At 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 General Surgery clerkship is to provide the student with an overview of the clinical specialty.

Rotations are four weeks, 6 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.

Please note that we have included links to the reading materials. Should the links not work for you, please cut, and paste them 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.

GOALS AND OBJECTIVES

GOALS
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 in 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.

OBJECTIVES

The topics marked as (S) Sabiston Textbook or (L) Lawrence Textbook as a suggested reference.

Lawrence, PF, O’Connell JB, Smeds MR. Essentials of General Surgery and Surgical Specialties, 6e. Philadelphia: Wolters Kluwer Health; 2019

Townsend CM, Beauchamp RD, Evers BM, Mattox KL. Sabiston Textbook of Surgery, 21e. St. Louis; Elsevier; 2022
- Available at: [https://www-clinicalkey-com.proxy2.cl.msu.edu/#!/browse/book/3-s2.0-C20170043124?indexOverride=GLOBAL](https://www-clinicalkey-com.proxy2.cl.msu.edu/#!/browse/book/3-s2.0-C20170043124?indexOverride=GLOBAL)

The general surgery clerkship learning objectives encompass three main areas:

1. Knowledge (cognitive) Skills (psychomotor)
2. Problem Solving
3. Professional Development
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. Post-op conditions and treatments of:
   - Ileus
   - Atelectasis
   - Pain

   Foundations of Osteopathic Medicine Chapter 44: Abdominal Region with Cases
   Available at:
   Foundations of Osteopathic Medicine, Chapter 44: Abdominal Region

   https://meded-lwwhealthlibrary-com.proxy1.cl.msu.edu/content.aspx?sectionid=50007388&bookid=757#50103487


2. Workshop #1: Osteopathic Evaluation and Treatment of the Hospitalized Patient

3. Workshop #3: Evaluation and Treatment of Patients who have undergone Abdominal Surgical Procedures
   (#2 and #3 can be viewed at: Link to the Statewide Campus System Video Library)

   Acute Abdomen (S)
   Clinicalkey, Sabiston, Acute Abdomen, Chapter 74, 2061-2100

   https://www-clinicalkey-com.proxy2.cl.msu.edu#!/content/book/3-s2.0-B9780323640626000748?scrollTo=%23hl0001273

SPECIFIC LEARNING OBJECTIVES
1. Discuss the history and physical exam of the abdomen.
2. Analyze the more common causes of an acute abdomen.
3. Compare and contrast the relationship of location and etiology of abdominal pain.

BASIC SCIENCE LINKS
1. Anatomy
2. Physiology

OPC SKILLS REVIEW
1. Abdomen Exam

LABS and OTHER ACTIVITIES
1. MSU Libraries
   a. Access Surgery
      i. Exploring Essential Surgery
         1. The Surgical History
         2. The Surgical Examination
         3. Examination of the Abdomen
2. Topic Review Questions at the end of the chapter
3. On-Line Review Questions

**Fluids and Electrolytes**

**Chapter 2 (L) Fluids, Electrolytes and Acid-Base Balance**

*Lawrence, chapter 2, fluids, electrolytes, acid base balance*

https://clerkship-lwwhealthlibrary-com.proxy2.cl.msu.edu/content.aspx?sectionid=205017097&bookid=2553&rotationId=0

**SPECIFIC 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.

**BASIC SCIENCE LINKS**

1. Physiology

**LABS and OTHER ACTIVITIES**

1. Topic Review Questions at the end of the chapter: Chapter 2 (L) Fluids, Electrolytes and Acid-Base Balance
2. On-Line Review Questions

**Nutritional Support**

**Chapter 3 (L) Surgical Nutrition**

*Lawrence, chapter 3: Surgical Nutrition*

https://clerkship-lwwhealthlibrary-com.proxy2.cl.msu.edu/content.aspx?sectionid=205017246&bookid=2553&rotationId=0

**SPECIFIC LEARNING OBJECTIVES**

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

**LABS and OTHER ACTIVITIES**

1. Topic Review Questions at the end of the chapter: Chapter 3 (L) Nutrition
2. On-Line Review Questions

**Postoperative Complications**

**Chapter 1 (L) Perioperative Evaluation and Management of Surgical Patients**

*Lawrence, chapter 1, Perioperative Evaluation, Management of Surgical Patients*
SPECIFIC LEARNING OBJECTIVES
1. Discuss common postoperative complications:
   a. Fever
   b. Atelectasis
   c. Wound Failure
   d. Site infection
2. Analyze the various etiology, presentation, evaluation and treatment of malignant hyperthermia.

LABS and OTHER ACTIVITIES
1. Topic Review Questions at the end of the chapter: Chapter 1 Perioperative Evaluation and Management of Surgical Patients
2. On-Line Review Questions

Coagulation and Transfusion
Chapter 4 (L) Surgical Bleeding: Bleeding Disorders, Hypercoagulable States, and Replacement Therapy in the Surgical Patient

Lawrence, Chapter 4, Surgical Bleeding, Hypercoagulable States, Replacement Therapy

SPECIFIC 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.
5. Topic Review Questions at the end of the chapter: Chapter 4, Surgical Bleeding: Bleeding Disorders, Hypercoagulable States, and Replacement Therapy in the Surgical Patient
6. On-Line Review Questions

Shock
Chapter 5 (L) Surgery Critical Care

Lawrence, Chapter 5, Surgery Critical Care

SPECIFIC LEARNING OBJECTIVES
1. Describe the primary mechanisms of shock and their etiology.
2. Discuss the evaluation and treatment of the primary mechanisms of shock.

BASIC SCIENCE LINKS
1. Physiology
OPC SKILLS REVIEW
1. Vital Skills

Wounds and Wound Healing
Chapter 7 (L) Wound Healing
Lawrence, Chapter 7, Wound Healing
https://clerkship-lwwhealthlibrary-
com.proxy2.cl.msu.edu/content.aspx?sectionid=205017749&bookid=2553&rotationId=0

SPECIFIC LEARNING OBJECTIVES
1. Discuss the process of wound healing
2. Distinguish between the types and treatments of skin ulcers.
3. Compare and contrast the various types of suture material and their advantages and disadvantages.
4. Compare and contrast the various types of local anesthetics and their dosages.
5. Discuss the process of wound healing.

BASIC SCIENCE LINKS
1. Histology/Physiology
2. Antibiotic Therapy

Surgical Infections
Chapter 8 (L) Surgical Infections
Lawrence, Chapter 8, Surgical Infections
https://clerkship-lwwhealthlibrary-
com.proxy2.cl.msu.edu/content.aspx?sectionid=205017825&bookid=2553&rotationId=0

SPECIFIC LEARNING OBJECTIVES
1. Analyze the difference between prophylactic use and the treatment of infection.
2. Discuss the bacteriology of common surgical infections.

BASIC SCIENCE LINKS
1. Microbiology
2. Pharmacology

Trauma
Chapter 9 (L) Trauma
Lawrence, Chapter 9, Trauma
https://clerkship-lwwhealthlibrary-
com.proxy2.cl.msu.edu/content.aspx?sectionid=205017935&bookid=2553&rotationId=0

SPECIFIC LEARNING OBJECTIVES
1. Rank the steps and priorities of evaluating a patient with multiple injuries.
2. Discuss the Glasgow Coma Scale.

OPC SKILLS REVIEW
1. Physical Exam

**Burns**

**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=205018446&bookid=2553&rotationId=0

SPECIFIC 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 of inhalation injury.

BASIC SCIENCE LINKS

1. Anatomy
2. Histology
3. Physiology

**Hernia**

**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

SPECIFIC LEARNING OBJECTIVES

1. Discuss the layers of the abdominal wall and assess how they pertain to abdominal wall hernias.
2. Distinguish between the various types of abdominal wall hernias and their repairs.

BASIC SCIENCE LINKS

1. Anatomy

OPC SKILLS REVIEW

1. Physical Examination

**Esophagus**

**Chapter 12 (L) Esophagus**

Lawrence, Chapter 12, Esophagus

https://clerkship-lwwhealthlibrary-com.proxy2.cl.msu.edu/content.aspx?sectionid=205018446&bookid=2553&rotationId=0

SPECIFIC LEARNING OBJECTIVES

1. Differentiate the anatomy and physiology of the esophagus relative to its functional disorders.
2. Compare and contrast between the different types and treatments of benign and malignant esophageal neoplasms.

BASIC SCIENCE LINKS
1. Anatomy
2. Physiology

**Peptic Ulcer Disease**

**Chapter 13 (L) Stomach and Duodenum**

*Lawrence, Chapter 13, Stomach and Duodenum*

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

SPECIFIC LEARNING OBJECTIVES

1. Discuss the physiology of gastric acid production.
2. Explain the various complications of peptic ulcer disease.

BASIC SCIENCE LINKS
1. Physiology
2. Histology

**Small Bowel and Appendix**

**Chapter 14 (L) Small Intestine and Appendix**

*Lawrence, Chapter 14, Small Intestine and Appendix*

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

SPECIFIC 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.

BASIC SCIENCE LINKS
1. Anatomy
2. Histology
3. Physiology

OPC SKILLS REVIEW
1. Abdominal Exam

Colon and Rectum

Chapter 15 (L) Colon, Rectum and Anus

Lawrence, Chapter 15, Colon, Rectum, Anus

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

SPECIFIC 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 possible 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.

BASIC SCIENCE LINKS

1. Anatomy
2. Microbiology
3. Histology
4. Physiology

Gall Bladder

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

SPECIFIC 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 possible complications.

BASIC SCIENCE LINKS

1. Microbiology
2. Physiology
Pancreas
Chapter 17 (L) Pancreas

Lawrence, Chapter 17, Pancreas

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

SPECIFIC 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.

BASIC SCIENCE LINKS

1. Physiology
2. Anatomy
3. Histology

Liver
Chapter 20 (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

SPECIFIC 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 various types of hepatitis.
4. Discuss the difference in presentation of primary and metastatic liver cancer.

BASIC SCIENCE LINKS

1. Histology

SPECIFIC LEARNING OBJECTIVES for Spleen

1. Discuss the examination of the spleen.
2. Discuss etiology and treatment of splenomegaly.
3. Discuss the effect of spleenectomy on the immune status of children and adults.
BASIC SCIENCE LINKS

1. Anatomy

OPC SKILLS REVIEW

1. Abdominal Exam

Breast Tumors

Chapter 18 (L) Breast
Lawrence, Chapter 18, Breast

https://clerkship-lwwhealthlibrary-com.proxy2.cl.msu.edu/content.aspx?sectionid=205019768&bookid=2553&rotationId=0

SPECIFIC LEARNING OBJECTIVES

1. Categorize the more common forms of benign and malignant breast disease.
2. Demonstrate the evaluation of a breast mass.
3. Discuss the staging of breast cancer and the signs of advanced disease.

BASIC SCIENCE LINKS

1. Histology

OPC SKILLS REVIEW

1. Breast Exam

Surgical Endocrinology

Chapter 19 (L) Surgical Endocrinology
Lawrence, Chapter 19, Surgical Endocrinology

https://clerkship-lwwhealthlibrary-com.proxy2.cl.msu.edu/content.aspx?sectionid=205019768&bookid=2553&rotationId=0

SPECIFIC 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.

OPC SKILLS REVIEW

1. Thyroid Exam

Skin Cancer

Chapter 22 (L) Surgical Oncology: Malignancy of the Skin and Soft Tissue
Lawrence, Chapter 22, Surgical Oncology, Malignancy skin, Soft Tissue
SPECIFIC LEARNING OBJECTIVES
2. Discuss the presentation and treatment of the three most common skin cancers.
3. Discuss the staging of malignant melanoma.

BASIC SCIENCE LINKS
1. Histology

OPC SKILLS REVIEW
1. Physical Exam

COMPETENCIES
1. Osteopathic Principles and Practices
2. Medical Knowledge
3. Patient Care
4. Interpersonal and Communication Skills
5. Professionalism
6. Practice-Based Learning and Improvement
7. Systems Based Practice

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)
https://d2l.msu.edu

SUGGESTED STUDY RESOURCES
1. MSU Library reference website for Surgery
https://libguides.lib.msu.edu/c.php?g=95640&p=624451#s-lg-box-wrapper-18866913

   - Available at: https://clerkship-lwwhealthlibrary-com.proxy2.cl.msu.edu/book.aspx?bookid=2553&rotationId=0
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.

3. Townsend CM, Beauchamp RD, Evers BM, Mattox KL. *Sabiton Textbook of Surgery*, 21e. St. Louis; Elsevier; 2022
   - Available at: https://www-clinicalkey-com.proxy2.cl.msu.edu/#/browse/book/3-s2.0-C20170043124?indexOverride=GLOBAL

Many other excellent texts are available although some, such as Sebastian’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/.

4. “Access Surgery” https://accessssurgery-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”.

**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.**

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=q&device=c&adposition=1t2&keyword=%2Busmle&utm_eff ort=GG0001&gclid=EAIaIQobChMls9nX1fCH4wLVlrICh07owwfEAAYAiAAEgIM2vD_BwE

American Surgical Education, Manual of Surgical Objectives
http://www.nbome.org/docs/surgicalobjectives.pdf

Additional resources at: http://libguides.lib.msu.edu/medicalebooks
### ROTATION REQUIREMENTS

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<tr>
<th>REQUIREMENT</th>
<th>SUBMISSION METHOD</th>
<th>DUE DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMAT</td>
<td>COM Clerkship will email students to register for the exam</td>
<td>Last Friday of the rotation ≥ 90 to Pass and ≥ 110 to receive *Honors</td>
</tr>
<tr>
<td></td>
<td>*Honors-you must meet ALL the requirements</td>
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</tr>
<tr>
<td>Pre-Rotation Quiz</td>
<td>Submit via D2L</td>
<td>Completed by 11:59pm the first Sunday of the rotation</td>
</tr>
<tr>
<td>Post-Rotation Quiz</td>
<td>Not mandatory for grade</td>
<td>Not mandatory for grade</td>
</tr>
<tr>
<td>Aquifer Cases</td>
<td>Submit Word Doc Copy into Student Exp. Log via D2L</td>
<td>Completed by 11:59pm last day of rotation</td>
</tr>
<tr>
<td>Student Experience Log (Mid Rotation Evaluation)</td>
<td>Submit via D2L</td>
<td>*Honors=Last Friday of the rotation @11:59pm</td>
</tr>
<tr>
<td></td>
<td>*Honors-you must meet ALL the requirements</td>
<td>Pass= Last Day of the rotation @ 11:59pm</td>
</tr>
<tr>
<td>Interprofessional Education</td>
<td>Submit via D2L</td>
<td>*Honors=Last Friday of the rotation @11:59pm</td>
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<tr>
<td></td>
<td>*Honors-you must meet ALL the requirements</td>
<td>Pass= Last Day of the rotation @ 11:59pm</td>
</tr>
<tr>
<td>Attending Evaluation of Clerkship Student</td>
<td>Can be accessed via the “Attending Evaluation” link in Kobiljak online schedule.</td>
<td>Last Day of Rotation</td>
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<tr>
<td></td>
<td>Email completed evaluation to <a href="mailto:COM.Clerkship@msu.edu">COM.Clerkship@msu.edu</a></td>
<td></td>
</tr>
<tr>
<td>Student Evaluation of Clerkship Rotation</td>
<td>Can be accessed via the “Student Evaluation” link in Kobiljak online schedule.</td>
<td>Last Day of Rotation</td>
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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. The form is found at the end of the syllabus.

AQUIFER – REQUIRED

You will be using a new website as a learning tool during this rotation. You will need to log into the website using your MSU email and you can create your own password.

Go to: 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 – at next screen click on LAUNCH WISE-MD

You will see: CASE MODULES SKILL MODULES TOOLS: (Question Progress Report)

Below are listed 22 Case 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.

The Tools section has a button that reads: Question Progress Report. Once you have completed the required Wise-MD Surgery Module section you will review the QP Report and copy and paste it into your Student Experience Log in D2L. I will be reviewing that each student has completed this requirement.

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! Read pages 4-12 in Core General Surgery Specific Objectives!

<table>
<thead>
<tr>
<th>CASE MODULES</th>
<th>SKILL MODULES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appendicitis</td>
<td>Abd. Aortic Aneurysms</td>
</tr>
<tr>
<td>Colon Cancer</td>
<td>Adrenal Adenoma</td>
</tr>
<tr>
<td>Anorectal Disease</td>
<td>Ped. Pyloric Stenosis</td>
</tr>
<tr>
<td>Bowel Obstruction</td>
<td>Carotid Stenosis</td>
</tr>
<tr>
<td>Bariatric</td>
<td>Venous Thromboembolism</td>
</tr>
<tr>
<td>Cholecystitis</td>
<td>Diverticulitis</td>
</tr>
<tr>
<td>Pancreatitis</td>
<td>Hypercalcemia</td>
</tr>
<tr>
<td>Breast Cancer</td>
<td>Lung Cancer</td>
</tr>
<tr>
<td>Pediatric Hernia</td>
<td>Trauma Resuscitation</td>
</tr>
<tr>
<td>Inguinal Hernia</td>
<td>Ultrasound of the Adb. Aortic Aneurysm</td>
</tr>
<tr>
<td>Thyroid Nodule</td>
<td>Trauma Resuscitation</td>
</tr>
<tr>
<td>Skin Cancer</td>
<td>Surgical Instruments / Foley Cath Placement</td>
</tr>
<tr>
<td>Burn Management</td>
<td>Epidural Placement Technique</td>
</tr>
</tbody>
</table>
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 1st 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 middle column and click Access Surgery, start over with a new case and repeat instructions.

**Saving work:** After you complete 10 cases, copy, and paste in Word Doc the My Review Questions page into download for D2L STUDENT EXPERIENCE LOG.

COMAT EXAM
**DUE DATE:** The last Friday of the Rotation
For information on exam registration and administration, please email the COM Clerkship Team at COM.Clerkship@msu.edu.
If a student requires an 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 s/he intends to use for the exam 7 days in advance of the COMAT examination date.

If you need to retake your COMAT, you will need to schedule in your next open slot on your calendar, please contact the COM Clerkship Team at [COM.clerkship@msu.edu](mailto:COM.clerkship@msu.edu) for more details.

**Grading**

- **Honors:** You will need to score at or above 110 on your first attempt on the exam. In addition to the other Honors Requirements being met.
- **Pass:** You will need to score at or above 90 on your first or second attempt on the exam. In addition to the other Pass requirements met. If you fail the exam, see corrective action section.
- **ET:** Will be the conditional grade given until all of the requirements of this rotation are met.
- **N:** Not taking or passing the COMAT Exam by the due date.

**Corrective Action**

- It is your responsibility to contact the Course Assistant, Shawn Olds at 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 within 24 hours of an emergency that will keep you from taking the exam the last Friday of the rotation, in order for consideration of delaying the exam.
- It is your responsibility to take the exam 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 an 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.
- 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.

**ZOOM SESSIONS**

Twice a month we will have zoom calls for the whole class. It is mandatory for anyone that is doing this rotation virtually. If you are in the hospital - it is not mandatory but highly suggested! We will go over cases, COMAT study tips, experience an open setting to ask a variety of questions and get feedback from your Instructor of Record. Be ready to discuss an interesting case you have seen.

The link for the zooms will be sent out the day before and the dates will be posted on the D2L Welcome page. If you have any questions, please email: Shawn Olds oldss@msu.edu
ROTATION EVALUATIONS

Attending Evaluation of Student
Students are responsible for assuring that his/her clinical supervisor receives the appropriate evaluation form. Forms can be accessed via the “Attending Evaluation” link in the student’s Kobiljak online Clerkship schedule.

Students should actively seek feedback on his/her performance throughout the course of the clinical rotation. Students should also sit down and discuss the formal evaluation with the clinical supervisor.

Students should keep a copy of the evaluation and leave the original with the Medical Education Office at the clinical training site where that office will review, sign, and forward the completed form to the COM Clerkship Team. Any evidence of tampering or modification while in the possession of the student will be considered “unprofessional behavior” and will be referred to the MSUCOM Spartan Committee Clearinghouse for resolution, per MSUCOM’s Common Ground Framework for Professional Conduct or to the Committee on Student Evaluation (COSE).

Grades are held until all rotation requirements, including evaluation forms, are received. Be sure you are using the correct form.

Student Evaluation of Clerkship Rotation
Students will submit their rotation evaluations electronically at the conclusion of every rotation by accessing their online evaluation system at:

http://hit-filemakerwb.hc.msu.edu/Clerkship/login_student.html

Unsatisfactory Clinical Performance
The Instructor of Record and/or the Assistant Dean for Clerkship Education will review/investigate a student’s performance on a rotation when a concern is raised by the supervisor(s), and 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.

Professionalism concerns, as well as accolades, will also be referred to the Instructor of Record for review and decision on how to move forward.

CORRECTIVE ACTION PROCESS
If a student does not successfully complete the rotation requirements of the course, the student will receive an ET 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 and Post-rotation quizzes:
   - 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 Corrective Action email sent by the Course Assistant.
   - The student will be required to take the post rotation quiz in addition to the pre rotation quiz. It will be reopened for one week; dates and times will be outlined in Corrective Action email sent by the Course Assistant.

2. Student Experience Log 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 Student Experience Log and upload to D2L.

3. Inter Professional 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.

4. 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 the Student Experience section.

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

Please note that while it is the responsibility of the student to ensure the Attending Evaluation of the Clerkship Student is completed, this requirement may extend beyond the corrective action date. Additionally, in the event of a COMAT failure on first attempt, the corrective action for the repeat COMAT may extend beyond 14 days.

As determined by the Instructor of Record, 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.

If a student successfully completes the Corrective Action process, as determined by the Instructor of Record, the student will receive credit for the deficient academic grading requirement(s) and be eligible for a rotation grade change from ET to Pass (pending the Attending Evaluation of the Clerkship Student and COMAT score).

BASE HOSPITAL REQUIREMENTS
Students are responsible for completing all additional requirements set by the hospital/clinical site in which the student is completing the rotation. Students are not responsible for reporting results of requirements outside the ones listed above to the college.

VIRTUAL ROTATION
If a student has been given the approval from the COM Medical Education Office 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

STUDENT RESPONSIBILITIES AND EXPECTATIONS
STUDENT ATTIRE AND ETIQUETTE

Medical students are to wear clean, white, short lab coats during the clerkship unless otherwise instructed. An identification tag, which is furnished by the community campus, must be worn at all times. As a student, you will come in close contact with patients, physicians, peers, and other health care professionals each day; good personal hygiene must be practiced. It should also be noted, that although the college does not have a “dress code,” tennis shoes, open-toed shoes, low-cut or midriff blouses, miniskirts and jeans are not considered appropriate attire for hospital/office/clinic settings including lectures.

Medical students should introduce themselves to patients and other health care professionals as a medical student, not as a physician or student doctor. This is important so that individuals do not assume that students have more responsibility or authority concerning patient care than that of a medical student. Patients should be addressed using their last names. Students should remember that, in the clinical setting, they are a reflection of Michigan State University and the College.
ATTENDANCE POLICY

OVERVIEW
Michigan State University College of Osteopathic Medicine (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 vacations already appearing in schedules and should only request 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 these requirements according to the respective course syllabus.

GENERAL POLICY

- All absences from rotations must be **excused absences** obtained by completing the *Clerkship Program Excused Absence Request Form*.
  - Appropriate signatures must be obtained from both the attending physician and the student coordinator at the rotation site.
  - MSUCOM Assistant Dean for Clerkship Education must approve absences for prolonged illnesses, bereavement, research presentations/conferences, or absences exceeding the maximum time off any one rotation.
  - Once appropriate approval signatures are obtained, forms should be maintained for your records in the event they are requested or required at a later date.

- **Unexcused absences** are absences taken without the proper completion of the *Clerkship Program Excused Absence Request Form*, or absences outside of those listed 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).

<table>
<thead>
<tr>
<th>Length of rotation</th>
<th>Maximum number of days off</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 weeks</td>
<td>2 days</td>
</tr>
<tr>
<td>2 weeks</td>
<td>0 days</td>
</tr>
</tbody>
</table>

Should an absence exceed these limits, the student is responsible for requesting additional days from the Assistant Dean for Clerkship Education via email (com.clerkship@msu.edu) prior to the absence.

**Exception for residency interviews from October to January in Year 4 only**

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 during Year 4 for interview purposes only. If interview absences exceed these totals, the student must request additional days off from the MSUCOM Instructor of Record (IOR) for the course/rotation by submitting a *Clerkship Program Excused Absence Request Form* to the Course Assistant (CA). Contact information for the IOR and CA are found on the first page of the respective MSUCOM course syllabus.
<table>
<thead>
<tr>
<th>Absence Type</th>
<th>Qualifications</th>
<th>Maximum number of days off</th>
<th>Details</th>
<th>Required Approval from Assistant Dean for Clerkship Education</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personal Day</td>
<td>Illness Medical/Dental appointments Wedding, family graduations (additional reasons must be discussed with the Asst Dean for Clerkship Education prior to request)</td>
<td>5 total days per year (individual events must comply with the max of 2 days off any 4-week rotation)</td>
<td>Vacations must be planned during allotted vacation time in schedule. Vacations are not acceptable personal day absences.</td>
<td>No</td>
</tr>
<tr>
<td>Jury Duty</td>
<td>Court documentation must accompany the Clerkship Program Absence Request Form.</td>
<td>N/A</td>
<td>Jury duty, when obligated, is not considered a personal day absence.</td>
<td>Yes</td>
</tr>
<tr>
<td>Hospital-organized community events</td>
<td>Example: Special Olympic Physicals</td>
<td>N/A</td>
<td>These events would be considered part of the rotation and not a personal day absence.</td>
<td>No</td>
</tr>
<tr>
<td>Examination</td>
<td>COMLEX USA Level 2 CE/USMLE Step 2 CK/Canadian MCCEE</td>
<td>1 day</td>
<td>Students should be reporting to rotation before/after examination</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>COMAT/NBME shelf examinations</td>
<td>Time required to complete exam</td>
<td>While on required/core rotations, no excused absences for any professional meeting will be allowed unless the student is presenting research in which they have participated. Required for request to Asst Dean for Clerkship Education; conference agenda, location, date of presentation, invitation, or confirmation of presentation by conference staff, proposed dates of absence.</td>
<td>Yes</td>
</tr>
<tr>
<td>Conference/Research Presentation</td>
<td>Research presentation on core rotation</td>
<td>Travel and presentation time only</td>
<td>Student must submit Clerkship Program Excused Absence Request Form and copy of conference agenda to the Assistant Dean for Clerkship Education to attend one (1) professional meeting on a 4-week rotation. Students cannot miss rotation days for a conference during a 2-week elective rotation.</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Conference or research presentation while on an elective rotation</td>
<td>3 days on a 4-week elective rotation</td>
<td>Students-contact the Assistant Dean for Clerkship Education to discuss time off rotations</td>
<td>Yes</td>
</tr>
<tr>
<td>Prolonged Illness, Bereavement, Maternity Leave</td>
<td>Medical related absence or bereavement</td>
<td>TBD</td>
<td>Students-contact the Assistant Dean for Clerkship Education to discuss time off rotations</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*Clerkship Program Excused Absence Request Forms* - Once appropriate approval signatures are obtained; forms should be maintained for your records in the event they are requested or required at a later date.
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 and 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 progresses through the curriculum, with the supervising physicians providing the medical student the 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 factors, but not limited to:

- 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 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.
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 is 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.

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.

STUDENT 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 relationship between faculty and student 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.

STUDENT RESPONSIBILITIES REGARDING PATIENT SUPERVISION

All medical procedures performed by medical students must be supervised by a licensed physician responsible for the care of the patient. Before starting any procedure, the medical student must be told to do the procedure on the patient by a physician responsible for the care of this patient. The supervising physician and the student share the responsibility for determining the level of supervision needed: either direct supervision (i.e., an appropriate supervisor is present while the procedure is being performed) or indirect supervision (i.e., an appropriate supervisor can be called into the room within a time span appropriate for that procedure).

It is understood that a complete list of procedures that a medical student may perform is neither possible nor desirable to establish, but these general guidelines should be followed:

1. Appropriate informed consent must be obtained and documented. No procedure should be attempted by the medical student unless s/he is given permission to do so by a physician responsible for the patient.
2. If a student does not feel capable, then s/he must not undertake performance of the procedure without further instruction and direct supervision.
3. If the student is not known by the patient, it's the student's responsibility to properly introduce her/himself to the patient.

4. If the medical student is not successful in the performance of a procedure within the reasonable amount of time or without undue discomfort to the patient, the medical student must withdraw and notify the supervising physician.

5. It is the responsibility of the medical student to cease and desist from the performance of any procedure at the direction of any nurse responsible for that patient, if that nurse has reasonable cause to ask the student to cease and desist. The supervising physician should be notified promptly of any such action.

**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.

**FACULTY RESPONSIBILITIES**

It is the responsibility of the clinical faculty to provide students with ongoing feedback during rotation upon request. Clinical faculty are generally recommended (though not required) to limit student assigned duty hours from 40 to 60 hours weekly (and not exceeding 60 hours). Both faculty and students are to be treated fairly and professionally to maintain a proper working relationship between trainer and trainee.

**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.

**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.

**ET/Extended Grade** – means that a final grade (‘Pass’ or ‘No Grade’) cannot be determined due to one or more missing course requirements. The ET grade 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 ‘ET’ grade will NOT remain on a student’s transcript. ET grades should be rectified within six months or less.

**H/Honors** – A grade of honors will be possible to students demonstrating outstanding clinical, professional performance AND achieving 110 or higher on the COMAT. Criteria for achieving honors in a core rotation will be listed in the course syllabi. While the Honors
designation will be awarded to students meeting the criteria in the syllabi of the above course, 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 students Medical Student Performance Evaluation will reflect each Honors grade.

**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 may be found on the Clerkship Medical Education page of the MSUCOM website [here](https://com.msu.edu/current-students/clerkship-medical-education).

**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](http://www.rcpd.msu.edu) Once a student’s eligibility for (clinical and/or testing) accommodation has been determined, the student may be issued a **Verified Individualized Services and Accommodations** (VISA) form. Students must present this VISA form to the Clerkship Team (COM.Clerkship@msu.edu), A-332 East Fee Hall, at the start of the semester which they intend to use their accommodations (for tests, projects, labs, etc.). Accommodation requests received after this date will be honored whenever possible.

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

**STUDENT EXPERIENCE LOG**
Students are required to complete one Student Experience Log per Core Rotation in Surgery. Please complete the following worksheet based on your time on the Surgery rotation once completed please submit to the Dropbox on D2L. Form found at the end of the syllabus.
Inter Professional Education

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 to the drop box on D2L.

<table>
<thead>
<tr>
<th>Obstetrics/Gynecology</th>
<th>Surgery</th>
<th>Anesthesiology</th>
</tr>
</thead>
</table>

Your 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
   Other(s)

   Did everyone in attendance participate in the timeout?  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?
On this rotation you are required to encounter the below clinical presentations, if your rotation should not permit the following, you are required to gain the knowledge via modules/readings per syllabus. Place a checkmark where appropriate.

<table>
<thead>
<tr>
<th>Clinical Presentation</th>
<th>Experience via patient on rotation</th>
<th>Experience gained via readings/ modules. (per syllabus)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Abdomen</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fluids and electrolytes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nutritional support</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Postoperative complications</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Burns</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coagulation and transfusion</td>
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<tr>
<td>Hernia</td>
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<tr>
<td>Esophageal disorders</td>
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<tr>
<td>Peptic ulcer disease</td>
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<tr>
<td>Small bowel and appendicular disorders</td>
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<tr>
<td>Colorectal disease</td>
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<td>Gall bladder disease</td>
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<td>Pancreas disorders</td>
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<tr>
<td>Hepatobiliary disorders</td>
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<tr>
<td>Breast tumors</td>
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<tr>
<td>Surgical endocrinology</td>
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<tr>
<td>Splenic disorders</td>
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<tr>
<td>Skin cancers</td>
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<tr>
<td>Perform physical exam of acute abdomen</td>
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<tr>
<td>Suture/Staple skin incision</td>
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<tr>
<td>Peripheral IV insertion</td>
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<tr>
<td>Nasogastric Tube insertion</td>
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<tr>
<td>Foley Catheter insertion</td>
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<tr>
<td>Patient teaching (incentive spirometry, drain care, etc.)</td>
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</tr>
</tbody>
</table>

**WELLNESS**: An active process of becoming aware of and making choices toward a healthy and fulfilling life.

Have you set one personal wellness goal you would like to accomplish during this rotation?

Did you accomplish this goal by the end of the rotation?

I participated in interprofessional collaboration (collaboration on patient care with health care workers of different professional backgrounds) on this rotation - yes   no   (circle one)
OMM – In reference to the OPP Objectives briefly describe how you used OMM on one patient during this rotation:

_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________

Comments:
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________

Students are required to complete the student experience logs and submit them via D2L drop box by 11:59pm on the last day of the rotation. Honors due date- Last Friday of the rotation by 11:59pm.

Attending Signature: (Verifying content of log)

_____________________________________________________________________________________

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## SUMMARY OF GRADING REQUIREMENTS

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Honors Designation (Student must meet all below)</th>
<th>Pass (Student must meet all below)</th>
<th>Extended Grade</th>
<th>No Pass (No Pass grade if student obtains any one of the below)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Rotation Quiz</td>
<td>Completed by 11:59 pm the first Sunday of the Rotation</td>
<td>Completed by 11:59 pm the last day (Sunday) of the Rotation</td>
<td>Will be the conditional grade until all requirements of this rotation are met</td>
<td>Failure to complete the quiz and the corrective action.</td>
</tr>
<tr>
<td>Post-Rotation Quiz</td>
<td>Not mandatory for grade</td>
<td>Not mandatory for grade</td>
<td>Not mandatory for grade</td>
<td>Not mandatory for grade</td>
</tr>
<tr>
<td>Aquifer</td>
<td>Completed 100% and uploaded by 11:59 pm the last Friday of the rotation</td>
<td>Completed 100% and uploaded by 11:59 pm the last day of the rotation</td>
<td>Will be the conditional grade until all requirements of this rotation are met</td>
<td>Failure to complete and upload within two weeks after the rotation ends</td>
</tr>
<tr>
<td>Student Experience Log</td>
<td>Completed 100% and uploaded by 11:59 pm the last Friday of the rotation</td>
<td>Completed 100% and uploaded by 11:59 pm the last day of the rotation</td>
<td>Will be the conditional grade until all requirements of this rotation are met</td>
<td>Failure to complete and upload within two weeks after the rotation ends</td>
</tr>
<tr>
<td>Inter Professional Education</td>
<td>Completed 100% and uploaded by 11:59 pm the last Friday of the rotation</td>
<td>Completed 100% and uploaded by 11:59 pm the last day of the rotation</td>
<td>Will be the conditional grade until all requirements of this rotation are met</td>
<td>Failure to complete and upload within two weeks after the rotation ends</td>
</tr>
<tr>
<td>COMAT Exam</td>
<td>Score at or above 110 on the first attempt you take the exam</td>
<td>Score at or above 90 the first attempt of the exam. Score at or above 90 the day you retake the exam. If you fail to take your exam the last Friday of the Rotation, you will receive a zero and have one chance to retake the exam.</td>
<td>Will be the conditional grade until all requirements of this rotation are met</td>
<td>Failure to pass the exam with two attempts Failure to not take the retake in the time given Failure to take the exam the first time offered and not pass the exam on your second (due to the first attempt being a (zero) attempt</td>
</tr>
<tr>
<td>Student Evaluation of Clerkship Rotation</td>
<td>Completed 100% and uploaded by 11:59 pm the last day of the rotation</td>
<td>Completed 100% and uploaded by 11:59 pm the last day (Sunday) of the rotation</td>
<td>Will be the conditional grade until all requirements of this rotation are met</td>
<td>Failure to complete and upload within two weeks after the rotation ends</td>
</tr>
<tr>
<td>Attending Evaluation of Clerkship Student</td>
<td>Student must receive all Meets Expectations or above in the subcategories and Meets or Exceeds Expectations in the overall category</td>
<td>Students may receive up to 1 Below Expectations mark in any subcategory with the overall categories at Meets or Exceeds Expectations</td>
<td>Will be the conditional grade until all requirements of this rotation are met</td>
<td>Receives two or more “Below Expectations” in any subsection on the evaluation Displays indicators of marginal performance on any clerkship rotation</td>
</tr>
</tbody>
</table>