-adjudication-of-cases-involving-graduate-student-rights-and-responsibilities</a>

#### Composition of the College of Nursing Hearing Board:

- A. The college shall constitute a College Hearing Board pool no later than the end of the tenth week of the spring semester.
- B. For hearings involving advanced practice students, the College Hearing Board shall include the chair of the Advanced Practice Program Committee (APPC) or a designee, two faculty, and two designated students. Faculty alternates to the College Hearing Board will be selected from APRN faculty members; student alternates will be selected according to the procedures established by the Student Advisory Council. If needed, additional alternates will be appointed by APPC. (See AFR 6.II.B, C, and D.)
- C. The chair of the College Hearing Board shall be a hearing board member with faculty rank. All members of the College Hearing Board shall have a vote, except the chair, who shall vote only in the event of a tie. (See AFR 6.II.C.)
- D. The college will train hearing board members about these procedures and the applicable sections of the AFR. (See AFR 7.IV.C.)

#### Leave of Absence

Students who have completed courses in the program may submit a request for a leave of absence for no more than one year (three academic semesters). A new plan of study should be developed in collaboration with the faculty advisor and program director. The decision to approve/disapprove leave requests is at the discretion of the ADAA.

Students who stop academic progress for more than three semesters without an approved and current plan of study are subject to dismissal from the program. Reinstatement in the program is based on compliance with the plan of study and availability of space and resources in the required courses.

#### Reinstatement After Lapse in Enrollment

Graduate students who have stepped away for three academic semesters or more must request readmission in a letter to the ADAA by February 1 for Fall semester, August 1 for Spring semester, or December 1 for Summer semester addressing the following:

- Reason for seeking readmission
- Reason for withdrawal/dismissal
- How his/her situation has changed in the interim
- Response to any recommendations that may have been made at the time of

withdrawal/dismissal

• Which semester the student wishes to return

Requests for reinstatement should be sent to the Office of Student Affairs and ADAA. The final decision for readmission will be determined by the dean and ADAA who will notify the student in writing of the final decision.

Students who have failed to enroll for more than one academic year must also

- Complete and submit a University Application for Readmission (available online at www.reg.msu.edu, click on Readmissions) at least two months prior to the first day of registration.
- Complete and submit necessary compliance documentation including completion of a new background check and drug screen.

#### **Program Extension**

Students enrolled in the NAP are expected to complete all graduation requirements in 36 months. At the discretion of the NAP Director and ADAA, a student's course of study may be extended beyond the 36 months if a student, **who is in good academic standing**, does not complete the graduation criteria, academic coursework, or COA required minimal case requirements as recorded in the Typhon Nurse Anesthesia Student Tracking System<sup>TM</sup>.

#### BSN to DNP Program: Concentration Change Policy

This policy applies to students currently enrolled in the Clinical Nurse Specialist, Nurse Practioner or Nurse Anesthesiology programs who wish to change to another advanced practice concentration:

- Students wishing to change to the Nurse Anesthesiology concentration need to follow the complete admissions process outlined on the MSU College of Nursing website.
- Students considering a concentration change must be in good standing in their current program, maintaining a 3.0 GPA or higher in every course.
- The following process will be followed:
  - 1. The student will arrange a meeting with their faculty advisor and current program director to discuss their interest in changing their current program concentration.
  - 2. The student will compose an essay documenting their rationale for why they would like to make a program change.
  - 3. The student will submit their essay to the program director of the desired concentration and the graduate advisor in the Office of Student Affairs
  - 4. The student will complete an interview with the program director of the desired concentration.
  - 5. The request to change concentrations will be submitted by the program director of the desired concentration for review by the Advanced Practice Program Committee (APPC) for final approval. All decisions made by the APPC are final.

#### **Graduation Criteria**

A student will be eligible to take the Nation Certification Examination (NCE) administered by the National Board of Certification and Recertification for Nurse Anesthetists (NBCRNA) only after they have met the NAP End of Program Outcomes (Appendix F), the COA Doctoral Graduate Standards (Appendix G), and minimum case requirements (Appendix B). The NAP Director initiates the National Certification Exam process at the completion of the 36-month program. Students will not be released to take the NCE prior to MSU's graduate commencement.

## **Program Policies and Procedures**

#### **Compliance Requirements**

In addition to the compliance requirements listed in the <u>CON Core Handbook</u>, nurse anesthesia students must complete an *annual drug screen* and possess a current American Heart Association Advanced Cardiac Life Support (ACLS) and Pediatric Advanced Life Support (PALS) certification. *Any student who is out of compliance with the CON and NAP compliance policies will be disenrolled from classes and removed from clinical.* 

#### Responsibility Conduct of Research, Scholarship, and Creative Activities (RCRSA):

Michigan State University requires that all graduate students be trained in the RCRSA basic educational requirements. The CON's plan to meet the RCRSA requirements can be found in Appendix H. This plan includes completion of the Collaborative Institutional Training Initiative (CITI) training modules and a minimum of six hours of discussion-based training. In accordance with the MSU policy, all RCRSA education requirements are to be completed by the end of the spring semester of year two. More information can be found

at: https://grad.msu.edu/researchintegrity

- CITI Training Modules available at: https://ora.msu.edu/train/
- Human Research Protection and IRB Certification available at: <a href="https://hrpp.msu.edu/training/index.html">https://hrpp.msu.edu/training/index.html</a>

#### **Program Attendance**

Students begin the program on the opening day of summer semester according to the MSU academic calendar and are enrolled for nine semesters (36 months) on a full-time basis. During the first three semesters of the program (summer, fall, spring), time off occurs in accordance with the MSU academic calendar.

Except for MSU designated holidays (see MSU <u>academic calendar</u>) second and third-year students will be *continuously* enrolled (no breaks between semesters) in clinical courses for the last 6 semesters. Second and third-year students are given 10 (8 hour) days per year (20 days total) for personal or sick time.

• These days cannot be rolled from one year to another (banked)

- These days cannot be used the last 4 weeks of the program
- No more than two days of personal or sick time can be taken per clinical rotation without approval by the Program Director or Assistant Program Director
- Students enrolled in NUR 976 (Clinical Practicum II) can only take 1 personal day per month
- Sick or personal days that extend beyond the 10 allotted days will be made *up at the* end of the program.

#### Process for using sick or personal time:

- When possible, collaborate with the clinical course faculty to schedule personal days prior to release of the clinical schedule
- To use personal or sick days on an assigned clinical day:
  - o Follow the clinical site's call-in procedure
  - o Notify the Assistant Program Director through the MSU E-mail system.
- Failure to follow the call-in procedure is considered a serious offense as students assigned to surgical cases are considered an integral part of the surgical team. Unexcused absences impact patient care and anesthetic workflow.

#### Attendance for on-campus classes

Attendance for on-campus courses is *mandatory*. A student who is unable to attend an on-campus class will:

- Notify the course faculty before the start of the class (see course syllabus for the faculty's preferred method of contact)
  - In the event of an emergency in transit to class, notify the course faculty or a cohort member by any means possible (text, call) if feasible.
- Be solely responsible for acquisition of missed course content

#### Observed Holiday Policy

MSU permits students to observe holidays set aside for their chosen religious faith. More information can be found at <a href="https://inclusion.msu.edu/hiring/religious-observance-holidays.html">https://inclusion.msu.edu/hiring/religious-observance-holidays.html</a>. Students are asked to communicate with their faculty to facility compliance with the policy.

#### AANA and MANA Meeting Attendance Policy

Students are required to attend two Michigan Association of Nurse Anesthetist state meetings and at least one American Association of Nurse Anesthesiologists-sponsored meeting (Mid-Year Assembly, Annual Congress, Assembly of Didactic and Clinical Educators) while in the program.

Students are also expected to attend Michigan Association of Nurse Anesthetist Student meetings. Participation in additional educational, community, program, or political opportunities is part of professional development and is expected.

#### Time Off for NAP Related Educational Activities Procedure

To request time off for educational offers that impact clinical or didactic schedules, the student will:

- Seek approval from the Program Director or Assistant Program Director
- Request time off via MSU e-mail at least 45 days prior to the scheduled event

Approved educational time does not require time withdrawal from a student's personal or sicktime bank.

#### **Employment Policy**

NA students who engage in outside employment while in the program are encouraged to keep NAP time commitment factors in mind when scheduling work shifts. Nurse anesthesia students are required to have <u>at least</u> eight (10) hours off between work and class or a nurse anesthesia program clinical shift.

Under no circumstances may a NA student seek employment as a Nurse Anesthetist by title or function before successful completion of the program. This practice is prohibited not only by program policy but by law.

#### **Communications Policy**

All NA students are required to check Desire2learn (D2L), MSU's official course management system, and MSU e-mail daily (except during authorized time off) and follow directives in the message. Correspondence sent through *personal* e-mail outside of the MSU e-mail system will not be answered and is considered "no communication".

#### **Self-Evaluation Exam**

NA Students will purchase and complete the NBCRNA Self Evaluation Exam (SEE) twice during the program.

- The first exam will be taken in May-June of year two. Students are required to score a 400 or better in the following categories: Basic Sciences, Equipment, Instrumentation, Technology & Basic Principles of Anesthesia.
- The second exam will be taken in January of year three. Students are required to score a 430 or better in *all* exam categories.
- Students who do not meet these benchmarks will participate in a remediation process that includes the development of clearly defined review plan, internal exams, scheduled study time and a third SEE.

#### **Inclement Weather Policy**

The Inclement Weather Policy is located in the <u>Core CON Handbook</u>. The following NAP guidelines will aid in the student and program's administrative decision-making process:

• In the event the university closes prior to the start of the class or clinical, students should remain home. Students will not be required to make up clinical shift.

- In the event the university closes during a didactic class, students will be sent home. If
  the University closes during a clinical shift, students will consult with the course faculty
  and clinical site coordinator to determine if it is safe for the student to remain at the
  clinical site and finish the case or shift. Students will not be required to make up the
  shift.
- In the event the university is *open*, but a clinical facility is closed due to weather or other conditions, the student is not required to report to the facility nor any other open clinical facility. The student is required to notify the <u>clinical course faculty</u> who, in collaboration with the clinical site coordinator, will reschedule the missed clinical shift.
- In the event the university is open and a clinical facility is open but not operating an elective surgical schedule, the student should contact the clinical site coordinator to determine if he or she should report to the clinical site. The student is required to notify the clinical course faculty if they have been advised to stay home or leave the clinical site early. If the student is dismissed from the clinical site, the clinical day will not be rescheduled. If the student remains home, the course faculty, in collaboration with the clinical site coordinator, will reschedule the clinical shift.
- In the event the university and the clinical facility are open during inclement weather, students should use their best judgment to ensure personal safety. Notify the <u>clinical course faculty</u> if a personal decision is made to not attend clinical. <u>Follow the clinical site's call-in procedure.</u> Students may choose to use a personal day or these days will be rescheduled by the course faculty in collaboration with the clinical site coordinator

#### **Clinical Education Policies and Procedures**

#### Clinical Attendance

Clinical attendance is mandatory. See the Program Attendance Policy for more information on how to use personal / sick time and the procedure (page 10).

At no time may students arrange for clinical experiences in non-affiliate clinical sites, outside of their designated rotation schedule or during designated time off.

#### Rescheduling or Altering Clinical Days

Clinical site coordinators may **not** reschedule clinical make-up days. Instead, the clinical course faculty and the affiliate clinical site's coordinator will collectively determine when the student will make up the missed clinical day(s).

Under no circumstances may a student alter the distributed clinical schedule or schedule clinical make-up time without the Assistant Director's approval. Requests for changes in the clinical schedule must be generated through MSU e-mail and approved by the clinical course

faculty. Altering the clinical schedule without approval is impacts the program's affiliation relationship and is considered a serious offense.

If a student wishes to extend their clinical shift more than 3 hours beyond the assigned time, the student should notify the course faculty. This can be done via e-mail, phone call, or text.

#### **Dress Code**

NA students are expected to dress <u>consistent</u> with the <u>professional image of a registered nurse</u> in an advanced <u>practice graduate program</u> while at the university. In the clinical setting:

- Students are responsible for following the clinical site's dress policies and procedures
- Proper surgical attire must be worn in any situation that involves perioperative patient contact
- Students shall follow the clinical site's policy on wearing jewelry, artificial fingernails, facial hair, body art, and personal scrub attire
- MSU or facility-issued identification badges must be worn while in the hospital/clinic setting.
- Students must use personal protective equipment in accordance with hospital or clinic policies and procedures.

#### **Clinical Practicum Rotations and Travel Requirements**

To optimize the time spent during the clinical practicum, the NA student must actively seek learning experiences and function in a self-directed manner to acquire the knowledge, skills, and abilities necessary to practice as a graduate CRNA. The program will consider geographical proximity to the student's home residence when developing the clinical schedule. However, students will be required to travel to clinical sites to obtain required clinical experiences. Students are responsible for the expenses incurred for clinical travel and lodging.

The following list indicates current clinical affiliate sites:

- Ascension St John Hospital, (Moross) Detroit Michigan
- McLaren Greater Lansing, Lansing, Michigan
- St. John Macomb-Oakland Hospital, Macomb Center, Warren, Michigan
- Ascension Providence Hospital, Southfield, Michigan
- Ascension Providence Hospital Novi Campus, Novi, Michigan
- Henry Ford Allegiance Health, Jackson, Michigan
- Henry Ford West Bloomfield, West Bloomfield, Michigan
- Henry Ford Health System, Detroit, Michigan
- Sparrow Medical Center, Lansing, Michigan
- Mercy Health St Mary's Campus, Grand Rapids, Michigan
- Trinity Health Muskegon Hospital, Muskegon, Michigan
- Corewell Trenton, Trenton, Michigan
- Gerber Memorial Hospital, Fremont, Michigan
- Bronson Hospital, Kalamazoo, Michigan
- Oaklawn Hospital, Marshall, Michigan

- Hillsdale Community Hospital, Hillsdale, Michigan
- Owasso Memorial Hospital, Owasso, Michigan
- Hurley Medical Center, Flint, Michigan
- Henry Ford Macomb, Macomb, Michigan

Other clinical sites may be added to meet the needs of the program.

#### **Clinical Supervision**

Supervision at clinical sites is limited to **CRNAs and anesthesiologists** who are institutionally credentialed to practice and immediately available for consultation. Clinical supervision in non-anesthetizing areas is restricted to experts who are credentialed and authorized to assume responsibility for the student.

#### **Clinical Supervision Ratios**

During the student's junior year, the student to clinical instructor ratio is 1:1. At the discretion of the clinical instructor and in accordance with the clinical site's policies, students in their second semester of clinical practicum may be left alone however, the clinical instructor must always be readily available to the student.

During the student's senior year, the student to clinical instructor ratio may increase to 2:1 if the students has demonstrated competency in safely managing an anesthetic, the complexity of the anesthetic and surgical procedure is appropriate for the student's skill level, and the supervising CRNA or anesthesiologist is immediately available. *At no time may the number of students directly supervised by an individual clinical instructor exceed 2:1.* At no time may the student be used to augment anesthesia staffing due to an anesthesia provider shortage.

#### On-Call Experiences

On-call is defined as a planned clinical experience outside the normal operating hours of the clinical facility. Call experiences in the NAP include:

- Hours that fall between 5pm 7am
- Weekend shifts

Students may be assigned to a 24-hour call experience. At no time may a student provide direct patient care for a period longer than 16 continuous hours. Students must have a 10-hour rest period between scheduled clinical duty periods.

- When there is potential conflict between the call experience and the next morning's scheduled surgery, the supervising anesthesia provider will determine which experience is more beneficial to the student and provide time off as described above.
- Students may contact the Program Director or Assistant Program Director for direction if conflict between on-call and scheduled shifts occur.

When a student is "called in" during an on-call shift, there must be a qualified nurse anesthetist or anesthesiologist present *on site* and immediately available to the student. At no time may a student initiate anesthetic care without supervision.

#### Affiliate Clinical Site Policies and Procedures

Students rotating through an affiliate clinical site must complete the facility's on-boarding processes and follow the policies and procedures of the institution and department. Failure to follow the clinical site's policies and procedures may result in dismissal.

#### Management Plan and Clinical Evaluation Instruments

The Anesthesia Management Plan will be used as a guide to formulate an anesthesia plan of care for patients to whom students are assigned. The Anesthesia Management Plan will be discussed with the clinical preceptor prior to the beginning of each case. Students are expected to come to clinical prepared to discuss their proposed plans of care for each assigned patient.

The daily Clinical Evaluation Form will be used to assess the progression of each student during the practicum experiences. Students are responsible for assuring completion of the Clinical Evaluation.

#### Nurse Anesthesia Student Tracking System<sup>TM</sup> (NAST)

The NA Program uses a web-based clinical student tracking system developed and maintained by the Typhon Group. The NAST serves two purposes. First, it documents student progress toward completing the required clinical experiences, end of program outcomes, and COA graduate standards. Second, it assists the faculty and student in selecting the most appropriate clinical experiences.

- Students will be provided an orientation to the NAST and Guidelines for Counting Clinical Experiences located on the <u>Council on Accreditation Webpage</u> prior to clinical emersion.
- Clinical experiences must be entered and recorded in the NAST within 72 hours.
- Questions regarding on clinical data entry should be directed to the Program Director or Assistant Program Director
- Students should check the accuracy of the personal information and clinical experiences monthly
- Falsification of clinical documentation is a serious offense and grounds for immediate dismissal.

#### Prior to a Clinical Rotation - Check List

- Complete clinical site on-boarding documents
- Review the clinical site's policies, procedures, parking, and dress code information
- Initiate contact with the clinical coordinator at least 7 days before the rotation begins (some sites require contact before 7 days see onboarding documents for each site)

- If there is no response from the clinical coordinator within 48 hours of an attempt to contact, notify the course faculty
- Obtain clinical badge, parking, department access codes, and medication codes (if required)

#### Daily Clinical Rotation - Check List

- At beginning of the day, provide the clinical instructor with Anesthesia Management
   Plan and Clinical Evaluation Instrument
- Pre-brief each case
- De-brief each case
- Complete the student self-evaluation and goals section of the Clinical Evaluation Instrument (required)
- Enter clinical experiences into NAST
- Return completed evaluations to the assistant program director

#### End of Rotation - Check List

- Thank clinical coordinator and instructors
- Return hospital property (identification badges, parking)
- Complete an End-of-Rotation site evaluation located in NAST

#### **Student Time Logs**

Intermittently during the program, students may be required to complete time logs documenting the number of hours they spend in didactic and clinical activities. This information will be used to monitor program demands on student time.

#### Malpractice Insurance

Michigan State University provides malpractice insurance for students enrolled in the Nurse Anesthesia Program.

#### **Out of Pocket Expenses**

In addition to block tuition, students may encounter out-of-pocket expenses associated with living costs, travel, clinical site rotations and professional conference travel. The program is committed to limiting these out-of-pocket costs when possible. An estimate of out-of-pocket expenses can be found in Appendix J.

# **Student and Program Evaluation**

Both formal (summative) and informal (formative) feedback is an important component of student and program performance improvement.

Students will receive feedback from the faculty and program administration in the following ways:

- Semester progress report if demonstrating deficiencies (summative)
- Daily clinical evaluations (summative)
- Simulation performance feedback (formative and summative)
- Self-Evaluation Exam (SEE)
- Summative Semester Evaluation
- Annual Progress Report (summative)

#### Students will self-evaluate in the following ways:

- Semester Progress report if demonstrating deficiencies
- Self-evaluation on the Clinical Evaluation Form
- o Review of in-course assignment work test scores and faculty feedback
- o Self-evaluation on the Semester Summative Evaluation
- Self-evaluation on the Annual Progress Report
- o Self-evaluation of performance on the SEE

Program effectiveness and quality is measured by the students in the following ways:

- Mid-semester surveys (formative)
- End-of-semester Student Perceptions of Learning Survey [summative]
- End of Clinical Rotation Evaluation (summative)
- End of Program Evaluation (summative)
- Six-month Alumni Survey (summative)
- Employer Survey (summative)
- SEE and NCE test scores

#### **Post Master's DNP Students:**

All students completing the post-masters DNP program must have a minimum of 1000 faculty supervised clinical hours by the end of the program. Graduates from COA accredited NA programs will verify their acquired clinical hours during their master's anesthesia program. As the required clinical hours for the masters anesthesia programs exceeded the 1000 supervised clinical hour requirement, CRNAs will not be required to obtain additional supervised clinical hours.

The DNP project hours will be tracked by the student on an Excel sheet with a brief description of the project activity. These hours will be reviewed by the faculty advisor. Project hours may include the following activities:

- Observational and/or meeting time with project team
- Organizational planning (meetings, development of meeting materials)
- Attending seminars, meetings with consultants related to project
- Leadership development activities
- Evaluating evidence that supports the project
- Producing educational materials related to the project

- Developing assessment and evaluation tools for the project
- Developing presentations
- Engaging in policy development
- Presentation of findings

Additional activities may qualify as DNP project hours. Students may consult with their faculty project advisor for questions and clarification.

## **Appendix A**

#### **Council on Accreditation Minimal Academic Curriculum**

The COA has a minimal academic curriculum for nurse anesthesia programs that includes:

- A minimum of 120 contact hours in Advanced Physiology and Pathophysiology
- A minimum of 90 contact hours in Advanced Pharmacology
- A minimum of 120 contact hours in Basic and Advance Principles of Anesthesia
- A minimum of 45 contact hours in Research / Scholarship
- A minimum of 45 hours in Advanced Health Assessment
- And content that includes:
  - Human Anatomy
  - o Chemistry, Biochemistry
  - Physics
  - Genetics
  - Acute and Chronic Pain Management
  - o Radiology, Ultrasound, Anesthesia Equipment
  - Professional Role Development
  - Substance Use Disorders and Wellness
  - o Informatics, Health Policy, Leadership
  - o Business Models, Practice Management, Healthcare finance
  - Clinical Correlation and Integration

## **Appendix B**

# **Council on Accreditation Minimal Clinical Experiences**

The minimum number of clinical hours is 2,000. Clinical hours include time spent in the actual administration of anesthesia and other time spent in the clinical area. This includes:

- Time spent administering an anesthetic
- In-house call
- Pre- and post-anesthetic assessment
- Patient preparation
- Operating room or procedure room preparation
- Clinical rounds

As a program, we strive to meet or exceed the preferred number of clinical case experiences. The minimum required cases for graduation from any accredited program include:

CLINICAL EXPERIENCES	Minimum Required	Preferred Number of
	Cases	Cases
Patient Physical Status		
Class I		
Class II		
Classes III-VI (total of a, b, c, & d)	200	300
a. Class III	50	100
b. Class IV	10	100
c. Class V	0	5
d. Class VI		
Total cases	650 <sup>†</sup>	700
Patient Assessment <sup>†</sup>		
Initial preanesthetic assessment <sup>†</sup>	50	100
Postanesthetic assessment <sup>†</sup>	50	150
Comprehensive history and physical <sup>†</sup>		
a. Actual <sup>†</sup>		
b. Simulated <sup>†</sup>		
	•	
Special Cases  Geriatric 65+ years	100	200
·	100	200
Pediatric		
Pediatric 2 to 12 years	30	75
Pediatric (less than 2 years)	10	25
Neonate (less than 4 weeks)		5

CLINICAL EXPERIENCES	Minimum Required Cases	Preferred Number of Cases
	1	
Trauma/emergency (E)	30	50
Obstetrical management (total of a & b)	30	40
a. Cesarean delivery	10	15
b. Analgesia for labor	10	15
Pain management encounters (see Glossary, "Pain management encounters")	15	50

Anatomical Categories<sup>5</sup>

Anatomical Categories		
Intra-abdominal	75	
Intracranial (total of a & b)	5	20
a. Open	3	10
b. Closed		
Oropharyngeal	20	
Intrathoracic (total of a, b, & c)	15	40
a. Heart		
Open heart cases (total of a & b)	5	10
a) With cardiopulmonary bypass		
b) Without cardiopulmonary bypass		
2. Closed heart cases		10
b. Lung	5	
c. Other		
Neck	5	10
Neuroskeletal	20	
Vascular	10	30

CLINICAL EXPERIENCES	Minimum Required Cases	Preferred Number of Cases
Methods of Anesthesia		
General anesthesia	400	
Perform a general anesthetic induction with minimal or no	50	100
assistance <sup>†</sup>		
Inhalation induction	25	40
Mask management <sup>6</sup>	25	35
Supraglottic airway devices (total of a & b)	35	50
a. Laryngeal mask		
b. Other		
Tracheal intubation (total of a & b)	250	
a. Oral		
b. Nasal		5
Alternative tracheal intubation/endoscopic techniques <sup>7</sup>	25	50
(total of a & b ) (see Glossary, "Alternative tracheal		
intubation techniques")		
a. Endoscopic techniques <sup>8</sup> (total of 1 & 2)	5	15
Actual tracheal tube placement		
Simulated tracheal tube placement		
Airway assessment		
b. Other techniques	5	25
Emergence from anesthesia	300	

	CLINICAL EXPERIENCES	Minimum Required Cases	Preferred Number of Cases
Regional te	echniques		
	ual administration (total of a, b, c, & d)	35	
а.	Spinal (total of 1 & 2)	10	50
- a.	1. Anesthesia	10	30
	Pain management		
b.		10	50
D.	Epidural (total of 1 & 2)  1. Anesthesia	10	50
	Anestnesia     Pain management		
c.	Peripheral <sup>9</sup> (total of 1 &2)	10	50
- ·	1. Anesthesia	10	30
	Upper		
	Lower		
	2. Pain management		
	Upper		
	Lower		
d.	Other <sup>10</sup> (total of 1 & 2)		
	1. Anesthesia		
	2. Pain management		
		25	
Mai	nagement (total of 1 & 2)	35	50
	1. Anesthesia		
	2. Pain management		
Moderate/	deep sedation	25	50

CLINICAL EXPERIENCES	Minimum Required Cases	Preferred Number of Cases
Arterial Technique		
Arterial puncture/catheter insertion	25	
Intra-arterial blood pressure monitoring	30	
Central Venous Catheter		
Placement 12 – Non-PICC (total of a & b)	10	15
a. Actual		5
b. Simulated		
Placement – PICC (total of a & b)		
a. Actual		
b. Simulated		
Monitoring	15	
Pulmonary Artery Catheter Placement		5
Monitoring		10
Other Ultrasound-guided techniques (total of a & b)	20 <sup>†</sup>	
a. Regional <sup>13</sup>	10 <sup>+</sup>	
1. Actual regional <sup>†</sup>		
2. Simulated regional <sup>†</sup>		
b. Vascular <sup>14</sup>	10 <sup>+</sup>	
1. Actual vascular <sup>†</sup>		
2. Simulated vascular <sup>†</sup>		
Point of Care Ultrasound (POCUS) <sup>†, 15</sup>		
a. Actual <sup>†</sup>		
b. Simulated <sup>†</sup>		
Intravenous catheter placement	100	
Advanced noninvasive hemodynamic monitoring		
Assessment of chest X-ray <sup>+, 16</sup>	5	10

# **Appendix C**

# **Nurse Anesthesia Program Curriculum Crosswalk**

NUR 966 Applied Chemistry and Physics of Anesthesia Practice (3 credits)

Combined coverage of chemical and physical principles and their applier content and anotherists delivery systems and anotherists delivery systems are anotherists.  3. Decrease considerable with the principles of physical part of the principles of physical pasts of cellular and dissue function. The consequences of disregulation on essential homeostatic processes in cellular and dissue function. The consequences of disregulation on essential homeostatic program systems organisms and primary organ systems.  2. Apply knowledge of functional mechanisms and their regulation to explain the underlying physiological coments are an understanding of physiological and pathophysiology commandments and primary organ systems.  3. Develop patient-specific perioperative and understanding of physiological and pathophysiology and pat		,,		- (,		
chemical and physical principles and their applied relationship to nurse anesthesia delivery systems  2. Correlate arterial blood gas results with blooding and severity and successful and successful and severity and successful and pathophysiological changes arross the lifespan  Course Description  Course Description  Course Objectives  Course Obje	Course Description	Course Objectives	Evaluation	Essential(s)		COA Standard(s) 2019
Course Description	chemical and physical	chemistry to physiological systems and	PR, E	VIII	2	D-3, E-2.2
4. Describe methods used to support electrical 4. Describe methods used to support electrical 5. Surfavore Description  Course		2. Correlate arterial blood gas results with	E	VIII	2	D-19, E-2.2
Course Description   Course Objectives   Evaluation   ACN   Essential(s)   2006   Course Objectives   Evaluation   ACN   Essential(s)   2006   Course Objectives   Evaluation   Course Objectives   Course O	·	3. Discuss occupational health risks associated with	C, E	VIII	6	D-1
Course Description   Course Objectives   Evaluation   Essential(s)   2006   Course Objectives   Evaluation   Essential(s)   2006   Course Objectives   Evaluation   Essential(s)   2006   Course Objectives   Evaluation   Course Objectives   Course Object			C, E	VIII	6	D-4
Physiological basis of cellular and tissue function. The consequences of dysregulation on essential homeostatic processes in cells, compartments and primary organ systems		NUR 968 Advanced Physiology and Path	ophysiology I (4 c	redits)		
Physiological basis of cellular and tissue function. The consequences of dysregulation on essential homeostatic processes in cells, compartments and primary organ systems  2. Apply knowledge of functional mechanisms and their regulation to explain the underlying pathophysiology of common diseases  3. Develop patient-specific perioperative anesthetic management plans based on an understanding of physiological and pathophysiological concepts  4. Describe physiological responses to illness and current treatment modalities  NUR 969 Advanced Physiology and Pathophysiology II (4 credits)  Course Description  Course Objectives  Evaluation  AACN Essential(s) 2006  D-7, E  VIII  2 D-9  D-9  D-9  NUR 969 Advanced Physiology and Pathophysiology II (4 credits)  Course Objectives  Evaluation AACN Essential(s) 2006  Sta  Course Objectives  Evaluation AACN Essential(s) 2006  D-7, E  VIII 2 D-5  D-14  Course Objectives  Evaluation AACN Essential(s) 2006  D-7, E  VIII 2 D-5  D-14  Course Objectives  Evaluation AACN Essential(s) 2006  D-7, E  VIII 2 D-5  D-14  Course Objectives  Evaluation AACN Essential(s) 2006  D-7, E  VIII 2 D-17  D-10, III, VIII 2 D-5  Course Objectives  Evaluation AACN Essential(s) 2006  AACN Essential(s) 2006  Course Objectives  Evaluation AACN Essential(s) 2006  Course Objectives  Evaluation AACN Essential(s) 2006  C		2 24 4				
and stave function. The consequences of dysregulation on essential homeostatic processes in cells, compartments and primary organ systems  2. Apply knowledge of functional mechanisms and their regulation to explain the underlying pathophysiology of common diseases  3. Develop patient-specific perioperative anesthetic management plans based on an understanding of physiological and pathophysiological concepts  4. Describe physiological responses to illness and current treatment modalities  NUR 969 Advanced Physiology and Pathophysiology II (4 credits)  **Course Description**  Course Objectives**  **Develop yaing a systems approach. Emphasis is placed on those physiologic and pathophysiologic and	Course Description	Course Objectives	Evaluation	Essential(s)		COA Standard(s) 2019
their regulation to explain the underlying pathophysiology of common diseases  3. Develop patient-specific perioperative anesthetic management plans based on an understanding of physiological and pathophysiological concepts  4. Describe physiological responses to illness and current treatment modalities    NUR 969 Advanced Physiology and Pathophysiology III (4 credits)    Course Description   Course Objectives   Evaluation   AACN   Essential(s)   2006	and tissue function. The consequences of dysregulation	and pathophysiological changes across the	E	VIII	6	D-7, E-2.2
anesthetic management plans based on an understanding of physiological and pathophysiological concepts  4. Describe physiological responses to illness and current treatment modalities    NUR 969 Advanced Physiology and Pathophysiology II (4 credits)    Course Description   Course Objectives   Evaluation   Essential(s)   2006   Outcomes   State   Physiology and pathophysiology and pathophysiologic and pathophysiologic and pathophysiologic and pathophysiologic alterations that affect homeostasis in humans across the life span   Apply concepts of wellness and disease to develop patient-specific anesthetic management plans	compartments and primary	their regulation to explain the underlying	C, E	I	2	D-9
Course Description   Course Objectives   Evaluation   Essential(s)   2006   Course Objectives   Evaluation   Essential(s)   2006   Outcomes   State   Course Objectives   Evaluation   Course Objectives   Evaluation   Course Objectives   Evaluation   Course Objectives   Evaluation   Course Objectives   Course Objectives   Course Objectives   Evaluation   Course Objectives   Course Ob		anesthetic management plans based on an understanding of physiological and	C, W	VIII	2	D-5
Course Description   Course Objectives   Evaluation   AACN   Essential(s)   2006   Outcomes   Star			C, E	VII	2	D-14
In-depth study of human physiology and pathophysiology using a systems approach. Emphasis is placed on those physiologic and pathophysiologic alterations that affect homeostasis in humans across the life span  Course Description  Course Description  Course Objectives  Course Obj		NUR 969 Advanced Physiology and Path	ophysiology II (4	credits)		
In-depth study of human physiology and pathophysiology and pathophysiology, atland pathophysiology, atland pathophysiology, atland pathophysiologic and pa	Course Description	Course Objectives	Evaluation	Essential(s)		COA Standard(s) 2019
placed on those physiologic and pathophysiologic alterations that affect homeostasis in humans across the life span  4. Evaluate current treatment guidelines and anesthetic practices related to common disease states  NUR 970 Pharmacology for the Nurse Anesthetist I (3 credits)  Course Description  Course Objectives  Evaluation  Basic science of pharmacology used in anesthesia practice  I. Utilize drugs based on a knowledge of drug pharmacokinetics and pharmacokinetic	physiology and	physiology, etiology, pathogenesis and clinical	E	VIII	6	D-7, E-2.2
alterations that affect homeostasis in humans across the life span  4. Evaluate current treatment guidelines and anesthetic practices related to common disease states  NUR 970 Pharmacology for the Nurse Anesthetist I (3 credits)  Course Description  Course Objectives  Evaluation  AACN Essential(s) 2006  Basic science of pharmacology used in anesthesia practice  1. Utilize drugs based on a knowledge of drug pharmacokinetics and pharmacodynamics as it relates to relevant patient characteristics  2. Minimize drug reactions/interactions with special attention to vulnerable populations  3. Apply monitoring parameters in assessing the impact and efficacy of drug treatment  4. Design a patient-specific pharmaceutical  Course Objectives  Evaluation  AACN Esential(s) 2006  End of Program Outcomes 2106  C, W VIII  6  D-5, E VIII  6, 7  D-10, D-			С	VIII	2	E-2.2
anesthetic practices related to common disease states  NUR 970 Pharmacology for the Nurse Anesthetist I (3 credits)  Course Description  Course Objectives  Evaluation  Essential(s) 2006  1. Utilize drugs based on a knowledge of drug pharmacokinetics and pharmacodynamics as it relates to relevant patient characteristics  2. Minimize drug reactions/interactions with special attention to vulnerable populations  3. Apply monitoring parameters in assessing the impact and efficacy of drug treatment  4. Design a patient-specific pharmaceutical  Course Objectives  Evaluation AACN Essential(s) 2006  For Unit in the program outcomes of the program outcomes of the program of the program outcomes of the program outcomes of the pharmacodynamics as it relates to relevant patient characteristics  C, W VIII 6 D-13,  D-10,  D-	alterations that affect	develop patient-specific anesthetic management	C, W	I	2	D-5, D-9
Course Description  Course Objectives  Evaluation  AACN Essential(s) 2006  Basic science of pharmacology used in anesthesia practice  1. Utilize drugs based on a knowledge of drug pharmacodynamics as it relates to relevant patient characteristics 2. Minimize drug reactions/interactions with special attention to vulnerable populations 3. Apply monitoring parameters in assessing the impact and efficacy of drug treatment 4. Design a patient-specific pharmaceutical  Course Objectives  Evaluation Essential(s) 2006  Fe I, VIII 6 D-5, E C, W VIII 6 D-13, C, W VIII 6, T D-10, C, W VIII 2 D-17,	the life span	anesthetic practices related to common disease	D, P	III, VIII	2	D-13, D-14
Basic science of pharmacology used in anesthesia practice    Design   Desig		NUR 970 Pharmacology for the Nurse	Anesthetist I (3 cr	edits)		
used in anesthesia practice  pharmacokinetics and pharmacodynamics as it relates to relevant patient characteristics  2. Minimize drug reactions/interactions with special attention to vulnerable populations  3. Apply monitoring parameters in assessing the impact and efficacy of drug treatment  4. Design a patient-specific pharmaceutical  pharmacokinetics and pharmacodynamics as it relates to relevant patients with special attention to vulnerable populations  C, W VIII 6,7 D-10,	Course Description	Course Objectives	Evaluation	Essential(s)		COA Standard(s) 2019
special attention to vulnerable populations  3. Apply monitoring parameters in assessing the impact and efficacy of drug treatment  4. Design a patient-specific pharmaceutical C, W VIII 2 D-17,		pharmacokinetics and pharmacodynamics as it relates to relevant patient characteristics		I, VIII		D-5, E-2.2
impact and efficacy of drug treatment  4. Design a patient-specific pharmaceutical C, W VIII 2 D-17,			C, W	VIII	6	D-13, D-9
			E	VIII	6,7	D-10, D-19
			C, W	VIII	2	D-17, E-2.2

	NUR 971 Pharmacology for	Nurse Anesthesia II			
Course Description	Course Objectives	Measurement	AACN Essential(s) 2006	End of Program Outcomes	COA Standard(s) 2019
Advanced principles of anesthesia and pharmacology	Select drugs based on efficacy, safety, cost and expected outcomes	C, D, E	VIII	6	D-38, E-2.2
and the synthesis of these concepts into a safe, cost- effective, patient-specific	Consider patient preference, values, culture and social determinants of health when developing a pharmaceutical anesthetic plan	С	VIII	7	D-6, D-33, D-35
delivery plan	Manages complex peri-procedural pain by employing evidence based multimodal regimens	Е	VIII	6	D-5, D-11, D-14
	Develop strategies to manage anticipated and unanticipated drug-related side effects	W, E, S	VIII	6	D-13, D-21
	NUR 967 Basic Principles of A	nesthesia (4 credits)			
Course Description	Course Objectives	Measurement	AACN Essential(s) 2006	End of Program Outcomes	COA Standard(s) 2019
Fundamental anesthesia principles that underpin the	Identify components of anesthesia delivery systems	E, S	VIII	6	D-3
development and implementation of a safe anesthetic plan	Develop an airway management plan based on a focused airway assessment, preoperative history and use of grading scales for patients across the lifespan	D, P, E	VIII	6	D-15
	Chose a corrective action plan for common ventilation abnormalities	Е, Р	VIII	6	D-22
	ventuation abnormanties				
	Describe best practices related to positioning, fluid and temperature management in the operative setting	C, E, P	VIII	7	D-17, D-20, E- 2.2

	NUR 974 Introduction to Clinica	al Practicum (1 credit	)		
Course Description	Course Objectives	Measurement	AACN Essential(s) 2006	End of Program Outcomes	COA Standard(s) 2019
Application of basic anesthesia cognitive, affective and psychomotor skills in a	Discuss policies and procedures in the operating room that affect perioperative anesthesia care, management and safety	D, S, O	VIII	5	D-4
simulated environment	Organize anesthesia work area while maintaining safety and quality standards	S, O	VIII	7	D-3, D-13, D-14, D-18
	Apply components of a systems anesthetic assessment to develop a plan of care for a simulated patient	s, o	VIII	6	D-13, D-17
	Listen actively and encourage ideas and feedback from other team members	S	VIII	3	D-26, D-34
	NUR 972 Advanced Principles of	Anesthesia I (3 credit	ts)		
Course Description	Course Objectives	Measurement	AACN Essential(s) 2006	End of Program Outcomes	COA Standard(s) 2019
Anesthetic delivery to patients with increasing co-morbidities and complex anesthesia needs. Advanced airway management,	Course Objectives     Demonstrate knowledge of the anesthetic implications associated with various surgical procedures in patients with multiple comorbidities	Measurement E	Essential(s)		Standard(s)
Anesthetic delivery to patients with increasing co-morbidities and complex anesthesia needs.	Demonstrate knowledge of the anesthetic implications associated with various surgical procedures in patients with multiple co-		Essential(s) 2006	Outcomes	Standard(s) 2019
Anesthetic delivery to patients with increasing co-morbidities and complex anesthesia needs. Advanced airway management, regional anesthesia and chronic	Demonstrate knowledge of the anesthetic implications associated with various surgical procedures in patients with multiple comorbidities     Design anesthetic management plans to address	E	Essential(s) 2006 VIII	Outcomes 6	Standard(s) 2019 D-9, D-10

	NUR 975 Clinical Anesthesia Practicum I (3 credits)								
Course Description	Course Objectives	Measurement	AACN Essential(s) 2006	End of Program Outcomes	COA Standard(s) 2019				
Integration of theory with practice in a clinical and simulated setting with emphasis on basic principles of	Apply the professional standards of practice for the certified registered nurse anesthetist with emphasis on patient safety, documentation and legal aspects of care	CL, SR	VIII	7	D-1, D-2, D-4, D-15, D-16, D- 28, D-29,				
anesthesia and professional standards of practice for the certified registered nurse	Respect the dignity and privacy of patients while maintaining confidentiality in the delivery of care	CL, SR	VIII	7	D-27				
anesthetist	Formulate patient-specific anesthesia plans of care based on the anesthetic history, medical record and anesthetic assessment	S, CL	VIII	6,7	D-5, D-8, D-15, D-17				
	Demonstrates proper care and use of anesthesia equipment	CL, O	VIII	6,7	D-3, D-18				

NUR 976 Clinical Anesthesia Practicum II (2 credits)						
Course Description	Course Objectives	Measurement	AACN Essential(s) 2006	End of Program Outcomes	COA Standard(s) 2019	
Supervised instruction in the clinical management of patients receiving all types of	Develop a comprehensive anesthetic plan that includes preoperative, intraoperative and postoperative care	CL	VIII	6	D-5, D-9, D-10	
anesthesia in a variety of clinical settings	2. Deliver care in a vigilant, professional manner	CL	VIII	6,7	D-1, D-2	
	Improve anesthetic delivery by integrating critical and reflective thinking into daily preparation and evaluation	CL, SR	VIII	7	D-31	
	Assume responsibility and accountability for anesthetic plan choices	CL, SR	VIII	7	D-33, D-37	

Course Description	Course Objectives	Measurement	AACN Essential(s) 2006	End of Program Outcomes	COA Standard(s) 2019
Advanced concepts related to nurse anesthesia practice including management of	Integrate advanced monitoring modalities into anesthesia plans of care	D, E	VIII	4	D-19
pediatric, obstetric, neurologic, trauma, vascular and cardiothoracic procedures	Develop anesthetic management plans for patients with multiple co-morbidities or co- existing diseases undergoing complex surgical procedures	C, E	VIII	6	D-7, D-9, D-10
	Utilize communication techniques that lead to an effective exchange of information with patients, families and other health team members	C, S	VI	3	D-D-25, D-26
	Apply knowledge to practice in decision-making and problem solving	S, E	VIII	6	D-13

	,				
Course Description	Course Objectives	Measurement	AACN Essential(s) 2006	End of Program Outcomes	COA Standard(s) 2019
Gross anatomy of the human body using prosections, medical imaging, clinical correlations, case studies, video tapes and computer aided instruction	To develop an understanding of human gross anatomy for the purposes of nurse anesthesia	L, C, D, E	VIII	2	E-2.2

	NUR 977 Clinical Anesthesia Practicum III							
Course Description	Course Objectives	Measurement	AACN Essential(s) 2006	End of Program Outcomes	COA Standard(s) 2019			
Supervised instruction in the clinical management of medically complex patients undergoing surgical and diagnostic procedures	Demonstrate proficiency in airway management	O, S, CL	VIII	6	D-4,			
	Assist in managing emergency events in and outside of the perioperative setting for all patients across the life span	CL	VIII	6	D-4, D-7, D-13, D-21			
	Develop comprehensive anesthesia plans of care for patients with multiple comorbidities undergoing complex surgical procedures	CL	VIII	6,7	D-5, D-8, D-9, D-10			

	NUR 978 Clinical Anesthesia Practicum IV (4 credits)							
Course Description	Course Objectives	Measurement	AACN Essential(s) 2006	End of Program Outcomes	COA Standard(s) 2019			
Supervised instruction in the perioperative clinical site.  Development of advanced skills	Demonstrate an understanding of the physiological differences associated with infants, children and the parturient	CL	VIII	6	D-7			
with an emphasis on specialty areas such as cardiovascular, neurosurgical, trauma,	Use a variety of pain-management techniques to manage perioperative acute pain in specialized surgical patients	CL	VIII	6	D-11			
obstetrics and pediatrics	Demonstrate proficiency in difficult airway management, fluid resuscitation during hemorrhagic events and other complications associated with surgical procedures	CL, 0	VIII	6	D-20, D-22			

NUR 979 Clinical Anesthesia Practicum V (4 credits)							
Course Description	Course Objectives	Measurement	AACN Essential(s) 2006	End of Program Outcomes	COA Standard(s) 2019		
Supervised clinical practicum with a high level of autonomy and critical thinking. Focus is on the entire spectrum of	Demonstrate a comprehensive knowledge of professional aspects related to nurse anesthesia practice including legal, ethical, business and health policy related issues	CL, SR	VIII	6	D 36, D-38, D- 41, D-51		
clinical nurse anesthesia practice for patients	Apply interprofessional and leadership skills to impact patient outcomes at a microsystems level	CL	VI	3	D-32		
undergoing complex surgical procedures	Manage complex, highly acute, emergency surgical procedures with minimal assistance	CL	VIII	6	D-9, D-10		
	Analyze, reconsider and question the values, beliefs and decisions within one's own practice	SR	VIII	7	D-31, D-33		

	NUR 980 Clinical Anesthesia Practicum VI							
Course Description	Course Objectives	Measurement	AACN Essential(s) 2006	End of Program Outcomes	COA Standard(s) 2019			
Supervised clinical practicum with a high level of autonomy	Assume a leadership role in managing complex, highly acute, emergency surgical procedures	CL	VI	3	D-32			
and critical thinking. Focus is on professional aspects of nurse anesthesia and team	Function as an anesthesia resource in a consultative role	CL	VIII	6,7	D-13			
leadership	Teach others by presenting case studies in an anesthesia peer setting	CL, O	VIII	7	D-30			
	Independently lead surgical teams and manage perioperative anesthesia care	CL	VI	3	D-25, D-26 <u>.</u> , D- 32			

NUR 981 Anesthesia Seminar I (3 credits)							
Course Description	Course Objectives	Evaluation	AACN Essential(s) 2006	End of Program Outcomes	COA Standard(s) 2019		
Professional aspects related nurse anesthesia practice. Focus on historical perspectives, professional role, anesthesia business practices and professional wellness	Analyze business practices encountered in nurse anesthesia delivery systems	D, C	VIII	1	D-23, D-51		
	Explain how certification, licensure, credentialing and health policy impacts nurse anesthesia practice	D	VIII	7	D-41		
	Demonstrate a working knowledge of personal and professional wellness	D, C,	VIII	6,7	D-39		

	NUR 982 Anesthesia Seminar II (3 credits)							
Course Description	Course Objectives	Evaluation	AACN Essential(s) 2006	End of Program Outcomes	COA Standard(s) 2019			
A comprehensive review and synthesis of anatomy, chemistry, physics, pharmacology, physiology and	Apply physical and behavior sciences to the planning, delivery and monitoring of anesthesia and related services	D, E	VIII	2	D-24			
pathophysiology and principles of anesthesia in preparation for the national certification exam.	Discuss current trends and topics related to nurse anesthesia practice	D	VIII	5,6,7	D-24			
	<ol> <li>Incorporate current guidelines, recommendations and requirements from pertinent external organizations, institutions and professional groups in the provision of anesthesia and related services</li> </ol>	D, E	I, VIII	2,6	D-24			

	EPI 840 Clinical Epidemiology for Healthcare Practice								
Course Description	Course Objectives	Evaluation	AACN Essential(s) 2006	End of Program Outcomes	COA Standard(s) 2019				
Introduction to clinical epidemiology and evidence-	Explain concepts and terminology in clinical epidemiology in population health.	D, W, E	I, VI	1	E-2.2				
based medicine for clinical practioners and other	Analyze and interpret data using basic epidemiology measures.	D, W, E	IV	4	D-45				
healthcare professionals	Summarize key research designs and methods used in clinical epidemiology.	D, W, E	III, IV	4	E-2.2				
	Interpret and critique epidemiology research and published literature, including identifying sources of error.	D, W, E	III, IV	4	E.2.2				
	5. Design methods of data use or collection for the purposes of a healthcare-related inquiry.	D, W, E	III, IV	4	E-2.2				
	Evaluate health promotion and disease prevention strategies.	D, W, E	VI	4	D-47				
	7. Design an evaluation of a clinical intervention program.	D, W, E	III, IV	3	D-46				
	8. Apply epidemiologic methods in the context of topics applicable to healthcare practice.	D, W, E	III, IV	5	D-45				
	Describe demographic, geographic, behavioral, social, and environmental features of disease burden and risk.	D, W, E	v	4	D-45				

NUR 902 Scientific Foundations for the APRN (3 credits)							
Course Description	Course Objectives	Evaluation	AACN Essential(s) 2006	End of Program Outcomes	COA Standard(s) 2019		
Analysis and translation of knowledge gained from the	Explore theories, concepts and foundations that support advanced nursing practice	D, P, W	I	1	D-44		
natural and social sciences to inform practice and provide a foundation for the Advanced	Examine values, beliefs and assumptions that guide advanced practice nursing working with diverse populations	D, P, W	I	1	D-33		
Practice Nurse role	3. Use tools to effectively appraise the evidence	D, P, W	III	4	D-44		
	Translate knowledge from the natural and social sciences j into practice	D, P, W	1, 111	4	D-44		

	NUR 903 Healthcare Informati	ics (3 credits)			
Course Description	Course Objectives	Evaluation	AACN Essential(s) 2006	End of Program Outcomes	COA Standard(s) 2019
Health information systems and technologies in relationship to the delivery of efficient, high quality healthcare	Examine the use of technology to care delivery in healthcare organizations	C, Q, W, PR	IV	1	D-50
	Develop an understanding of IT architecture for healthcare information management, including sourcing, security and governance decisions	PR, Q	IV, V	1	D-49
	Recognize that data obtained from health information systems can be used to influence practice	W, C, D	III, IV	1	D-49
	Explore the influences of social, organizational, individual and ethical factors related to the use of IT by end users	D, W, PR, Q	IV	1	D-49

	NUR 904 Health Policy and Advo	cacy (3 credits)			
Course Description	Course Objectives	Evaluation	AACN Essential(s) 2006	End of Program Outcomes	COA Standard(s) 2019
Interaction between economics, ethical principles, social policies, legislative and regulatory processes that influence access, delivery and organization of healthcare	Discuss the influence of institutional, regional, national and global health policy trends on healthcare delivery	С	V	1,5	D-42
	Analyze the impact of healthcare policy and regulation on the ability of the provider to address the care of diverse populations	С	v	5	D-42
	3. Recognize the ethical implications associated with policy decisions	C, G	II	5	D-6, D-33, D-41
	4. Engage in advocacy efforts related to health and APRN issues	С	V	4, 5	D-30, D-40, D- 43,

	NUR 906 Leadership in Complex Healt	h Systems (3 cre	dits)		
Course Description	Course Objectives	Evaluation	AACN Essential(s) 2006	End of Program Outcomes	COA Standard(s) 2019
Knowledge, skills and attributes required to assume leadership as an APRN in complex health systems	Explore leadership theories and issues impacting practice including organizational culture, distribution of resources and ethics	C, D	II	6	D-32
	Construct strategies to facilitate interprofessional collaboration in a complex healthcare organization	D, W, C	VI	5	D-32
	Analyze personal leadership style and identify areas for personal and professional growth	D, W	VI	6	D-37
	Apply skills in negotiation and consensus building to form partnerships	D	VI	6	D-32

NU	R 905 Patient Safety, Quality Improvement and Qualit	ty Management i	n Healthcare (3	credits)	
Course Description	Course Objectives	Evaluation	AACN Essential(s) 2006	End of Program Outcomes	COA Standard(s) 2019
Application and evaluation of quality improvement initiatives through the use of theories, models and outcome measurements	Explore theories and external influences that affect safety and quality improvement within a healthcare organization	P, D	II	1	D-44
	Analyze how an organization's culture influences and impacts safety	Р	II	1,5	D-44
	Examine how organizations use the process of quality and safety to improve healthcare outcomes	Р	II	1	D-47
	Use quality improvement tools to identify gaps between current and best practices	P	11, 111	1	D-46, D-47
	5. Apply quality improvement processes to result-oriented quality improvement initiatives	P	II	1	D-44

	NUR 908 Advanced Physical Assessment	for the APRN (3 c	credits)		
Course Description	Course Objectives	Evaluation	AACN Essential(s) 2006	End of Program Outcomes	COA Standard(s) 2019
Comprehensive assessment including history, physical and psychological assessments of	Demonstrate knowledge of inter-relatedness of anatomical, physiological and pathological basis of health on body systems when conducting a comprehensive health assessment	C, S, E	I	3,7	D-8
signs and symptoms, pathophysiologic changes and psychosocial variations.	Demonstrate minimum competency benchmark expectations in physical exam techniques for all body systems reflective of cultural and age-related variations	C, S, E	VIII	2	D-8
Specific assessments related to Nurse Anesthetist, Clinical Nurse Specialist and Nurse Practioner practice will be a	Use effective verbal and non-verbal communication skills in the comprehensive health assessment process for a diverse population	C, S, E	VIII	5	D-25
focus in the practical experience of students	Synthesize subjective and objective health assessment findings to formulate plausible differential diagnosis.	C, S, E	VIII	3,7	C-21
	Conduct a comprehensive health history and physical assessment reflective of cultural and age-related variations.	C, S, E	VIII	2	D-6
	Interpret data collected during the advanced assessment process to asses patient risks and determine overall patient health status and diagnosis	C, S, E	VIII	2	D-19

	NUR 909 Advanced Pharmacology	for the APRN (3	credits)		
Course Description	Course Objectives	Evaluation	AACN Essential(s) 2006	End of Program Outcomes	COA Standard(s) 2019
Analysis and translation of knowledge gained from the natural and social sciences to	Differentiate the pharmacological actions of medication used to treat common disease entities and the physiological and pathogenetic responses	Q, E	I	2,7	D-9
inform practice and provide a foundation for the Advanced Practice Nurse role	Develop strategies for conducting patient / family education on medication management that reflects assessment of literacy, available resources and potential barriers to adherence	Q, E	VIII	3,5	D-5
	Demonstrate an understanding of safe dispensing of pharmacotherapeutic agents including controlled ad non-controlled substances, supplements and herbal medications consistent with ethical and legal parameters	Q, E, W	VIII	7	D-33
	Incorporate knowledge of pharmacokinetics, pharmacologic agents, physiologic and pathogenetic responses when determining medication management across the lifespan for diverse populations	Q, E, W	I, VIII	5	D-14
	Demonstrate consideration of accessibility, efficacy, genetic characteristics, cultural, socioeconomic factors, adherence, and quality of life issues when planning medication management regimens.	Q, E	VIII	5	D-4
	Integrate strategies for effective monitoring of therapeutic responses to drugs and potential adverse outcomes.	Q, E, W	I, VIII	2	
	NUR 995 Doctor of Nursing	Practice Projec	tl		
Course Description	Course Objectives	Evaluation	AACN Essential(s) 2006	End of Program Outcomes	COA Standard(s) 2019
Introduction of the scholarly practice project for the advanced practice nurse.	Employ principles of business, finance, economics and health policy to develop and implement effective plans for practice level and/or system wide practice initiatives that will improve the quality of care.	P	II, IV, V	3	D-41,44, 51
	Demonstrate sensitivity to diverse organizational cultures and populations, including patients and providers.	Р	II, VI	5	D-33
	Use advanced communication skills and process to lead quality improvement and patient safety initiatives in healthcare systems	Р	II, VI	2	D-25, 26
	Develop a proposal based on gap analysis of care delivery approaches to meet current and future needs of patient populations based on scientific findings in nursing including organizational, political, and economic sciences.	PD, B	I, II, III, VI, VII, VIII	5	D-25,26,33,41,44,51
	NUR 996 DNP Pr	oject II			
Course Description	Course Objectives	Evaluation	AACN Essential(s) 2006	End of Program Outcomes	COA Standard(s) 2019
Implementation of the scholarly practice project for the advanced practice nurse.	Implement and manage a project in response to a nurse- led scholarly inquiry employing effective communication and collaborative skills in the implementation of practice initiatives.	SP, DB	I, II, III, IV, VIII	2	D-26
	Lead process improvement project and project management based on systems approaches.	SP, DB	II, VI	2	D-49,50
	Demonstrate leadership skill to respond and adapt to changing environments to achieve project aims.	SP	II, III, IV	2	D-31,32

Updated October 2024

NUR 997 DNP Project III

SP, PR, DB

SP

SP, PR, DB

I, III, VI, VIII

I, III, VI, VIII

I, II, III, VI, VII,

VIII

6

6

D-44, D-46

D-47

D-48

1. Evaluate the outcomes of the scholarly inquiry.

2. Synthesize data for evaluation of the project.

3. Evaluate sustainability and report findings to

stakeholders and create a product for dissemination.

Implementation of the scholarly practice project for the advanced practice nurse.

# **Appendix D**

# **Nurse Anesthesia Program Trajectory**

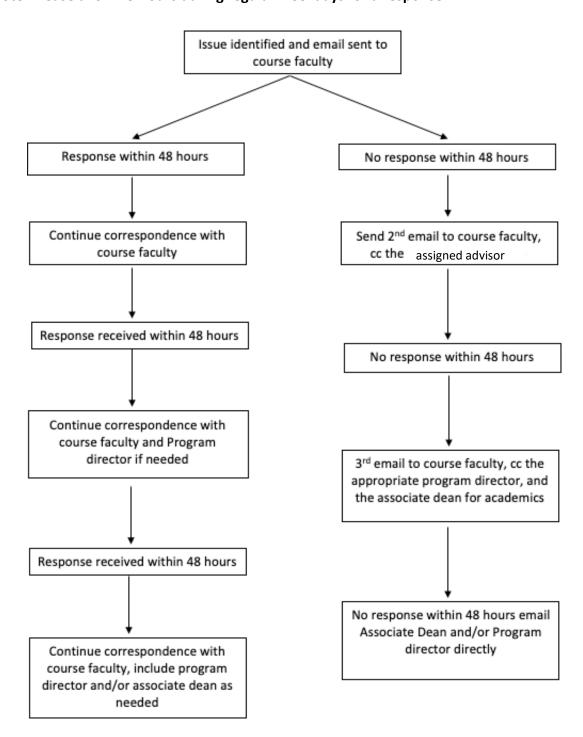
## Nurse Anesthesia Trajectory (DNP)

YEAR 1	YEAR 2	YEAR 3
Summer Year 1  NUR 904: Health Policy and Advocacy (3)  NUR 945: Basic Pharmacology for Nurse Anesthesia (3)  NUR 966: Applied Chemistry and Physics of Anesthesia Practice (3)  NUR 968: Advanced Physiology and Pathophysiology for Anesthesia Practice I (4)	Summer Year 2  NUR 975: Clinical Anesthesia Practicum I (3 days / week) (3)  NUR 972: Advanced Principles of Anesthesia I (3)  NUR 905: Patient Safety, Quality Improvement and Quality Management in Healthcare (3	Summer Year 3  NUR 978: Clinical Anesthesia Practicum IV ( doys / week) (4)  NUR 996: Doctor of Nursing  Practice Project II (3)
Total Semester Credits = 13	Total Semester Credits = 9	Total Semester Credits = 7
Fall Year 1  NUR 902: Scientific Foundations for the APRN (3)  NUR 903: Healthcare Informatics (3)  NUR 970: Pharmacology for Nurse Anesthesia I (3)  NUR 969: Advanced Physiology and  Pathophysiology for Anesthesia  Practice II (4)	Fall Year 2  NUR 976: Clinical Practicum II (2 days / week) (2)  NUR 973: Advanced Principles of Anesthesia II (3)  NUR 946: Principles of Regional Anesthesia and Point of Care Ultrasound (4)	Fall Year 3 NUR 979: Clinical Anesthesia Practicum V ( days / week) (4) NUR 997: Doctor of Nursing Practice Project III (3) NUR 981: Anesthesia Seminar I (3)
Total Semester Credits = 13	Total Semester Credits = 9	Total Semester Credits = 10
Spring Year 1  NUR 840: Clinical Epidemiology for Healthcare Practice (3)  NUR 908: Advanced Physical Assessment for The APRN (3)  NUR 967: Basic Principles of Anesthesia (4) NUR  971: Pharmacology for Nurse Anesthesia  II (3)  NUR 974: Introduction to Clinical Practicum (simulation 1 day / week) (1)	Spring Year 2  NUR 977: Clinical Anesthesia Practicum III (3 days per week) (3)  NUR 906: Leadership in Complex  Health Systems (3) NUR 995:  Doctor of Nursing  Practice Project I (4)	Spring Year 3  NUR 980: Clinical Anesthesia Practicum VI ( days / week) (4)  NUR 982: Anesthesia Seminar II (3)
Total Semester Credits = 14	Total Semester Credits = 10	Total Semester Credits = 7

## **Appendix E**

# **Communication Algorithm and Template**

Note: Please allow 48-hours during regular weekdays for a response.



It is expected that students communicate professionally with peers, faculty and program administrators. Below is a template that may be used or modified to guide your correspondence:

Dr	
My name isan	d I am a student in NUR
	and am (asking or guidance, seeking clarification, I have (specify what <i>you</i> have done to resolve the challenge
I would greatly appreciate	e (any feedback, guidance, setting up a time to meet).
Sincerely, Respectfully	
Your name	
Note: Faculty often overse	ee many students and have academic obligations in addition to

Note: If faculty have provided you with a personal phone number, please text or call within business hours unless the communicated concern is an emergency. It is good practice to follow up a conversation with an e-mail.

teaching. Arranged times to meet should be at the convenience of the faculty when possible.

## **Appendix F**

# **NAP End of Program Outcomes**

At the end of the program, graduates will be able to:

- 1. Evaluate phenomenon related to the practice of anesthesia by to facilitate strategies that impact and advance anesthesia-related health outcomes.
- 2. Demonstrate leadership and care competencies that combine cognitive, affective, and psychomotor skills to facilitate anesthesia practic.
- 3. Apply the major critical thinking and analytic skills to effectively practice nurse anesthesia in a cost-effective and accountable manner.
- 4. Evaluate and utilize anesthesia-related research that enhance and advance the specialty and disseminate outcomes to improve patient care.
- 5. Integrate interdisciplinary, evidence-based problem-solving and education strategies in the delivery of care to diverse populations with a variety of health conditions.
- 6. Analyze leadership skills utilized in the evaluation of the quality of anesthesia care
- 7. Integrate practice and education to expand the profession and practice of nurse anesthesia.

## **Appendix G**

# Council on Accreditation of Nurse Anesthesia Programs Doctoral Graduate Standards

#### **Council on Accreditation of Nurse Anesthesia Programs Graduate Standards:**

#### Patient safety is demonstrated by the ability of the graduate to:

- Be vigilant in the delivery of patient care
- Refrain from engaging in extraneous activities that abandon or minimize vigilance while providing direct patient care
- Conduct a comprehensive and appropriate equipment check
- Protect patients from iatrogenic complications

#### Perianesthetic management is demonstrated by the ability of the graduate to:

- Provide individualize care throughout the perianesthetic continuum
- Deliver culturally competent perianesthesia care
- Provide anesthesia services to all patients across the lifespan
- Perform a comprehensive history and physical assessment
- Administer general anesthesia to patients with a variety of physical conditions
- Administer general anesthesia for a variety of surgical and medically related procedures
- Administer and manage a variety of regional anesthetics
- Maintain current certification in ACLS and PALS

#### Critical thinking is demonstrated by the graduate's ability to:

- Apply knowledge to practice in decision-making and problem solving
- Provide nurse anesthesia care based on evidence-based principles
- Perform a preanesthetic assessment before providing anesthesia services
- Assume responsibility and accountability for diagnosis
- Formulate an anesthesia plan of care before providing anesthesia services
- Identify and take appropriate action when confronted with anesthetic equipmentrelated malfunctions
- Interpret and utilize data obtained from noninvasive and invasive monitoring modalities
- Calculate, initiate, and manage fluid and blood component therapy
- Recognize, evaluate, and manage the physiological responses coincident to the provision of anesthesia services
- Recognize and appropriately manage complications that occur during the provision of anesthesia services
- Use science-based theories and concepts to analyze new practice approaches
- Pass the Council on Certification of Nurse Anesthetists' (NCE) certification examination

#### Communication skills are demonstrated by the graduate's ability to:

- Utilize interpersonal and communication skills that result in the effective exchange of information and collaboration with patients and their families
- Utilize interpersonal and communication skills that result in the effective

interprofessional exchange of information and collaboration with other healthcare professionals.

- Respect the dignity and privacy of patients while maintaining confidentiality in the delivery of interprofessional care.
- Maintain comprehensive, timely, accurate, and legible healthcare records.
- Transfer the responsibility for care of the patient to other qualified providers in a manner that assures continuity of care and patient safety
- Teach others

#### Leadership is demonstrated by the graduate's ability to:

- Integrate critical and reflective thinking in his or her leadership approach
- Provide leadership that facilitates intraprofessional and interprofessional collaboration

#### Professional role is demonstrated by the graduate's ability to:

- Adhere to the Code of Ethics for the Certified Registered Nurse Anesthetist.
- Interact on a professional level with integrity
- Apply ethically sound decision-making processes
- Function within appropriate legal requirements
- Interact on a professional level with integrity
- Accept responsibility and accountability for his or her practice
- Provide anesthesia services to patients in a cost-effective manner
- Demonstrate knowledge of wellness and substance use disorder in the anesthesia profession through completion of content in wellness and substance use disorder
- Inform the public of the role and practice of the CRNA
- Evaluate how public policy-making strategies impact the financing and delivery of healthcare
- Advocate for health policy change to improve patient care
- Advocate for health policy change to advance the specialty of nurse anesthesia
- Analyze strategies to improve patient outcomes and quality of care
- Analyze health outcomes in a variety of populations
- Analyze health outcomes in a variety of clinical settings
- Analyze health outcomes in a variety of systems
- Disseminate scholarly work
- Use information systems/technology to support and improve patient care
- Use information systems/technology to support and improve healthcare systems
- Analyze business practices encountered in nurse anesthesia delivery settings

### **Appendix H**

#### MSU College of Nursing Responsible and Ethical Conduct of Research (RECR) Plan

		Year 1			Year 2	-	Year 3+
Content Area	On-Line Orientation prior to matriculation	Orientation 2 hours	Courses	Prior to start of Year 2	Courses	Grad School Workshop (Students choose 2)	Refresher from year 1
Introduction to the Responsible Conduct in Research	CITI Module						CITI Module
Authorship	CITI Module	Orientation (1 hour)					CITI Module
Plagiarism	CITI Module	Orientation (1 hour)					CITI Module
Research Misconduct	CITI Module						CITI Module
Collaborative Research							
Conflicts of Interest				CITI Module			
Data Management			NUR 903	CITI Module			
Financial Responsibility							
Mentoring				CITI Module			
Human Research Protection/IRB Certification					NUR 905		
Intellectual Property							

Doctoral and Master's Students required to complete according to University Responsible Conduct of Research <a href="https://grad.msu.edu/researchintegrity">https://grad.msu.edu/researchintegrity</a>

- CITI Training Modules available at: <a href="https://bit.ly/RCR-CITI">https://bit.ly/RCR-CITI</a>
- Students will be provided instructions to choose Grad School workshops
- Post-Master's DNP students should complete additional workshops if not taking 903/905
- Students will discuss RECR trainings with their faculty advisor during the Annual Progress Report meeting

# Appendix I

# College of Nursing Request to Change Faculty Advisor

Student Name:	<b>Student PID:</b>	Student MS	SU Email:
	_		
Section 1: To be completed by	student		
Current Program			Current Degree
☐ Adult Gerontology Pr	ctitioner	☐ MSN	
☐ Clinical Nurse Specia		□ DNP	
☐ Family Nurse Practiti	oner		☐ Certificate
☐ Psychiatric Mental H	ealth Nurse Practition	er	
☐ Nurse Anesthesia			
Section 2: To be completed by			
Current Advisor:			
Proposed Advisor:			
Please provide reasoning for the	ha waquagtad ahanga	(500 wands on b	200
riease provide reasoning for the	ne requested change	(500 words or 10	ess)
Section 3: To be completed by	specialty director		
☐ Approve	☐ Deny		
Student Signature:		Date:	
Current Faculty Advisor Signatur	e:	Date:	
Proposed Faculty Advisor Signature	ure:	Date:	
Troposed ruedity ruevisor Digital	w1 V.	Date	
Specialty Director Signature:		Date:	

# **Appendix J**

# Michigan State University Nurse Anesthesiology Program Student Additional Out-of-Pocket Expenses

The following is a list of possible NAP Out-of-Pocket Expenses. This list does not include tuition and textbook cost.

	rerences (national): Students attend one AANA conference in the ry include one of the following:
☐ American Program (	Association of Nurse Anesthetist Conference Costs – Required by (2023)
0	\$600 for airline ticket
0	\$1600 for 5 nights hotel costs
0	\$575 conference fee (student)
0	\$500 miscellaneous travel expenses (airport parking, cab, food)
☐ American by Progra	Association of Nurse Anesthetists Mid-Year Assembly – Required m (2023)
0	\$400 for airline ticket to Washington DC
0	\$1400 for 4 nights in Washington DC (conference rate)
0	\$225 conference fee (student)
0	\$400 miscellaneous travel expenses (airport parking, cab, food)
the program:	Ferences (state): Students attend two MANA conferences while in  Association of Nurse Anesthetists Conference – Required by
	(Fall and/or Spring)
0	\$100 conference fee (student)
0	\$400 two-night hotel stay
0	\$100 miscellaneous expenses (vehicle parking, food)
<ul> <li>American Associa application</li> </ul>	ation of Nurse Anesthetists Membership and AANA number
• •	\$250
	m (SEE) x 2 (Required by Program) \$ 265 (\$265 x 2)
Nursing License Renewal (Rerequired to do this twice dep	equired to maintain status as a nursing student; students may be pending on cycle):
0	\$ 131 (every 2 years)

**Advanced Cardiac Life Support Renewal** (Required to attend clinical – students may be required to do this twice depending on cycle)

o **\$250** 

**Pediatric Advanced Life Support Renewal** (Required to attend clinical- students may be required to do this twice depending on cycle)

o **\$250** 

#### **Health Insurance (student only)**

\$7,200 (36 months in program x \$250/ month)

#### **Annual Drug Screen**

\$100 per year (\$300)

#### **Anesthesia Board (NCE) Review Course**

\$500 (depending on review course selected)

#### **National Certification Exam**

o \$1045

#### **Clinical Supplies (Required for clinical)**

- \$250 (stethoscope, eye protection, footwear)
- Clinical rotations in remote sites (> 100 miles from East Lansing);
   all students do 1-2 one month long remote site rotations
  - o \$1500 / month; apartment or hotel costs
  - \$300 (569 miles total for 5 clinical sites x 53.5 cents per mile)

# **Total Expenses (Approximate) \$10,000 (over three years)**

<sup>\*</sup>Most textbooks are available on-line for free

<sup>\*</sup>Tuition and living expenses not included in total costs