

OSS 653  
**CORE GENERAL SURGERY**

**CLERKSHIP REQUIRED ROTATION (R2) 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 rotations.*

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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 Surgery clerkship is to provide the student with an overview of the clinical specialty. The rotation is four weeks, six credit hours in duration.

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.

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 expectation.

Office Hours: Dr. Gudakunst will be holding virtual office hours on the first Tuesday of the rotation from 6-7pm. The link will be on the D2L welcome page and sent to students in the welcome email at the beginning of each section. Any questions: [gudakun1@msu.edu](mailto:gudakun1@msu.edu)

## **ROTATION FORMAT**

The purpose of this Surgery clerkship is to provide the student with an overview of the clinical specialty. Surgery 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 surgery, which is consistent with a third-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.

## **GOALS AND OBJECTIVES**

### **GOALS AND OBJECTIVES**

1. Observe and participate in the evaluation, intra-operative, pre - operative and post-operative management of surgical patients.
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.

### **COMPETENCIES**

The Osteopathic Core Competencies covered in this rotation include:

#### **Osteopathic Principles and Practices**

- a. Approach the patient with recognition of the entire clinical context, including mind-body and psychosocial interrelationships.
- b. Diagnose clinical conditions and plan patient care.
- c. Perform or recommend OMT as a part of a treatment plan.
- d. Communicate and document treatment details.

- e. Communicate with OMM specialists and other health care providers to maximize patient treatment and outcomes, as well as to advance osteopathic manipulation research and knowledge.

### **Medical Knowledge**

- f. Articulate basic biomedical science and epidemiological and clinical science principles related to patient presentation in the cognitive, behavioral and substance abuse areas.
- g. Apply current best practices in osteopathic medicine.
- h. Use appropriate physician interventions including scientific concepts to evaluate, diagnose and manage clinical patient presentation and population health, recognize the limits of personal medical knowledge, apply EBM guidelines during practice, apply ethical and medical jurisprudence principles of patient care, outline preventative strategies across the life cycle and describe the list risk factors for psychiatric disease.

### **Patient Care**

- i. Develop a differential diagnosis appropriate to the context of the patient setting and findings.
- j. Form a patient-centered, interprofessional, evidence-based management plan.
- k. Encourage mental health promotion and disease prevention.
- l. Demonstrate accurate documentation, case presentation and team communication.

### **Interpersonal and Communication Skills**

- m. Establish and maintain the physician-patient relationship.
- n. Conduct a patient-centered interview and gather accurate data related to the patient encounter.
- o. Demonstrate effective written and electronic communication in dealing with patients and other health care professionals.
- p. Work effectively with other health professionals as a member or a leader of a health care team.

### **Professionalism**

- q. Demonstrate knowledge of the behavioral and social sciences that provide the foundation for the professionalism competency, including medical ethics, social accountability and responsibility and commitment to professional virtues and responsibilities.
- r. Demonstrate humanistic behavior including respect, compassion, probity, honest transparent business practices and trustworthiness.
- s. Demonstrate responsiveness to the needs of patients and society that supersedes self-interest.
- t. Demonstrate accountability to patients, society, and the profession, including the duty to act in response to the knowledge of professional behavior of others.
- u. Attain milestones that indicate a commitment to excellence, as, for example, through ongoing professional development as evidence of a commitment to continuous learning.
- v. Demonstrate knowledge of and the ability to apply ethical principles in the practice and research of osteopathic medicine, particularly in the areas of withholding of clinical care, confidentiality of patient information, informed consent, business practices, the conduct of research and the reporting of research results.
- w. Demonstrate awareness of and proper attention to issues of culture, religion, age, gender, sexual orientation, and mental and physical disabilities.
- x. Demonstrate understanding that the student is a representative of the osteopathic profession and is capable of making valuable contribution as a member of this society; lead

by example; provide for personal care and well-being by utilizing principles of wellness and disease prevention in the conduct of professional and personal life.

### **Practice-Based Learning and Improvement**

- y. Describe and apply evidence-based medical principles and practices.
- z. Critically evaluate medical information and its sources and apply such information appropriately to decisions relating to patient care.

### **Systems Based Practice**

- aa. The candidate must demonstrate an understanding of variant health delivery systems and their effect on the practice of a physician and the health care of patients.
- bb. The candidate must demonstrate understanding of how patient care and professional practices affect other health care professions, health care organizations and society.
- cc. The candidate must demonstrate knowledge of and the ability to implement safe, effective, timely, patient-centered equitable systems of care in a team-oriented environment to advance populations and individual patients' health.

## **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 RESOURCES**

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 home page:

#### **Core General Surgery Clerkship.**

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

### **SUGGESTED STUDY RESOURCES**

1. The recommended text for OSS 653 is Essentials of General Surgery, Sixth Edition, by Peter F. Lawrence the reading assignments will prepare the student well for day-to-day academic challenges on a general surgery rotation as well as the end of service COMAT. Each chapter contains several review questions within the text and a more extensive list can be found within the online resource that accompanies the text.
2. Lawrence, PF, O'Connell JB, Smeds MR. Essentials of General Surgery and Surgical Specialties, 6e. Philadelphia: Wolters Kluwer Health; 2019:  
<https://clerkship-lwwhealthlibrary-com.proxy2.cl.msu.edu/book.aspx?bookid=2553&rotationId=0>
3. Townsend CM, Beauchamp RD, Evers BM, Mattox KL. Sabiston Textbook of Surgery, 21e. St. Louis; Elsevier; 2022:  
<https://www-clinicalkey-com.proxy2.cl.msu.edu/#!/browse/book/3-s2.0-C20170043124?indexOverride=GLOBAL>

4. "Access Surgery" <https://accesssurgery-mhmedical-com.proxy1.cl.msu.edu/> is recommended. Current Diagnosis & Treatment, SURGERY of the Lange series is suggested as comparable to Essentials of General Surgery. If a reading reference other than Essentials of General Surgery is chosen, the student should include all areas of study as outlined in the reading assignments. "Access Surgery" provides a self-assessment area listed as "Q&A for Clerks."
5. Many other excellent texts are available although some, such as Sabastian's Textbook of Surgery, are not as realistic of a daily reading reference for the third-year student. The MSU Library has online resources as well, <http://libguides.lib.msu.edu/medicalebooks/>.
6. Office hours (virtual) will be held from 6:00pm to 7:00pm, the 2<sup>nd</sup> Tuesday of each rotation. Links will be sent to students the day before and in the welcome email. We can discuss the Surgery COMAT, rotation issues, and study strategies.

Recommended Websites

NBOME – Surgery COMAT Blueprint

<https://www.nbome.org/assessments/comat/clinical-subjects/comat-surgery/>

USMLE – Resources for Residents and Student

[https://www.ama-assn.org/residents-students/usmle?matchtype=b&network=g&device=c&adposition=1t2&keyword=%2Busmle&utm\\_effort=GG0001&qclid=EA1a1QobChMIs9nX1fCH4wIVkIrlCh07owwfEAAYAiAAEgIM2vD BwE](https://www.ama-assn.org/residents-students/usmle?matchtype=b&network=g&device=c&adposition=1t2&keyword=%2Busmle&utm_effort=GG0001&qclid=EA1a1QobChMIs9nX1fCH4wIVkIrlCh07owwfEAAYAiAAEgIM2vD BwE)

American Surgical Education, Manual of Surgical Objectives

<http://www.nbome.org/docs/surgicalobjectives.pdf>

True Learn – After reading your required material – quizzes to check your COMAT knowledge base.

[www.truelearn.com](http://www.truelearn.com)

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
COMAT	COM Clerkship will email students to register for the exam	Last Friday of the 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	Last Day of Rotation

REQUIREMENT	SUBMISSION METHOD	DUE DATE Please refer to D2L for actual (month/day) due dates
	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.	
Student Evaluation of Clerkship Rotation	Students will submit their rotation evaluations electronically at the conclusion of every rotation by accessing the Medtrics system: <a href="https://msucom.medtricslab.com/users/login/">https://msucom.medtricslab.com/users/login/</a> . 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
Pre-Rotation Quiz	Submit via D2L	Completed by 11:59pm the <b>first Sunday</b> of the rotation
Post-Rotation Quiz	Not Mandatory for grade	Not mandatory for grade
Aquifer Cases	Submit Word Doc into Mid-Rotation drobox via D2L	Honors/High Pass: Last <u>Friday</u> of the rotation by 11:59pm. Pass: Last day of the rotation by 11:59pm
Mid Rotation Feedback form	Submit via 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.
Interprofessional Education	Submit via D2L	Honors/High Pass: Last <u>Friday</u> of the rotation by 11:59pm. Pass: Last day of the rotation by 11:59pm

The summary table of what is required during this 4-week rotation is listed on the last two pages of this syllabus. You will need to complete: Mid Rotation form, IPE, pass quiz; turn in an Attending Evaluation, complete Aquifer Cases, and complete a Student Evaluation at the end of the rotation. Please double check



## WEEKLY READINGS/OBJECTIVES/ASSIGNMENTS

**Completing the reading assignment cannot be stressed enough to ensure a successful rotation. Please be advised the surgical attending and residents may provide additional reading assignments specific to the day's activity but it is unlikely that these assignments will be as inclusive or provide the review questions necessary for exam preparation.**

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>

The resources marked with a (S) refer to the Sabiston Textbook of Surgery those marked with a (L) refer to the Lawrence book, "Essentials of General Surgery and Surgical Specialties." See Suggested Study Resources above.

### **General**

The general surgery clerkship learning objectives encompass three primary areas:

1. Knowledge (cognitive) Skills (psychomotor)
2. Problem Solving
3. Professional Development

**Learning Objectives:** By the end of the clerkship, given a patient scenario in a hospital/clinical setting, students should be able to meet the following OPP objectives (for clinical clerkship) with accuracy:

1. Discuss post-op conditions and osteopathic treatments of:
  - Ileus
  - Atelectasis
  - Pain

### **Activities/Resources:**

1. Foundations of Osteopathic Medicine Chapter 44: Abdominal Pain with Cases  
Available at:  
<https://ezproxy.msu.edu/login?url=https://meded.lwwhealthlibrary.com/book.aspx?bookid=2582>  
<https://meded.lwwhealthlibrary.com/content.aspx?sectionid=209553137&bookid=2582>
2. Workshop #1: Osteopathic Evaluation and Treatment of the Hospitalized Patient (Link available on D2L)
3. Workshop #3: Evaluation and Treatment of Patients who have undergone Abdominal Surgical Procedures: #1 and #3 (Links available on D2L)

### **Acute Abdomen**

#### **Learning Objectives:**

1. Discuss the history and physical exam of the abdomen.

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2. Analyze the more common causes of an acute abdomen.
3. Compare and contrast the relationship of location and etiology of abdominal pain.
4. BASIC SCIENCE LINKS
  - Anatomy
  - Physiology
5. OPC SKILLS REVIEW
  - Abdomen Exam

### **Activities/Resources:**

1. Read Sabiston, Acute Abdomen, Chapter 46  
<https://www-clinicalkey-com.proxy1.cl.msu.edu/#!/content/book/3-s2.0-B9780323640626000463>
2. Access Surgery
  - Exploring Essential Surgery
  - The Surgical History
  - The Surgical Examination
  - Examination of the Abdomen
3. Topic Review Questions at the end of the chapter
4. Optional On-Line Review Questions through Access Surgery

## **Fluids and Electrolytes**

### **Learning Objectives:**

1. Identify normal electrolyte and pH values.
2. Discuss sources of operative and postoperative fluid losses and replacement.
3. Analyze the presentation and evaluation of Syndrome of Inappropriate Secretion of ADH and electrolyte imbalance and discuss treatments.
4. Compare presentation, diagnosis, and treatment of Acid-Base Imbalance.
5. BASIC SCIENCE LINKS
  - Physiology

### **Activities/Resources:**

1. Chapter 2 (L) Fluids, Electrolytes and Acid-Base  
<https://clerkship-lwwhealthlibrary-com.proxy2.cl.msu.edu/content.aspx?sectionid=205017097&bookid=2553&rotationId=0>
2. Topic Review Questions at the end of the chapter: Chapter 2 (L) Fluids, Electrolytes and Acid-Base Balance
3. Optional On-Line Review Questions through Access Surgery (see details page 15 below)

## **Nutritional Support**

### **Learning Objectives:**

1. Discuss the assessment of nutritional status and basic nutritional needs.
2. Discuss indications and techniques of nutritional support.

### **Activities/Resources:**

1. Read Chapter 3 (L) Surgical Nutrition  
<https://clerkship-lwwhealthlibrary-com.proxy2.cl.msu.edu/content.aspx?sectionid=205017246&bookid=2553&rotationId=0>

2. Topic Review Questions at the end of the chapter: Chapter 3 (L) Nutrition
3. Optional On-Line Review Questions through Access Surgery (see details page 15 below)

### **Postoperative Complications**

#### ***Learning Objectives:***

1. Discuss common postoperative complications:
  - Fever
  - Atelectasis
  - Wound Failure
  - Site infection
2. Analyze the various etiology, presentation, evaluation, and treatment of malignant hyperthermia.

#### ***Activities/Resources:***

1. Chapter 1 (L) Perioperative Evaluation and Management of Surgical Patients  
<https://clerkship-lwwhealthlibrary-com.proxy2.cl.msu.edu/content.aspx?sectionid=205016943&bookid=2553&rotationId=0>
2. Topic Review Questions at the end of the chapter: Chapter 1 Perioperative Evaluation and Management of Surgical Patients
3. Optional On-Line Review Questions through Access Surgery (see details page 15 below)

### **Coagulation and Transfusion**

#### ***Learning Objectives:***

1. Be able to diagram and explain the coagulation pathways.
2. Discuss the evaluation of bleeding and clotting disorders.
3. Discuss the evaluation and treatment of a bleeding patient.
4. Analyze component blood therapy and its complications.

#### ***Activities/Resources:***

1. Read Chapter 4 (L) Surgical Bleeding: Bleeding Disorders, Hypercoagulable States, and Replacement Therapy in the Surgical Patient  
<https://clerkship-lwwhealthlibrary-com.proxy2.cl.msu.edu/content.aspx?sectionid=205017374&bookid=2553&rotationId=0>
2. Topic Review Questions at the end of the chapter: Chapter 4, Surgical Bleeding: Bleeding Disorders, Hypercoagulable States, and Replacement Therapy in the Surgical Patient

### **Shock**

#### ***Learning Objectives:***

1. Describe the primary mechanisms of shock and their etiology.
2. Discuss the evaluation and treatment of the primary mechanisms of shock.
3. BASIC SCIENCE LINKS
  - Physiology
4. OPC SKILLS REVIEW
  - Vital Skills

#### ***Activities/Resources:***

1. Read Chapter 5 (L) Surgery Critical Care

<https://www-clinicalkey-com.proxy1.cl.msu.edu/#!/content/book/3-s2.0-B9780323640626000220>

### **Wounds and Wound Healing**

#### ***Learning Objectives:***

1. Discuss the process of wound healing.
2. Distinguish between the types and treatments of skin ulcers.
3. Compare/contrast the distinct types of suture material and their advantages/disadvantages.
4. Compare and contrast the distinct types of local anesthetics and their dosages.
5. Discuss the process of wound healing.
6. BASIC SCIENCE LINKS
  - Histology/Physiology
  - Antibiotic Therapy

#### ***Activities/Resources:***

1. Read Chapter 7 (L) Wound Healing

<https://www-clinicalkey-com.proxy1.cl.msu.edu/#!/content/book/3-s2.0-B9780323640626000062>

### **Surgical Infections**

#### ***Learning Objectives:***

1. Analyze the difference between prophylactic use and the treatment of infection.
2. Discuss the bacteriology of common surgical infections.
3. BASIC SCIENCE LINKS
  - Microbiology
  - Pharmacology

#### ***Activities/Resources:***

1. Read Chapter 8 (L) Surgical Infections

<https://clerkship-lwwhealthlibrary-com.proxy2.cl.msu.edu/content.aspx?sectionid=205017825&bookid=2553&rotationId=0>

### **Trauma**

#### ***Learning Objectives:***

1. Rank the steps and priorities of evaluating a patient with multiple injuries.
2. Discuss the Glasgow Coma Scale.
3. OPC SKILLS REVIEW
  - Physical Exam

#### ***Activities/Resources:***

1. Read Chapter 9 (L) Trauma

<https://clerkship-lwwhealthlibrary-com.proxy2.cl.msu.edu/content.aspx?sectionid=205017935&bookid=2553&rotationId=0>

### **Burns**

#### ***Learning Objectives:***

1. Classify the various depths of burn injuries.
2. Discuss the principles of burn care including fluid replacement.
3. Be able to calculate Body Surface Area.
4. Discuss the types of treatment for inhalation injury.

5. BASIC SCIENCE LINKS

- Anatomy
- Histology
- Physiology

**Activities/Resources:**

1. Read Chapter 10 (L) Burn General Surgery and Surgical Specialties, Peter F. Lawrence, Pg., 108-124:  
<https://clerkship-lwwhealthlibrary-com.proxy2.cl.msu.edu/content.aspx?sectionid=205018144&bookid=2553&rotationId=0>

**Hernia**

**Learning Objectives:**

1. Discuss the layers of the abdominal wall/assess abdominal wall hernias.
2. Distinguish between the distinct types of abdominal wall hernias and their repairs.
3. BASIC SCIENCE LINKS
  - Anatomy
4. OPC SKILLS REVIEW
  - Physical Examination

**Activities/Resources:**

1. Read Chapter 11 (L) Abdominal Wall, Including Hernia General Surgery and Surgical Specialties, Peter F. Lawrence, Pg., 25-139:  
<https://clerkship-lwwhealthlibrary-com.proxy2.cl.msu.edu/content.aspx?sectionid=205018283&bookid=2553&rotationId=0>

**Esophagus**

**Learning Objectives:**

1. Differentiate the anatomy/physiology of the esophagus relative to its functional disorders.
2. Compare/contrast between the several types/ treatments of benign/malignant esophageal neoplasms.
3. BASIC SCIENCE LINKS
  - Anatomy
  - Physiology

**Activities/Resources:**

1. Read Chapter 12 (L) Esophagus  
<https://clerkship-lwwhealthlibrary-com.proxy2.cl.msu.edu/content.aspx?sectionid=205018446&bookid=2553&rotationId=0>

**Peptic Ulcer Disease**

**Learning Objectives:**

1. Discuss the physiology of gastric acid production.
2. Explain the various complications of peptic ulcer disease.
3. BASIC SCIENCE LINKS
  - Physiology
  - Histology

**Activities/Resources:**

1. Read Chapter 13 (L) Stomach and Duodenum

<https://clerkship-lwwhealthlibrary-com.proxy2.cl.msu.edu/content.aspx?sectionid=205018643&bookid=2553&rotationId=0>

### **Small Bowel and Appendix**

#### ***Learning Objectives:***

1. Discuss Meckel's diverticulum and its indications for resection.
2. Discuss the presentation and evaluation of appendicitis.
3. Compare and contrast the benign and malignant lesions of the small bowel and appendix.
4. Discuss the presentation, evaluation, and etiology of small bowel obstruction.
5. BASIC SCIENCE LINKS
  - Anatomy
  - Histology
  - Physiology
6. OPC SKILLS REVIEW
  - Abdominal Exam

#### ***Activities/Resources:***

1. Read Chapter 14 (L) Small Intestine and Appendix

<https://clerkship-lwwhealthlibrary-com.proxy2.cl.msu.edu/content.aspx?sectionid=205018964&bookid=2553&rotationId=0>

### **Colon and Rectum**

#### ***Learning Objectives:***

1. Discuss the anatomy of the colon to include its divisions, arterial and lymphatic supply.
2. Compare inflammatory bowel disease and its complications.
3. Analyze complications and treatment of diverticular disease.
4. Discuss the etiology and evaluation of trans rectal bleeding.
5. Analyze the various premalignant conditions of the colon.
6. Discuss the staging and metastatic pattern of colon cancer.
7. Discuss the evaluation and treatment of hemorrhoids and perirectal abscesses.
8. Discuss the staging and treatment of rectal cancer.
9. BASIC SCIENCE LINKS
  - Anatomy
  - Microbiology
  - Histology
  - Physiology

#### ***Activities/Resources:***

1. Read Chapter 15 (L) Colon, Rectum and Anus

<https://clerkship-lwwhealthlibrary-com.proxy2.cl.msu.edu/content.aspx?sectionid=205019171&bookid=2553&rotationId=0>

### **Gall Bladder**

#### ***Learning Objectives:***

1. Analyze the anatomic structures associated with the gall bladder.
2. Assess the presentation and evaluation of cholecystitis.
3. Discuss the bacteriology of acute cholecystitis.
4. Discuss cholelithiasis and its complications.
5. BASIC SCIENCE LINKS
  - Microbiology

- Physiology

**Activities/Resources:**

1. Read Chapter 16 (L) Biliary Tract

Lawrence, Chapter 16, Biliary Tract: <https://clerkship-lwwhealthlibrary-com.proxy2.cl.msu.edu/content.aspx?sectionid=205019434&bookid=2553&rotationId=0>

**Pancreas**

**Learning Objectives:**

1. Discuss the presentation, etiology, and evaluation of pancreatitis.
2. Discuss the difference between acute and chronic pancreatitis.
3. Discuss the complications of pancreatitis.
4. Discuss the presentation, evaluation, and treatment of pancreatic cancer.
5. BASIC SCIENCE LINKS

- Physiology
- Anatomy
- Histology

**Activities/Resources:**

1. Read Chapter 17 (L) Pancreas:

<https://clerkship-lwwhealthlibrary-com.proxy2.cl.msu.edu/content.aspx?sectionid=205019570&bookid=2553&rotationId=0>

**Liver and Spleen**

**Learning Objectives for Liver:**

1. Distinguish between and describe three common benign tumors of the liver and their treatments.
2. Describe the various acute and chronic forms of hepatitis.
3. Explain the testing guidelines for the distinct types of hepatitis.
4. Discuss the difference in presentation of primary and metastatic liver cancer.
5. BASIC SCIENCE LINKS
  - Histology

**Learning Objectives for Spleen:**

1. Discuss the examination of the spleen.
2. Discuss etiology and treatment of splenomegaly.
3. Discuss the effect of splenectomy on the immune status of children and adults.
4. BASIC SCIENCE LINKS
  - Anatomy
5. OPC SKILLS REVIEW
  - Abdominal Exam

**Activities/Resources:**

1. Read Chapter 18 (L) Liver and Spleen General Surgery and Surgical Specialties, Peter F. Lawrence, Pg., 317-344:

<https://clerkship-lwwhealthlibrary-com.proxy2.cl.msu.edu/content.aspx?sectionid=205020241&bookid=2553&rotationId=0>

**Breast Tumors**

**Learning Objectives:**

1. Categorize the more common forms of benign and malignant breast disease.

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2. Demonstrate the evaluation of breast mass.
3. Discuss the staging of breast cancer and the signs of advanced disease.
4. BASIC SCIENCE LINKS
  - Histology
5. OPC SKILLS REVIEW
  - Breast Exam

### ***Activities/Resources:***

1. Read Chapter 19 (L) Breast  
<https://clerkship-lwwhealthlibrary-com.proxy2.cl.msu.edu/content.aspx?sectionid=205019768&bookid=2553&rotationId=0>

### **Surgical Endocrinology**

#### ***Learning Objectives:***

1. Analyze the relationship anatomy of the thyroid gland.
2. Discuss the physiology of the thyroid and its functional abnormalities.
3. Categorize the benign and malignant forms of thyroid nodules.
4. Discuss the evaluation of a thyroid nodule.
5. Discuss the function of the adrenal glands.
6. Discuss the presentation of benign and malignant adrenal tumors.
7. OPC SKILLS REVIEW
  - Thyroid Exam

### ***Activities/Resources:***

1. Read Chapter 20 (L) Surgical Endocrinology  
<https://clerkship-lwwhealthlibrary-com.proxy2.cl.msu.edu/content.aspx?sectionid=205019948&bookid=2553&rotationId=0>

### **Skin Cancer**

#### ***Learning Objectives:***

1. Discuss the presentation and treatment of the three most common skin cancers.
2. Discuss the staging of malignant melanoma.
3. BASIC SCIENCE LINKS
  - Histology
4. OPC SKILLS REVIEW
  - Physical Exam

### ***Activities/Resources:***

1. Read Chapter 22 (L) Surgical Oncology: Malignancy of the Skin and Soft Tissue  
<https://clerkship-lwwhealthlibrary-com.proxy2.cl.msu.edu/content.aspx?sectionid=205020682&bookid=2553&rotationId=0>

## **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 3<sup>rd</sup> Wednesday of the rotation. Students must upload the form to a D2L drop box by 11:59 pm on the last day of the clerkship in order to be honor's eligible or obtain a High Pass in the rotation. A grade cannot be entered for the course until all requirements of the course have been met.



**INTERPROFESSIONAL EDUCATION**

Inter Professional Education (also known as “IPE”) refers to occasions when students from two or more professions in health and social care learn together during all or part of their professional training with the object of cultivating collaborative practice for providing client- or patient-centered health care.

Students are required to complete one form per Core Rotation in Surgery. Please complete the following worksheet based on one (1) Time out you observed on your rotation. Once completed please submit to the Dropbox on D2L by 11:59pm on the last Sunday of the rotation. The form is found at the end of the syllabus.

**AQUIFER – REQUIRED**

You will need to log into this website using your MSU email and you can create your own password.

Go to: [www.aquifer.org](http://www.aquifer.org) Go to the SIGN IN box and click it Enter MSU email /select MSUCOM.

Once you register and enter email and password – next screen click on: Courses, Sign In, then Launch WISE-MD

You will see: **SURGERY** **SKILL** **REPORTS**

Below are listed 22 Surgery Modules your Instructor of Record wants you to participate in **13** – you choose. You will view the video and take quizzes within the module and incorrect answers will give you the correct result for your own knowledge.

You will also view ALL Skill Modules for general information (no quiz with these sections). Below is a list to view. You will participate in the whole list.

*Reports:* Notice the grey box to select the surgery or skill pages. Once you have completed the required Wise-MD Surgery/Skills Module sections you will go to the Report Section that shows module progress and shows completion of the surgery modules and skills. Copy/paste in a word doc (use Landscape layout to show all data) and upload in the Mid-Rotation/Aquifer drop box.

The deadline for the completion of the Wise-MD modules is the last day of the rotation.

**Participating in the case modules does not in any way preclude you from reviewing the required objectives listed in your syllabus!**

CASE MODULES		SKILL MODULES
Appendicitis	Abd. Aortic Aneurysms	Best Practices
Colon Cancer	Adrenal Adenoma	Ultrasound of Cholecystitis/Cholelithiasis
Anorectal Disease	Ped. Pyloric Stenosis	Ultrasound Basic Principles
Bowel Obstruction	Carotid Stenosis	Ultrasound of the Breast
Bariatric	Venous Thromboembolism	Ultrasound of the Thyroid
Cholecystitis	Diverticulitis	Ultrasound E-FAST exam
Pancreatitis	Hypercalcemia	Ultrasound in Vascular Access
Breast Cancer	Lung Cancer	Ultrasound of the Carotid Artery
Pediatric Hernia	Trauma Resuscitation	Ultrasound of the ABI
Inguinal Hernia		Ultrasound of the Adb. Aortic Aneurysm
Thyroid Nodule		Two Handed Knot Tie /Suturing & Instru. Tie
Skin Cancer		Surgical Instruments / Foley Cath Placement
Burn Management		Epidural Placement Technique

**ACCESS SURGERY – Optional Learning**

You have access to 61 different case files for additional learning opportunities, which includes short answer and multiply choice answer quizzes. You will attain a SIGN IN to MyAccess Profile from the main page and use your MSU email for access.

We encourage you to read the associated chapter in the Lawrence textbook before doing each case for a more thorough educational understanding.

To access the cases:

**STEP 1:** Copy and Paste below link into search bar and SAVE in bookmarks for future use.  
<https://accesssurgery-mhmedical-com.proxy2.cl.msu.edu/>

Now you see the Electronic Medical Books page. Scroll down to the alphabetical list to the heading -Surgery. Click on the first selection ACCESS SURGERY.

**SIGN IN:** Is located at the top right of the main screen, click on the Sign In box and **Create a Free MyAccess Profile.**

**CASES: Shown** on main page of Access Surgery Cases – click down arrow and select the Case File Surgery menu, it will show you the 61 different cases you can pick from. Once you click on a File Case, it will open the Case Review and you will begin the quiz.

**Quiz:** Once you begin your quiz, you will have short answer question section – SAVE answers, then the site will show you answers that would fit the case presentation. Then click **NEXT** to move you forward to the following sections: Approach (definitions), Clinical Pearls (tips on your case), References (textbooks to review) and then your Comprehension Question Quiz.

After you select your first answer, you click Submit & View Answer to see if you got it correct and if not, you can see what the proper choice would have been, then it will move you to the next question. After last question, click on **Return to Top of Results**, then select top right, next to your name, click the down arrow in that box to show you: **My Review Questions**

If asked by IOR or Course Assistant to save work, follow the below instructions:

**My Review Questions:** This page shows you the date you took the quiz, score, and Quiz Name –which you will have to **RENAME!!** After you take each quiz, go to this page, and click the **Edit Rename** button and remove Case File – Surgery 5e and type in: Small Bowel Syndrome or Diverticulitis etc.... **SAVE THE CHANGE!**

**Getting back to the Cases to pick from:** Click on **McGrew-Hill Medical** tab top LEFT of page – takes you back to the beginning. Go to the middle column and click Access Surgery, start over with a new case and repeat instructions.

**Saving work: After** you complete ten cases, copy, and paste in Word Doc the My Review Questions page into enter the word document into **Aquifer in D2L.**

## COMAT EXAM

### **DUE DATE: The last Friday of the Rotation**

For information on exam registration and administration, please visit the COM Clerkship Student Portal: <https://michiganstate.sharepoint.com/sites/StudentClerkship>

If a student requires accommodation, a valid VISA from the Resource Center for Persons with Disabilities must be presented to the COM Clerkship Team 7 days in advance of the COMAT examination date. The student must also disclose which allowed accommodations they intend to use for the exam 7 days in advance of the COMAT examination date.

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- It is your responsibility to contact the Course Assistant, Shawn Olds at [oldss@msu.edu](mailto:oldss@msu.edu) by the end of the first week of the rotation if you have a conflict regarding taking the exam on the last Friday of the rotation, in order for consideration of delaying the exam.
- It is your responsibility to contact the Course Assistant, Shawn Olds at [oldss@msu.edu](mailto:oldss@msu.edu) within in 24 hours of an emergency that will keep you from taking the exam on the last Friday of the rotation, in order to consider delaying the exam.
- **It is your responsibility to take the exam on the last Friday of the rotation. If this deadline is not met (with the exclusion of the above two scenarios) you will receive a "0" for that attempt of the exam and will only be given one (1) time to take and pass the COMAT the next time the exam is offered or will receive an "N" grade for the rotation.**
- Students must score at or above 83 the day you take the exam.
- Each student will be allowed to take the Obstetrics and Gynecology COMAT exam only twice (one time if the first attempt is missed) before receiving an "N" grade for the rotation.
- **The second attempt of the exam will need to be done the next time the COMAT exam is offered, or the students exam schedule will allow, or the student will receive an "N" grade for the rotation. If you receive the N grade, you will repeat the entire rotation again and must pass all the requirements. The Department will notify students of their failure.**

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- **Honors:** You will need to score at or above 110 the first time you take the exam. In addition to the other Honors Requirements met.
- **High Pass:** You will need to score from 103 to 109 to be considered for High Pass. In addition to the other High Pass Requirements met.
- **Pass:** You will need to score at or above 83 the day you take the exam. In addition to having the other Passing Requirements met.
- **NGR/No Grade Reported:** Will be the conditional grade given until all the requirements of this rotation are met.
- **N:** Not taking or passing the COMAT Exam by the due date, failing exam twice will result in an N grade. If you have two or more below expectations marks on your Attending Evaluation you will receive an N grade.

## 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](mailto: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.

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

If a student does not successfully complete the rotation requirements of the course, the student will receive an NGR grade and be permitted to go through a 'corrective action' process.

The following assignments are eligible for corrective action and will be due no later than 14 days after the last day of the rotation at 11:59pm:

1. Pre-rotation quiz:

- The student will be required to take the pre-rotation quiz. It will be reopened for one week; dates and times will be outlined in the Corrective Action email sent by the Course Assistant.

2 Interprofessional Education requirement:

- If the student fails to complete this requirement, the student will be given a period of 14-days after completion of the course to complete all required elements of the Inter Professional Education form and upload to D2L.

3. Aquifer Cases

- If the student fails to complete this requirement, the student will be given a period of 14-days after completion of the course to complete all required elements of Aquifer and upload in D2L in Aquifer.

#### 4. COMAT

- It is your responsibility to contact the Course Assistant, Shawn Olds at [oldss@msu.edu](mailto:oldss@msu.edu) by the end of the first week of the rotation if you have a conflict regarding taking the exam on the last Friday of the rotation, in order for consideration of delaying the exam.
- It is your responsibility to contact the Course Assistant, Shawn Old at [oldss@msu.edu](mailto:oldss@msu.edu) within in 24 hours of an emergency that will keep you from taking the exam on the last Friday of the rotation, in order for delay the exam.
- **It is your responsibility to take the exam on the last Friday of the rotation at the time and location you have registered for. If this deadline is not met (with the exclusion of the above two scenarios) you will receive a zero for that attempt of the exam and will only be given one (1) time to take and pass the COMAT the next time the exam is offered or will receive an "N" grade for the rotation.**
- Each student will be allowed to take the Surgery COMAT exam only twice (one time if the first attempt is missed) before receiving an "N" grade for the rotation.
- **The second attempt of the exam will need to be done the next time the COMAT exam is offered, or the students exam schedule will allow, or the student will receive an "N" grade for the rotation.**
- The Department will notify students of their failure.

The student is responsible for contacting the Course Assistant (on the title page of this syllabus) if they believe missing assignments were reported in error, or if they are unclear about the corrective action process.

While it is the responsibility of the student to ensure that the Attending Evaluation of Clerkship Student is completed, this requirement may extend beyond the corrective action deadline. Additionally, in the event of a failing score earned on the student's first attempt of a COMAT subject exam, the corrective action for the COMAT retake may extend beyond 14-days.

If a student **successfully completes** the corrective action process, as determined by the IOR, the student will receive credit for the deficient academic grading requirement(s) and be eligible for a change in rotation grade (from NGR to Pass, pending the Attending Evaluation of Clerkship Student and, if applicable, score on his/her COMAT retake).

As determined by the IOR, the student will receive an N grade for the course if all assignments and the corrective action process are **not completed** successfully within 14-days after 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

The Attendance Policy and State of Professionalism are listed below. MSUCOM students will present themselves with the utmost level of professionalism, be respectful of each person they encounter and above all show a high level of integrity. Always ask questions if unsure reach out to hospital staff or MSUCOM Clerkship. We expect a lot from you, remember we are here for you and want you to be successful!

## 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 ( <a href="mailto:COM.Clerkship@msu.edu">COM.Clerkship@msu.edu</a> ) 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

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*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](mailto: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 ( <a href="mailto:enright4@msu.edu">enright4@msu.edu</a> ) 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 always supervised (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 making a decision

- **Responsibility:** Supporting a shared culture of accountability
  - Effective Use of Time and Resources: Invest time, energy, and material resources efficiently in order 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

**H/Honors** – A grade of honors will be designated to students demonstrating outstanding clinical, professional, and academic performance in the Surgery rotation and scoring a 110 or higher on the COMAT. Criteria for achieving honors in the Surgery rotation will be determined by the Instructor of Record and will be listed in the course syllabus. While

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Honors designation will be awarded to students meeting the criteria in the syllabi of the above courses, Honors is not an official MSU grade. The official MSUCOM transcript will reflect a grade as Pass with an additional notation that the student achieved Honors in the course. The student's Medical Student Performance Evaluation will reflect each Honors grade.

**HP/High Pass** – The grade of High Pass will be designated to students who have above average clinical, professional, and academic performance in certain core rotations but do not meet the criteria for Honors. Criteria for High Pass is receiving 103-109 on your COMAT and completing all other HONORS requirements. While High Pass designation will be awarded to students meeting the criteria in the syllabi of the above courses, High Pass is not an official MSU grade. The official MSUCOM transcript will reflect a grade as Pass with an additional notation that the student achieved High Pass in the course. The student's Medical Student Performance Evaluation will reflect each High Pass grade.

**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 Grade** – 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 have to repeat the entire rotation and fulfill all (clinical and academic) 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](mailto: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

General Surgery OSS 653

(RCPD) at 517-884-RCPD, or on the web at [www.rcpd.msu.edu](http://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](mailto: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.

## **INTER PROFESSIONAL EDUCATION – IPE**

Inter professional education (also known as inter-professional education or “IPE”) refers to occasions when students from two or more professions in health and social care learn together during all or part of their professional training with the object of cultivating collaborative practice for providing client- or patient-centered health care.

Please complete the following worksheet based on one (1) Time out you observed on your rotation. Circle the Core Rotation and your answers on this form. Please upload it to the drop box on D2L.

OSS 653 Surgery - Core

Name:

MSUCOM Rotation:

Dates of Rotation:

Base Hospital:

1. Did the time outs occur?    Yes    No
  
2. Who was in attendance for the time out:

Doctor

Medical Students

Nurse (Circulation)

Residents

Scrub Tech

Anesthesia (Dr/CRNA)

Other(s)

Did everyone in attendance participate in the time out?            Yes    No

3. Did any issues/concerns arise?    Yes    No

How were they addressed?

4. Please take a moment to explain your reflections on the time outs you observed in surgery. Were they helpful? How could they have been improved?

# MID ROTATION FEEDBACK FORM (653)



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
	Good patient advocate	Work ethic

**SUMMARY OF GRADING REQUIREMENTS**

<b>Requirement</b>	<b>Submission Method</b>	<b>Honors Designation</b>	<b>High Pass</b>	<b>Pass</b>	<b>No Grade Reported</b>	<b>No Pass</b>
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"> <li>• Receives no "Below Expectations."</li> <li>• Receives no comments indicating below expectations of performance</li> </ul>	<ul style="list-style-type: none"> <li>• Receives no "Below Expectations."</li> <li>• Receives no comments indicating below expectations of performance</li> </ul>	<ul style="list-style-type: none"> <li>• Student may receive "Below Expectations" in up to one (1) subcategory.</li> <li>• Overall categories must receive "Meets Expectations" or "Exceeds Expectations"</li> </ul>	Will be the conditional grade until all requirements of this rotation are met	<ul style="list-style-type: none"> <li>• Receives two (2) or more "Below Expectations" within the subcategory sections.</li> <li>• Receives comments that indicate below expectations of performance.</li> <li>• See Unsatisfactory Clinical Performance above</li> </ul>
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 Friday of the rotation.	Completed 100% and uploaded by 11:59 pm the last Friday of the rotation.	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.
Pre-Rotation Quiz	Submit via D2L	Completed by 11:59 pm the first Sunday of the Rotation	Completed by 11:59 pm the first Sunday of the Rotation	Completed 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 the quiz and the corrective action.
Post-Rotation Quiz	Submit via D2L	Not mandatory for grade	Not mandatory for grade	Not mandatory for grade	Not mandatory for grade	Not mandatory for grade



Requirement	Submission Method	Honors Designation	High Pass	Pass	No Grade Reported	No Pass
Aquifer	Submit via D2L	Completed 100% and uploaded by 11:59 pm the last Friday of the rotation	Completed 100% and uploaded by 11:59 pm the last Friday of the rotation	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	Submit on D2L (Mid Rotation 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.	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.	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
Inter Professional Education	Submit on D2L	Completed 100% and uploaded by 11:59 pm the last Friday of the rotation	Completed 100% and uploaded by 11:59 pm the last Friday of the rotation	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
COMAT Exam	Exam taken last Friday of rotation	Score at or above 110 on the first attempt you take the exam	Score between 103-109 on the first attempt you take the exam	<ul style="list-style-type: none"> <li>Score at or above 83 the first attempt of the exam.</li> <li>Score at or above 83 the day you retake the exam.</li> <li>If you fail to take your exam on the last Friday of the Rotation, you will receive a zero and have one chance to retake the exam.</li> </ul>	Will be the conditional grade until all requirements of this rotation are met	<ul style="list-style-type: none"> <li>Failure to pass the exam with two attempts.</li> <li>Failure to not take the retake in the time given.</li> <li>Failure to take the exam the first time offered and not pass the exam on your second (due to the first attempt</li> </ul>

<b>Requirement</b>	<b>Submission Method</b>	<b>Honors Designation</b>	<b>High Pass</b>	<b>Pass</b>	<b>No Grade Reported</b>	<b>No Pass</b>
						being a (zero) attempt