

OSS 648
Anesthesiology Advanced

CLERKSHIP ELECTIVE ROTATION SYLLABUS

OSTEOPATHIC SURGICAL SPECIALTIES
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At Michigan State University College of Osteopathic Medicine (MSUCOM), we are constantly working to improve our curriculum and to meet new AOA accreditation guidelines. We need to meet the challenges of modern medicine that force us to innovate. While changes will generally be instituted at the beginning of the school year, changes may also be implemented semester to semester.

Please be mindful of the need to read your syllabi before beginning your rotation.

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INTRODUCTION AND OVERVIEW

This course is designed to provide the student with an opportunity to actively engage in patient-based learning experiences under the guidance of a faculty member in collaboration, as appropriate, with residents and/or fellows. The purpose of this Advanced Anesthesia clerkship is to provide the student with an overview of the clinical specialty.

Rotations are typically two weeks, three credit hours or four weeks, six credit hours in duration. Timeframes for each rotation are decided at least 30-days prior to the beginning of the rotation.

The overall performance of course participants will be evaluated through customary assessment instruments normally employed by the department for core rotations, at the discretion of the instructor of record.

Please note that we have included links to the reading materials. Should the links not work for you, please cut, and paste the link into a browser window and the material should load for you.

This syllabus provides an overview of rotation goals and objectives designed to help you gain an understanding of the breadth and scope of this subject. As you progress through the rotation, you will perform certain activities intended to help you meet the identified goals and objectives. Please make sure to review this syllabus in its entirety to ensure understanding of the rotation format, syllabus content, and MSUCOM expectations.

ELECTIVE COURSE SCHEDULING

Preapproval

- This course does not require preapproval from the IOR. The student should follow the directions below for elective course confirmation and enrollment.

Required Prerequisites

- This course does not require any prerequisite courses.

Course Confirmation and Enrollment

- The student must be an active student at MSUCOM.
- Student must complete five core rotations prior to any elective rotation.
- The student must receive MSUCOM confirmation and enrollment prior to beginning any elective rotation.
 - Once the student receives rotation acceptance from the host site, students must provide the elective application and host site approval to COM.Clerkship@msu.edu for MSUCOM confirmation and scheduling.
 - MSUCOM confirmation and enrollment is complete when the rotation is visible on the student's schedule.
 - MSUCOM confirmation must occur at least 30 days in advance of the rotation.
 - Once confirmed, the rotation may only be cancelled 30 days or more in advance of the start date.

ROTATION FORMAT

This course is designed to provide the student with an opportunity to actively engage in patient-based learning experiences under the guidance of a faculty member in collaboration, as appropriate, with residents and/or fellows. This Elective rotation is a two (2) or four (4) week experience. The purpose of this Advanced Anesthesia clerkship is to provide the student with an overview of the clinical specialty.

Advanced Anesthesia clerkship should include exposure to a variety of surgical topics and experiences. Exposure to the topics will be through reading, lectures, seminars, and hands-on experiences.

The service should be organized to provide the maximum degree of practical clinical exposure and learning in the areas of diagnosis, management, and therapy in thoracic surgery, which is consistent with a fourth-year osteopathic medical student's level of knowledge. Opportunities for learning such as lectures, reading, consults and history and physical examination (H&P) review will be available.

Please note that we have included links to the reading materials. Should the links not work for you, please cut, and paste the link into a browser window and the material should load for you.

You can find additional resources at: <http://libguides.lib.msu.edu/medicalebooks>

Virtual Rotation: If a student has been given the approval from Drs. Enright or Pfothenauer to complete all or a portion of their rotation on-line, please contact me for details via email or a telephone call (517) 353-8470. Only with approval should you use the Syllabus Addendum found on the Welcome D2L page as a guide. The details of what you will be responsible for completing will come from the Instructor of Record, via an email from the Course Assistant, Shawn Olds, oldss@msu.edu

GOALS AND OBJECTIVES

GOALS

1. Observe and participate in the evaluation, intra-operative, pre - operative and post - operative management of patients requiring surgery.
2. Demonstrate the ability to appropriately evaluate post-operative care management of patients.
3. Demonstrate the ability to perform and record an osteopathic structural examination on a surgical patient and document such using acceptable osteopathic terminology
4. Interact with patients and their families in a respectful, sensitive, and ethical manner.
5. Interact with members of the team, patient care units and ambulatory clinic personnel in a respectful, responsible, and professional manner.
6. To review the Entrustable Professional Activities and Osteopathic Core Competencies located on D2L under the Additional Information module.

Clinical education in anesthesiology involves achieving competence in two important areas:

- Acquisition of a specific body of information/knowledge.
- Acquisition of the various mechanical (psychomotor) skills associated with anesthesiology.

The acquisition and demonstration of a core set of anesthesia skills is especially relevant to the adequate application of the art and science of anesthesiology. These skills vary in complexity from the insertion of an intravenous line to endotracheal intubation and progress to many increasingly complex diagnosis and therapeutic modalities. Mastery of these skills will often require repetition, in order for students to achieve the requisite skill level and degree of competence required.

OBJECTIVES

A. Airway Management

You will be expected to perform or assist:

- Oral endotracheal Intubation
- MAC blade x2

- Miller Blade x2
- LMA intubation x 2
- Glide scope or Video Assisted Intubation x1.

Specific Learning Objectives

- Know the indications/contraindications as well as the mechanics needed relative to Central Line Placement.

Basic Science Links

- Physiology of the cardiac and venous systems

Labs/Other Activities

- VIDEO: Central Venous Catheterization (NEMJ) <https://www.youtube.com/watch?v=HE5QhsPRaPU>
- VIDEO: Placement of a Formal Venous Catheter (NEJM) <https://www.youtube.com/watch?v=HE5QhsPRaPU>
- VIDEO: Peripheral Venous Cannulation <https://www.youtube.com/watch?v=qRWb9CJU0Yk>
- VIDEO: Central Line Placement (YouTube) <https://www.youtube.com/watch?v=PAr4kC5BQbY>

OPC Skills Review

- Knowledge of the peripheral vascular system and the examination thereof.

B. Arterial Line Placement

Be aware of the indications/contraindication relative to arterial line placement. Participation in the insertion of arterial lines will be at the discretion of the attending anesthesiologist and the Department of Anesthesiology.

Specific Learning Objectives

- Be aware of the indications and contraindications relative to arterial line placement.

Basic Science Links

- Physiology of the peripheral arterial system

Labs/Other Activities

- VIDEO: Placement of Arterial Line (NEJM) <https://www.youtube.com/watch?v=8hK04ai17-k>
- VIDEO: A-Line Insertion (YouTube) <https://www.youtube.com/watch?v=x0zZ14VFLa4>

OPC Skills Review

- Knowledge of the peripheral vascular system and the examination thereof.
- Knowledge of how to perform and the meaning of the Allen test.

C. Ultrasound

Be aware of the use(s) of ultrasound in the placement of arterial lines, nerve blocks and central line placement.

D. Central Line Placement

Be aware of the indications/contraindications as well as the mechanic's relative to central line placement. Participation in the insertion of central lines will be at the discretion of the attending anesthesiologist and the Department of Anesthesiology.

Specific Learning Objectives

- Be aware/knowledgeable relative to the placement of arterial lines, central venous lines, and the use of ultrasound in the placement/technique of various nerve blocks.

Labs/Other Activities

- VIDEO: Ultrasound Guided Peripheral Intravenous Placement (NEJM) <https://www.youtube.com/watch?v=-fduljQ8EH4>
- VIDEO: Ultrasound Guided Internal Jugular Vein Cannulation (NEJM) <https://www.nejm.org/doi/full/10.1056/nejmvcm0810156>
- VIDEO: Central Line Placement (You Tube) https://www.youtube.com/watch?v=HE5QhsPRaPU&list=PL5JaZVPnPe4a8dW3J_rortbLOnzJeb4MG
- VIDEO:A-LineInsertionwithUltrasound(YouTube) <https://www.youtube.com/watch?v=YOxyssqgYNE>

COLLEGE PROGRAM OBJECTIVES

In addition to the above course-specific goals and learning objectives, this clerkship rotation also facilitates student progress in attaining the College Program Objectives. Please refer to the complete list provided on the MSUCOM website (<https://com.msu.edu/>) and in the Student Handbook.

REFERENCES

REQUIRED STUDY RESOURCE

Desire 2 Learn (D2L): Please find online content for this course in D2L (<https://d2l.msu.edu/>). Once logged in with your MSU Net ID, your course will appear on the D2L landing page. If you do not see your course on the landing page, search for the course with the following criteria, and pin it to your homepage: **Anesthesiology Advanced.**

If you encounter any issues accessing this D2L course, please email the CA (on the title page of this syllabus).

SUGGESTED STUDY RESOURCES

You can find additional resources at: <http://libguides.lib.msu.edu/medicalebooks>

ROTATION REQUIREMENTS

REQUIREMENT	SUBMISSION METHOD	DUE DATE Please refer to D2L for actual (month/day) due dates
Student Activity Log	Submit into D2L	Last Day of Rotation
Mid Rotation Feedback Form NOT required for 2 Week Rotations	Submit via D2L in the Activity Log Dropbox	Must be Submitted by 11:59 pm the last day of the clerkship, should be completed by end of week two and dated no later than Wednesday of Week 3.
Topic Paper	Submit into D2L – Activity Log dropbox (word doc)	Last Day of Rotation
Attending Evaluation of Clerkship Student	Students must select their attending physician as directed within the rotation description in Medtrics. At the start of the last week of the rotation, students will need to request an evaluation in Medtrics. By requesting an attending evaluation from their assigned attending physician, the attending physician will receive an automated email link connecting them to their assigned Attending Evaluation within Medtrics. Attendings will be able to electronically access and submit the forms on behalf of their students.	Last Day of Rotation
Student Evaluation of Clerkship Rotation	Students will submit their rotation evaluations electronically at the conclusion of every rotation by accessing the Medtrics system: https://msucom.medtricslab.com/users/login/ . By the last week of each rotation, students will receive an automated email link connecting them to their assigned evaluation. Students can also access pending evaluations on the 'Home' or 'Evaluations' tabs within their Medtrics accounts.	Last Day of Rotation

WEEKLY READINGS/OBJECTIVES/ASSIGNMENTS**A. Airway Management****Labs/Other Activities**

- VIDEO: Central Venous Catheterization (NEMJ) <https://www.youtube.com/watch?v=HE5QhsPRaPU>
- VIDEO: Placement of a Formal Venous Catheter (NEJM) <https://www.youtube.com/watch?v=HE5QhsPRaPU>
- VIDEO: Peripheral Venous Cannulation <https://www.youtube.com/watch?v=qRWb9CJU0Yk>
- VIDEO: Central Line Placement (YouTube) <https://www.youtube.com/watch?v=PAr4kC5BQbY>

B. Arterial Line Placement

Labs/Other Activities

- VIDEO: Placement of Arterial Line (NEJM) <https://www.youtube.com/watch?v=8hK04ai17-k>
- VIDEO: A-Line Insertion (YouTube) <https://www.youtube.com/watch?v=x0zZl4VFLa4>

C. Ultrasound

Be aware of the use(s) of ultrasound in the placement of arterial lines, nerve blocks and central line placement.

D. Central Line Placement

Labs/Other Activities

- VIDEO: Ultrasound Guided Peripheral Intravenous Placement (NEJM) <https://www.youtube.com/watch?v=-fduljQ8EH4>
- VIDEO: Ultrasound Guided Internal Jugular Vein Cannulation (NEJM) <https://www.nejm.org/doi/full/10.1056/nejmvcm0810156>
- VIDEO: Central Line Placement (You Tube) https://www.youtube.com/watch?v=HE5QhsPRaPU&list=PL5JaZVPnPe4a8dW3J_rortbLOnzJeb4MG
- VIDEO:A-LineInsertionwithUltrasound(YouTube) <https://www.youtube.com/watch?v=Y0xyssqgYNE>

STUDENT ACTIVITY LOG

Students are required to submit via D2L Dropbox an Activity Log by 11:59 pm on the last day of the rotation.

In this log you will need to outline all of the Procedures you either assisted or watched, the Primary Diagnosis of each patient seen, all meetings or lectures (including didactics) and all materials you read while on the rotation.

The complete Activity Log can be viewed on the last page of this syllabus or under the Activity Log Module on D2L for this course. The form is the last page of the syllabus.

Students will choose one of two topics provided and submit a one-page paper on findings. This will be submitted into D2L in the Activity Log section. Any questions contact Shawn at oldss@msu.edu

MID ROTATION FEEDBACK FORM

Students are required to complete the MSU COM Mid Rotation Feedback Form. This will need to be completed by an Attending or Resident at the end of week two of the rotation. It should be dated no later than the 3rd Wednesday of the rotation. Students must upload the form to a drop box in D2 by 11:59pm, the last day of the rotation. A grade cannot be entered for the course until all requirements of the course have been met. This is only done for students completing a 4-week rotation.

TOPIC PAPER

There are two topics to choose from on the last page of the syllabus. Complete a one-page paper in a word document and submit on the last day of the rotation into the Activity Log drop box. All students to complete, whether you are on a 2- or 4-week rotation.

ROTATION EVALUATIONS

Attending Evaluation of Student

Attending Evaluation of the Student is completed electronically via Medtrics by the supervisor designated within the Medtrics rotation description. To initiate this evaluation, each student must select their attending physician as directed within the rotation description in Medtrics. Students will receive an email from Medtrics to select the attending 7 days prior to the end of the rotation. Should your rotation lack a rotation description or if you have any questions, please contact com.msu.edu. Upon selecting the attending physician directed within the Medtrics rotation description, the attending physician will receive an automated email link connecting them to their assigned Attending Evaluation within Medtrics.

Attendings will be able to electronically access and submit the Attending Evaluation of the Student. Attendings will access the electronic form within Medtrics by selecting the email link on a smart device. No login (username/password) will be required for attendings to access their pending evaluation(s) assigned to them. After the electronic form has been submitted by their attending, students can review the Attending Evaluation of the Student that were completed by visiting the 'Evaluations' module (in the 'About Me' tab) of their Medtrics profiles.

Students are encouraged to seek formative/verbal feedback on their performance at least weekly. Students are also encouraged to discuss the Attending Evaluation of the Student with the supervisor completing the evaluation.

Any evidence of tampering or modification while in the possession of the student will be considered "unprofessional behavior" and will be referred to the Committee on Student Evaluation (COSE).

Grades are held until all rotation requirements are received. Students are required to ensure their rotation requirements are completed correctly.

Student Evaluation of Clerkship Rotation

Students will submit their rotation evaluations electronically at the conclusion of every rotation by accessing the Medtrics system: <https://msucom.medtricslab.com/users/login/>. By the last week of each rotation, students will receive an automated email link connecting them to their assigned evaluation for the respective rotation. Students can also access their pending evaluations on the 'Home' or 'Evaluations' tabs within their Medtrics accounts.

Unsatisfactory Clinical Performance

The Instructor of Record will review/investigate a student's performance on a rotation when a concern is raised by the supervisor(s), and/or when the Attending Evaluation of Clerkship Student contains any below expectation marks within the professionalism area, any unsatisfactory written comments, or a total of two or more below average marks on the evaluation. After investigations, the Instructor of Record will determine a final grade for the student. After investigations, the Instructor of Record will determine a final grade for the student.

Professionalism concerns, as well as accolades, will also be referred to the MSUCOM Spartan Committee Clearinghouse for resolution, per MSUCOM's Common Ground Framework for Professional Conduct.

CORRECTIVE ACTION

There is no Corrective Action offered on this course. As determined by the Instructor of Record, the student may receive an N grade for the course if all assignments are **not completed** successfully by

the last day of rotation at 11:59pm (with the exception of the Attending Evaluation). Additionally, a letter of unprofessional behavior for late submission of assignments will be sent to the MSUCOM Spartan Community Clearinghouse.

BASE HOSPITAL REQUIREMENTS

Students are responsible for completing all additional requirements set by the hospital/clinical site at which they are completing a rotation. Students are not responsible for reporting to MSUCOM the results of any requirements that exist outside of those listed above.

STUDENT RESPONSIBILITIES AND EXPECTATIONS

STATEMENT OF PROFESSIONALISM

Principles of professionalism are not rules that specify behaviors, but guidelines that provide direction in identifying appropriate conduct. These principles include the safety and welfare of patients, competence in knowledge and skills, responsibility for consequences of actions, professional communication, confidentiality, and lifelong learning for maintenance of professional skills and judgments.

Professionalism and professional ethics are terms that signify certain scholastic, interpersonal and behavioral expectations. Among the characteristics included in this context are the knowledge, competence, demeanor, attitude, appearance, mannerisms, integrity, and morals displayed by the student to faculty, peers, patients, and colleagues in other health care professions. Students are expected to conduct themselves at all times in a professional manner and to exhibit characteristics of a professional student.

STUDENTS RIGHTS AND RESPONSIBILITIES

Each individual student is responsible for their behavior and is expected to maintain standards of academic honesty. Students share the responsibility with faculty for creating an environment that supports academic honesty and principles of professionalism. Proper relationships between faculty and students are fundamental to the college's function and this should be built on mutual respect and understanding together with shared dedication to the education process. It is a fundamental belief that each student is worthy of trust and that each student has the right to live in an academic environment that is free of injustice caused by dishonesty. While students have an obligation to assist their fellow students in meeting the common goals of their education, students have an equal obligation to maintain the highest standards of personal integrity.

MSU COLLEGE OF OSTEOPATHIC MEDICINE STANDARD POLICIES

The following are standard MSUCOM policies across all Clerkship rotations.

CLERKSHIP ATTENDANCE POLICY

MSUCOM requires student participation in clerkship rotations and clinical activities with consistent attendance to acquire the skills and knowledge that are necessary for successful program completion. Students are expected to take minimal time off outside of vacation periods built into student schedules and should only request additional time off in the rare events and circumstances outlined below.

Specific courses may have additional absence requirements from this general clerkship policy, and it is the student's responsibility to adhere to those requirements according to the respective course syllabus.

Excused Absences

Students must obtain documented approval for any full- or partial-day absence on a rotation. **Excused absences** require the completion of the *Clerkship Program Excused Absence Request Form* by taking the following steps:

- Obtain appropriate signatures on the *Clerkship Program Excused Absence Request Form* at least 30 days prior to the date of absence. An absence due to a sudden emergency is the exception to the 30-day advanced notice rule.
- Upload the completed *Clerkship Program Excused Absence Request Form* to the 'Excused Absences' folder (within the 'My Personal Documents' section) of a student's Medtrics profile.

Unexcused absences are full- or partial-day absences taken without the proper completion of the *Clerkship Program Excused Absence Request Form*, or any absences not covered in the Clerkship Attendance Policy. Unexcused absences are considered unprofessional and will result in a report to the Spartan Community Clearing House and/or the MSUCOM Committee on Student Evaluation (COSE). Unexcused absences may also have a negative impact on a student's rotation grade or evaluation.

Students are not allowed to be absent from the first day of any rotation.

- Due to the onboarding plans at most rotation sites, students must attend the first day of every rotation. Students must plan accordingly for personal days, interview days, COMLEX, etc.

Maximum time off any rotation*

Length of Rotation	Maximum Number of Days Off	
4 weeks	2 days	Should an absence exceed these limits, the student is responsible for requesting additional days off from the Associate Dean for Clerkship Education via email (COM.Clerkship@msu.edu) prior to the absence.
2 weeks	0 days	

**Exception: A fourth-year student may be absent a total of 4 days on any 4-week rotation or 2 days on any 2-week rotation during the months of October-January for interview purposes only. If interview absences exceed these totals, the student must submit a Clerkship Program Excused Absence Request Form (with appropriate signatures obtained from the rotation attending and rotation site) to the Associate Dean for Clerkship Education via email (COM.Clerkship@msu.edu) prior to the absence.*

Absence Type	Qualifications	Maximum Number of Days Off	Details	Required Approval from Associate Dean for Clerkship Education
Personal Day	May be used at the discretion of the student (example: illness, physician appt., conference time, etc.). <u>Total days off any one rotation (including personal days off)</u> cannot exceed two on any one 4-week rotation.	Five total days per academic year (July-June)	While personal days may be used at the discretion of the student, the <u>total</u> days off any one rotation (including personal days off) cannot exceed two on any one 4-week rotation, i.e., students cannot use all 5 days on one rotation.	No
Jury Duty	Court documentation must accompany the <i>Clerkship Program Absence Request Form</i>	N/A	Jury duty, when obligated, is not considered a personal day absence.	Yes
Hospital-organized community events	Example: Special Olympic Physicals	N/A	These events would be considered part of the rotation and not a personal day absence.	No
Examination	COMLEX USA Level 2 CE/USMLE Step 2 CK/Canadian MCCEE	1 day		No
	COMAT/NBME shelf examinations	Students have the time off to take the examination only	Students should be reporting to rotation before/after examination.	No
Prolonged Illness, Bereavement, Maternity Leave	Medical related absence or bereavement	Determined on a case-by-case basis	Students must contact the Associate Dean for Clerkship Education directly (enright4@msu.edu) to discuss time off rotations.	Yes

Clerkship Program Excused Absence Request Forms: Once appropriate approval signatures are obtained, forms must be uploaded to the 'Excused Absences' folder within each student's Medtrics profile. Students should maintain a copy of their records.

POLICY FOR MEDICAL STUDENT SUPERVISION

Supervisors of the Medical Students in the Clinical Setting

The MSUCOM curriculum includes required clinical experiences in a variety of clinical learning environments. The role of the student is to participate in patient care in ways that are appropriate for the student's level of training and experience and to the clinical situation. The student's clinical activities will be under the supervision of licensed physicians. This supervising physician may delegate the supervision of the medical student to a resident, fellow, or other qualified healthcare provider; however, the supervising physician retains full responsibility for the supervision of the medical students assigned to the clinical rotation and must ensure his/her designee(s) are prepared for their roles for supervision of medical students.

The physician supervisor and his/her designee(s) must be members in good standing in their facilities. They must have a license appropriate to his/her specialty of practice and be supervising the medical student within that scope of practice as delineated by the credentialing body of the facility.

Level of Supervision/Responsibilities

Clinical supervision is designed to foster progressive responsibility as a student progress through the curriculum, with the supervising physicians providing the medical student opportunity to demonstrate progressive involvement in patient care. MSUCOM students will be expected to follow clinical policies of the facility regarding medical records and clinical care. Medical student participation in patient history/physical exam, critical data analysis, management, and procedures will include, but are not limited to, factors such as:

- The student's demonstrated ability
- The student's level of education and experience
- The learning objectives of the clinical experience

First- and second-year medical students will be directly supervised at all times (supervising physician or designee present or immediately available).

Third- and fourth-year medical students will be supervised at a level appropriate to the clinical situation and that student's level of experience. For some tasks, indirect supervision may be appropriate for some students. Direct supervision would be appropriate for advanced procedures.

Supervising physicians will provide medical students with timely and specific feedback on performance. The supervising physician will complete a mid-rotation evaluative discussion with the medical student. Supervising physicians will complete a summative evaluation and are encouraged to contact the course/clerkship director with any gaps in student performance.

Medical students with any concern regarding clinical, administrative, and educational or safety issues during his/her rotation will be encouraged to contact the supervising physician or clerkship/course director.

MSUCOM STUDENT HANDBOOK

The Student Handbook is published electronically by MSUCOM for students in the Doctor of Osteopathic Medicine program. This handbook does not supersede other Michigan State University or College of Osteopathic Medicine policies, regulations, agreements, or guidelines. The Handbook is updated annually during the summer semester, with changes effective when posted. Any subsequent changes are effective as of the date of issuance.

Students shall adhere to Michigan State University and College of Osteopathic Medicine policies, procedures, agreements, and guidelines. Violations of any regulation are subject to disciplinary action, up to and including program dismissal.

COMMON GROUND FRAMEWORK FOR PROFESSIONAL CONDUCT

The Common Ground Framework provides the MSUCOM community with a reminder of the unity of mind, body, and spirit that underlines the field of osteopathic medicine. The framework is a set of guiding, foundational principles that underpin professional conduct and integrity and applies to all professionals at work within the shared college community, independent of their specific roles or responsibilities.

This framework is built around the acronym CORE, representing Collaboration, Opportunity, Responsibility, and Expertise. Each domain encompasses values and examples of how they are demonstrated.

- **Collaboration:** Working together with others
 - **Interactive:** Interact effectively and respectfully with people you encounter; demonstrate honesty, genuineness, humility, and compassion
 - **Dynamics and Communication:** Demonstrate respect, civility, and courtesy in communication; communicate effectively with diverse individuals and groups for a variety of purposes using available technologies; employ active listening.
 - **Use of Feedback:** Identify sources of feedback; deliver and receive effective feedback for initiatives, evaluations and assessments, quality improvements, conflict resolution, and peer review.
- **Opportunity:** Encouraging an environment of mutual support
 - **Shared Leadership:** Exhibit advocacy for self and others; accept situational leadership as needed; establish mutual support and respect; participate as a support for others regardless of title or position.
 - **Problem-solving:** Recognize and define problems; analyze data; implement solutions; evaluate outcomes; include the perspectives of others

- Decision-making: Fulfill commitments; be accountable for actions and outcomes; discuss and contribute your perspective in group settings; listen to multiple viewpoints prior to decision making.
- **Responsibility:** Supporting a shared culture of accountability
 - Effective Use of Time and Resources: Invest time, energy, and material resources efficiently to provide effective services; demonstrate integrity and stewardship of resources.
 - Critical Thinking Skills: Recognize and differentiate facts, illusions, and assumptions; question logically; identify gaps in information and knowledge.
 - Mindfulness and Self-Care: Actively engage in surrounding circumstances and activities; self-assess, self-correct, and self-direct; identify sources of stress and develop effective coping behaviors.
- **Expertise:** Having relevant skills or knowledge
 - Core of Knowledge: Develop core professional knowledge; apply the knowledge in clinical, academic, and administrative settings.
 - Technical Skills: Show competency and proficiency in performing tasks that are integral to the scope and practice of your profession; identify needs and resources for learning; continually see new knowledge and understanding in your profession

MEDICAL STUDENT RIGHTS AND RESPONSIBILITIES

The rights and responsibilities of students enrolled in MSUCOM are defined by the medical colleges of Michigan State University, including the College of Osteopathic Medicine, the College of Human Medicine, and the College of Veterinary Medicine. Students enrolled in the professional curricula of these colleges are identified as “medical students.” These colleges collectively define “Medical Student Rights and Responsibilities” (MSRR). This document addresses academic rights and responsibilities, governance, procedures for complaints, due process, and other topics. The current version is available on the MSU Spartan Life website at the address below: <http://splife.studentlife.msu.edu/medical-student-rights-and-responsibilities-mssr>

MSU EMAIL

To facilitate communication from faculty and staff to students, students are required to have a functioning MSU email address. Students are responsible for checking their MSU email accounts daily and maintaining their MSU mailboxes so that messages can be received.

Forwarding MSU email to another email account or failure to check email are not valid excuses for missing a deadline or other requirements of the clinical education program.

Further, students must use secure email when working in a hospital, clinic, or other health care setting if discussion of patient information is involved. MSUNet (msu.edu) email is secure; many web-based email systems including Hotmail, Gmail, and Yahoo are not.

COURSE GRADES

P/Pass – means that credit is granted, and that the student achieved a level of performance judged to be satisfactory by the department according to the student's didactic and clinical performance.

NGR/No Grade Reported– means that a final grade ('Pass' or 'No Grade') cannot be determined due to one or more missing course requirements. The NGR will be changed to a final grade once all the completed course requirements have been submitted to and processed by MSUCOM (either to the department or Clerkship Team). An 'NGR' grade will NOT remain on a student's transcript.

N/No Grade – means that no credit is granted, and that the student did not achieve a level of performance judged to be satisfactory by the department according to the student's didactic and clinical performance.

N Grade Policy

Students who fail this rotation will need to earn credit in a repeat or replacement elective rotation to fulfill degree program requirements.

STUDENT EXPOSURE PROCEDURE

A form has been developed by the University Physician to report incidents of exposure, e.g., needle sticks, mucous membrane exposure, tuberculosis exposure, etc., and it may be found on the Clerkship Medical Education page of the MSUCOM website [here](https://com.msu.edu/current-students/clerkship-medical-education) (<https://com.msu.edu/current-students/clerkship-medical-education>).

Contact Associate Dean for Clerkship Education, Dr. Susan Enright (enright4@msu.edu), if exposure incident occurs.

STUDENT VISA

Michigan State University is committed to providing equal opportunity for participation in all programs, services, and activities. Requests for accommodations by persons with disabilities may be made by contacting the Resource Center for Persons with Disabilities (RCPD) at 517-884-RCPD, or on the web at www.rcpd.msu.edu. Once a student's eligibility for (clinical and/or testing) accommodation(s) are determined, the student may be issued a **Verified Individualized Services and Accommodations** (VISA) form.

Students must present their VISA forms to the Clerkship Team (COM.Clerkship@msu.edu) at the start of the semester in which they intend to use their accommodations (for tests, projects, labs, etc.). Accommodation requests received after the semester onset will be honored whenever possible.

If modifications, updates, or extensions to an existing VISA form are made after the semester begins, it is the responsibility of the student to submit the newest version to the Clerkship Team if he/she intends to utilize the accommodation going forward.

TOPIC PAPER (OSS 648)

Pick **one** of these topics listed below to write a one-page word document paper. Turn the paper in via D2L and load it into the Activity Log section. Due the last day of the rotation at 11:59pm. Put your Name & Rotation dates on this project. Every student will turn in a paper.

Scenario #1:

A two-year-old male patient is undergoing a tonsillectomy/adenoidectomy. No prior medical history, full term baby. He is in the OR and prior to surgical incision begins to exhibit and increasing HR. from 110 to 150 bpm.

- a. Discuss a brief differential dx for this patient and recommendation for treatment. No action is "an" action.
- b. During your assessment you noticed the patient was missing an important monitor. What is the ASA standard monitors? What is another important monitor that should be used with this patient (and all pediatric patients especially)?
- c. The surgeon is ready to start and is persistent in wanting to start in order not to slow her day down. You have not figured out why HR is increasing. What do you do?
- d. While explaining your treatment of the patient, the patient SPO2 begins to drop, the CO2 waveform is zero! What is your differential dx and steps to discover it?
- e. You find the patient is biting the ET tube and cannot exchange O2. His temp is 39 Celsius. What is your diff dx and treatment?

Scenario #2:

I'm an attending anesthesiologist. I have determined a nerve block is an appropriate addition to the scheduled procedure which is a "shoulder arthroscopy" for possible rotator cuff repair.

- a. What are my initial considerations prior to choosing a specific regional anesthetic? Specifically, what would be my choice of regional anesthesia for this procedure, and why? Be creative.
- b. I have chosen a block to do for this patient. She has mentioned a non-specific "allergy" experienced at a dentist office where she was told she was allergic to "something", maybe a local anesthetic. What type of local anesthetic might it be? What are the other considerations?
- c. We have determined the risk for a local anesthetic allergy is low. In our clinical opinion it is ok to proceed with a regional anesthesia block. Which local anesthetic might you choose? What are the main properties of that local anesthetic?
- d. What information will you provide to the surgeon or surgical nursing circulator? Why? What might you report to the post op nursing team?

MID ROTATION FEEDBACK FORM (648)



College of Osteopathic Medicine
MICHIGAN STATE UNIVERSITY

MID-ROTATION FEEDBACK FORM

Student Name: _____

Evaluator Name: _____

Evaluator Signature: _____

Date of review with Student: _____

1. This assessment is based on:

- My own observations and interactions with the student.
- Feedback received from other faculty and/or resident supervisors.

2. The student is progressing satisfactorily for their level of training:

- YES
- NO

If NO, please summarize areas needing improvement below:

3. Overall comments on student performance

Strengths:	Areas of Improvement:

4. Professionalism expectations are listed below. Please check only areas of student **DIFFICULTY**:

On time for all activities of the rotation	Present/Prepared for all activities of rotation
Respectful/courteous to patients, staff, peers, attending's	Student is aware of limitations and appropriately seeks assistance when needed
A great team player (helpful, reliable, proactive)	Accepting of feedback and made necessary changes because of the feedback
Engaged in learning	Honest and trustworthy
A good patient advocate	Work ethic

STUDENT ACTIVITY LOG (ACT) OSS 648

Advanced Anesthesia Rotation

Student Name:

Base Hospital:

Rotation Dates:

Please note you will be **required to make an entry or more per day** you are on the rotation. In addition,

- Give as many details as possible regarding the procedures you were involved with.
- Give as many details as possible regarding the primary diagnosis of the patients seen.
- Complete the Meetings/Lectures portion as applicable.
- Specify the readings you completed while you were on the service.

Please note that extra lines can be added to each log by tabbing after last column

Please list all procedures observed:

Procedure	Date	Surgeon

Please list Primary Diagnosis of Patients Seen:

Primary Diagnosis	Date	Clinic / Hospital

Please list all meetings and Lectures attended:

Meeting / Lecture	Date	Topic

Please list all reading materials read on the rotation:

Material	Topic

When completed, please upload to the Dropbox on D2L

SUMMARY OF GRADING REQUIREMENTS

Requirement	Submission Method	Pass	No Grade Reported	No Pass
Attending Evaluation of Clerkship Student	Attendings receive an automated email link connecting them to their assigned evaluation(s) within Medtrics, where they may access and submit the electronic form(s) directly	<ul style="list-style-type: none"> • Student may receive “Below Expectations” in up to one (1) subcategory. • Overall categories must receive “Meets Expectations” or “Exceeds Expectations” 	Will be the conditional grade until all requirements of this rotation are met	<ul style="list-style-type: none"> • Receives two (2) or more “Below Expectations” within the subcategory sections. • Receives comments that indicate below expectations of performance. • See Unsatisfactory Clinical Performance above
Student Evaluation of Clerkship Rotation	Can be accessed and submitted electronically by students within the dashboard of their Medtrics profiles	Completed 100% and uploaded by 11:59 pm the last day of the rotation	Will be the conditional grade until all requirements of this rotation are met	Failure to complete and upload within 14 days after the rotation ends
Student Activity Log	Submit by the Dropbox in D2L	Completed 100% and uploaded by 11:59 pm the last day of the rotation	Will be the conditional grade until all requirements of this rotation are met	Failure to complete and upload within 14 days after the rotation ends
Mid Rotation Feedback Form NOT required for 2 Week Rotations	Submit by the Dropbox into Act. Log in D2L	Must be Submitted by 11:59 pm the last day of the clerkship, should be completed by end of week two and dated no later than Wednesday of Week 3.	Will be the conditional grade until all requirements of this rotation are met	Failure to complete and upload within 14 days after the rotation ends
Topic Paper	Submit by the Dropbox into Act. Log in D2L	Completed 100% and uploaded by 11:59 pm the last day of the rotation	Will be the conditional grade until all requirements of this rotation are met	Failure to complete and upload within 14 days after the rotation ends