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
Welcome to IM 650 Core Internal Medicine In-Patient Clerkship, which is one of two or three Core Internal Medicine (IM) rotations you will complete successfully during the course of your clerkship years. Our internal medicine team has collaborated to offer selected topics in IM for your study through a series of three required clerkship rotations - IM 650 (inpatient IM rotation #1, IM 658 or FCM 622 (Out-patient IM #1 or 2nd Out-Patient FCM) and IM 660 (sub-internship inpatient IM #2). IM 650 must occur before IM 660 and is highly recommended, but not essential that IM 658 or FCM 622 occur before IM 660. IM 660 should ideally be completed after IM 650 and 658 (or FCM 622), and it should ideally NOT occur prior to the 4th month of the third year to allow adequate exposure to inpatient medicine for the medical student. It is intended to be an advanced rotation with higher expectations of the student for performance. Preferably, it should be scheduled after C3 and all R2 core rotations are completed. Students may take FCM 622 in place of IM 658.

We believe these topics are the most common ailments affecting our U.S. population. If you put the time and effort into studying these modules you will be well prepared for internship, residency, and national tests you will take such as COMAT and COMLEX. It is also our hope that you will recognize the integral role of Internal Medicine, for it is a cognitively rewarding discipline for which there will always be a need.

ROTATION FORMAT
The instructional modules for the inpatient IM rotation are created to showcase a typical day for an Internist in the hospital. You will be assigned 4 modules during your four-week IM rotation. Each module is under 60 minutes. It is recommended that you complete review of the modules the weekend before your rotation starts. Quizzes should be taken towards the end of the rotation by the deadline date listed below.

GOALS AND OBJECTIVES

GOALS
The general goal of clerkship is to provide the environment needed for students to develop into knowledgeable, sympathetic, and sophisticated physicians. Additionally, it seeks to ensure that each student is able to work up a patient, to develop differential diagnosis, to formulate a treatment plan, and to consider an approach to managing the patient. Further, our aim is to teach students to apply the background in pathophysiology acquired in the pre-clinical years to the diagnosis and management of patients. Lastly, it is expected that students continue to expand their knowledge base and clinical judgment.

The following is an outline of the knowledge, skills, and behavior students should possess upon completion of the clerkship:

1. **HISTORY TAKING: Obtain an accurate, efficient, appropriate, and thorough history.**
   This clerkship will emphasize the development of intermediate level history taking skills. It will emphasize strategies and skills for the efficient elicitation of histories appropriate to the care of adult patients presenting with medical problems in the inpatient settings. Particular attention will be given to identification and elicitation of key historical data pertinent to immediate clinical decision-making.

2. **PHYSICAL EXAM: Perform and interpret findings of a complete and organ-specific exam.**
   This clerkship will focus on development of intermediate-to-advanced physical examination skills (especially in the areas of cardiovascular, pulmonary, musculoskeletal, nephrology and gastrointestinal diseases) pertinent to the clinical evaluation of adults presenting with medical problems in the inpatient setting.
settings. It will emphasize elicitation of physical findings pertinent to differential diagnosis and immediate clinical decision-making.

3. **DIAGNOSTIC EVALUATION:** Interpret data from laboratories and radiology demonstrating knowledge of pathophysiology and evidence from the literature.
   This clerkship will emphasize interpretation of basic tests used in the evaluation of adult medical patients presenting with medical problems in an inpatient setting. Principles of clinical epidemiology will be used to facilitate test interpretation, especially as they relate to determination of post-test probabilities and contribution of test results to differential diagnosis.

4. **DIAGNOSIS:** Articulate a cogent, prioritized differential diagnosis based on initial history and exam.
   A prime learning objective of this clerkship will be the formulation of a prioritized initial differential diagnosis based on the history and physical examination for common medical problems of adult patients presenting in inpatient settings. Differential diagnosis of common systemic, cardiac, pulmonary, gastrointestinal, renal, endocrine, metabolic, rheumatologic, neoplastic, and infectious disease problems will receive particular emphasis.

5. **DIAGNOSIS II:** Students are expected to design a diagnostic strategy to narrow an initial differential diagnosis demonstrating knowledge of pathophysiology and evidence from literature.
   Another priority learning objective for this clerkship will be formulation of a diagnostic strategy, emphasizing use of the principles of clinical epidemiology (test sensitivity, specificity, pretest probability, predictive value) and cost effectiveness data to guide test selection and interpretation.

6. **MANAGEMENT:** Design a management strategy for life threatening, acute, and chronic conditions demonstrating knowledge of pathophysiology and evidence from the literature.
   This IM rotation will focus on basic management of the common medical problems of adults presenting to inpatient settings, with reference to the relevant pathophysiology and best scientific evidence.

7. **PROCEDURES:** Perform routine technical procedures.
   Students will be taught the basic procedures used in inpatient care of adult medical patients, including procedure indications, contraindications, techniques, complications, and interpretation of any findings that result. Examples of procedures include: Evaluate one patient with in-hospital fall, and be able to discuss the relevant evaluation, review for anticoagulant use and discuss the necessity of brain imaging with your supervising physician; assist with the insertion of one arterial line or central line; arterial blood gas results interpretation and suggested management of results to restore homeostasis; and attendance at one Rapid Response Team event or Code Blue (cardiac arrest in house event) with performance of CPR if allowed.

8. **COMMUNICATION:** Present patient information concisely, accurately and in timely fashion to members of a health care team in a variety of settings and formats including verbally and in writing.
This course will emphasize effective written and oral presentation of pertinent clinical information (including differential diagnosis, assessment, and plan) for the care of adult patient. Particular attention will be given to adapting the presentation to the issue at hand.

9. **CULTURAL COMPETENCE: Understand the disease with respect to the cultural, socioeconomic, gender and age-related context of the patient.**
   This IM rotation will stress how doctor-patient relationship is influenced by a variety of factors. Special emphasis will be placed on conducting patient interviews with sensitivity towards cultural differences as well as impact these may have on disease evaluation and management.

10. **PROFESSIONALISM:**
    This rotation will emphasize aspects of professionalism related to interaction with patient, colleagues, and staff. Examples of professional behavior include being on time and prepared for rounds and didactic sessions, putting patients’ needs first and willingness to assist your colleagues and staff, ability to self-assess, responsiveness to constructive criticism and time management skills.

    This clerkship will also stress skills relevant to taking initiative and responsibility for learning, achieving personal growth, and supporting learning objectives of your colleagues. Students are expected to learn how to perform appropriate literature search as well as understand the limitations of the literature base.

    Demonstrate knowledge and affirmation of ethical standards

11. **CAREERS IN MEDICINE: Is medicine your cup of tea?**
    This clerkship will highlight available career paths in internal medicine including primary care versus subspecialty training. It will also encourage students to find mentors as they prepare for future choices

**OBJECTIVES**
1. Provide the student with the fundamental knowledge base in internal medicine.
2. Introduce the student to basic procedures relevant to the practice of internal medicine.
3. Facilitate an understanding of the approach to acute care clinical problem solving.
4. Promote the acquisition of simple basic skills for the diagnosis and management of common internal medicine cases.
5. Encourage the continued development of the student’s professional attitude and behavior

**COMPETENCIES**
The Core Competencies were developed by the AOA to represent seven defined areas. In 2007, the American Association of Colleges of Osteopathic Medicine developed a document to assist colleges in integrating these same core competencies into medical education at the medical student level. The following core competencies are addressed during the month of Out-Patient Internal Medicine:

- **Osteopathic Principles and Practice**
  o Approach the patient with recognition of the entire clinical context, including mind body and psychosocial interrelationships
IM 650 Core Internal Medicine Inpatient Clerkship

- Diagnose clinical conditions and plan patient care
- Perform or recommend OMT as part of a treatment plan
- Communicate and document treatment details

• Medical Knowledge
  - Articulate basic biomedical science and epidemiological and clinical science principles related to patient presentation

• Patient Care
  - Gather accurate data related to the patient encounter
  - Develop a differential diagnosis appropriate to the context of the patient setting and findings
  - Form a patient-centered, inter-professional, evidence-based management plan
  - Health promotion and disease prevention (HPDP)
  - Documentation, case presentation, and team communication

• Interpersonal and Communication Skills
  - Establish and maintain the physician-patient relationship
  - Demonstrate effective written and electronic communication in dealing with patients and other health care professionals
  - Work effectively with other health professionals as a member or leader of a health care team

• Professionalism
  - Demonstrate humanistic behavior, including respect, compassion, honesty, and trustworthiness
  - Demonstrate accountability to patients, society, and the profession, including the duty to act in response to the knowledge of professional behavior of others
  - Attain milestones that indicate a commitment to excellence, as, for example, through ongoing professional development as evidence of a commitment to continuous learning

• Practice-Based Learning and Improvement
  - Describe the clinical significance of and apply strategies for integrating research evidence into clinical practice
  - Critically evaluate medical information and its sources, and apply such information appropriately to decisions relating to patient care

• Systems-Based Practice
  - Demonstrate understanding of how patient care and professional practices affect other health care professionals, health care organizations, and society
  - Identify and utilize effective strategies for assessing patient.
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, your specific course section may appear on the D2L landing page. Or you may find and pin the course to your homepage by typing the following text into Search for a course: Core Internal Medicine In-Patient Clerkship

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

1. **Access Medicine**
   Compendium of various medical books, questions, images, videos that apply to internal medicine. Infinitely helpful resources that allows you to search a topic over multiple different texts.
   Available at: https://accessmedicine-mhmedical-com.proxy1.cl.msu.edu/

2. **Harrison's Principles of Internal Medicine 20th edition**
   The bible of internal medicine. Long running book providing complex overview of topics that are applicable to every level of education. Can be overly complex when trying to quickly review a topic or answer clinical questions for a medical student.
   Available online at: https://accessmedicine-mhmedical-com.proxy1.cl.msu.edu/

3. **Goldman's Cecil Medicine 26th ed**
   Complete overview of Internal medicine. May be a bit easier to follow than Harrison’s.
   Available at: https://www-clinicalkey-com.proxy1.cl.msu.edu/#!/browse/book/3-s2.0-C20161036684

4. **Current Medical Diagnosis & Treatment 2021**
   Concise overviews of topics as well as approach to patient’s organized by system. The text focuses on practical application of knowledge and contains mixed media (videos, sound clips, etc.)
   Available at: https://accessmedicine-mhmedical-com.proxy1.cl.msu.edu/

5. **Symptom to Diagnosis: An Evidence-Based Guide, 4e**
   Case based topics that walk a resident or medical student through the basic approach, differential diagnosis, and work up of various symptoms or clinical conditions
   Available at: https://accessmedicine-mhmedical-com.proxy1.cl.msu.edu/

   Enhances differential diagnosis and approach to complaints
7. **Medical Secrets, 6th Edition**  
Bullet point and fact-based review by organ system  
Available at: [https://www-clinicalkey-com.proxy1.cl.msu.edu/#!/browse/book/3-s2.0-C20150022286](https://www-clinicalkey-com.proxy1.cl.msu.edu/#!/browse/book/3-s2.0-C20150022286)

8. **Textbook of Physical Diagnosis, 8th Edition**  
Review of physical exam skills  
Available at: [https://www-clinicalkey-com.proxy1.cl.msu.edu/#!/browse/book/3-s2.0-C20150066990](https://www-clinicalkey-com.proxy1.cl.msu.edu/#!/browse/book/3-s2.0-C20150066990)

9. **Dynamed Plus**  
Online bullet point review of various topics  
Available at: [https://lib.msu.edu/health/medicine/](https://lib.msu.edu/health/medicine/)

10. **The 5-minute clinical consult 2022**  
Alphabetized, quick bullet point review of topics focused on application of medical knowledge  

11. **BMJ Best Practices**  
Helpful resource with concise overviews of topics as well as various procedural videos  
Available at: [https://bestpractice-bmj-com.proxy1.cl.msu.edu/](https://bestpractice-bmj-com.proxy1.cl.msu.edu/)

12. **Board Vitals**  
Board question practice  
Available at: [https://libguides.lib.msu.edu/medicalboardexamprep/comlex](https://libguides.lib.msu.edu/medicalboardexamprep/comlex)

**SUGGESTED STUDY RESOURCES**

1. **Stat Pearls**  
[https://www.statpearls.com/](https://www.statpearls.com/)  
Quick overviews of topics with associated medical questions

2. **Online Med Ed**  
[https://onlinemeded.org/?track=2](https://onlinemeded.org/?track=2)  
Free lecture-based videos that are geared to improving board scores

3. **Merck Manuals**  
[https://www.merckmanuals.com/professional](https://www.merckmanuals.com/professional)  
Contains quick concise overviews of topics as well as a large catalog of procedural videos

4. **Helpful Review Journals (Available through ClinicalKey database)**  
- American Journal of Medicine  
- American Family Physician  
- Critical Care Clinics  
- Emergency Medicine Clinics of North America  
- Hospital Medicine
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- Lancet, The
- Medical Clinics of North America
- Medicine

**ROTATION REQUIREMENTS**

<table>
<thead>
<tr>
<th>REQUIREMENT</th>
<th>SUBMISSION METHOD</th>
<th>DUE DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transitions of Care</td>
<td>Completed in D2L</td>
<td>Day 14 at 11:59pm</td>
</tr>
<tr>
<td>Harrison's Questions Bank Quiz</td>
<td>Submitted into Dropbox in D2L</td>
<td>Last day of the rotation at 11:59pm</td>
</tr>
<tr>
<td>View the 4 modules online and take end of module Quiz after completing each module.</td>
<td>Completed In D2L</td>
<td>Completed 100% and uploaded by the last day of the rotation at 11:59pm</td>
</tr>
<tr>
<td>Student Daily Shift Schedule</td>
<td>Submitted into Dropbox in D2L</td>
<td>Last day of the rotation at 11:59pm</td>
</tr>
<tr>
<td>Mid Rotation Evaluation</td>
<td>Submitted into Dropbox in D2L</td>
<td>Completed 100% and uploaded the third Wednesday of the rotation by 11:59 pm</td>
</tr>
<tr>
<td>Attending Evaluation of Clerkship Student (Class of 2023)</td>
<td>Can be accessed via the “Attending Evaluation” link in Kobiljak online schedule. Email completed evaluation to <a href="mailto:COM.Clerkship@msu.edu">COM.Clerkship@msu.edu</a></td>
<td>Last Day of Rotation</td>
</tr>
<tr>
<td>Attending Evaluation of Clerkship Student (Class of 2024)</td>
<td>A student must verify that his/her attending physician is accurately reflected on his/her rotation schedule in Medtrics. At the rotation midpoint, students’ attendings will receive an automated email link connecting them to their assigned Attending Evaluation within Medtrics, where they may electronically access and submit the forms on behalf of their students</td>
<td>Last Day of Rotation</td>
</tr>
<tr>
<td>Student Evaluation of Clerkship Rotation (Class of 2023)</td>
<td>Can be accessed and submitted via the “Student Evaluation” link in Kobiljak online schedule</td>
<td>Last Day of Rotation</td>
</tr>
<tr>
<td>Student Evaluation of Clerkship Rotation (Class of 2024)</td>
<td>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</td>
<td>Last Day of Rotation</td>
</tr>
</tbody>
</table>
WEEKLY READINGS/OBJECTIVES/ASSIGNMENTS
During each of the 4 weeks of the internal medicine rotation the student will be responsible for reviewing all content pertaining to that week’s topics and completing the corresponding quizzes. The content is meant to be a complete overview of a topic, with up-to-date medical information, that would prepare a PGYI to present on that topic to an attending; while also providing a framework for patient evaluation, work up, and treatment. Overall, the activities are meant to sharpen the student’s understanding of that topic, how it is approached, and application of that knowledge in a hospital setting.

Week 1

Topics
1. Acute Coronary Syndrome
2. Approach to Anemia
3. Congestive Heart Failure

Specific Learning Objectives

Acute Coronary Syndrome
- Consistently explain pathophysiology of Coronary disease
- Recite the risk factors for coronary disease
- Provide a basic work up with laboratory and imaging for a chest pain patient
- Combine history, physical exam, EKG, and laboratory findings when meeting a new patient to decide if they are having an acute coronary syndrome
- Quickly identify a STEMI on EKG. STEMI= ST Elevated Myocardial Infarction
- Identify EKG changes of ischemia and apply these to risk stratification of a patient for coronary disease
- Reproduce the various branches of treatment for NSTEMI/UA into a treatment plan given various medications indications and contraindication. NSTEMI= Non-ST Elevated Myocardial Infarction; US=Unstable Angina
- Memorize and recite the timing and indication of reperfusion therapy for STEMI as well as being familiar with various contraindications

Approach to Anemia
- Recite at least 5 items on a differential diagnosis for anemia based on the size the red blood cell
- Systematically approach a workup for anemia based on a basic complete blood count, patient history and demographics
- Consistently utilize peripheral smear findings to refine differential diagnosis of anemia
- Provide at least 5 etiologies of anemia based on MCV
- Provide a workup for a patient to prove hemolysis
- Consistently decide on whether a patient needs a transfusion
Congestive Heart Failure

- Consistently diagnose an exacerbation of CHF on physical exam while being aided by lab work and imaging
- Use a focused history to tease out factors that lead to the exacerbation
- Interpret Echocardiogram report to grade the severity as well as the defect that has led to the CHF
- Recite the Acute treatment for pulmonary edema in CHF quickly
- Provide basic long-term treatment aimed at reducing vicious cycle in CHF under various clinical scenarios as it relates to medical indications and contraindications

Week 2

Topics

1. Acute Kidney Injury
2. Electrolyte disorders (K, Ca, Mg, Phos)
3. Sodium Disorder
4. Urinary Tract Infection

Specific Learning Objectives

Acute Kidney Injury

- Include AKI in a differential diagnosis based on various signs and symptoms
- Recognize AKI quickly and efficiently
- Stage the degree of AKI based on established baseline creatinine
- Recite the etiology of AKI (prerenal, post renal, intrinsic) from most common to least common
- Formulate a differential using initial lab work as well as physical exam and history to assist in patient care on rounds
- Provide a stepwise approach to work up and diagnosis to avoid unnecessary/costly workups
- Calculate a FeNa when it is helpful to order such testing
- Recognize possible warning signs of “zebras”
- Recommend treatment for AKI based on the etiology
- Recognize and recite the indications for dialysis emergently
- Recommend strategies to help prevent AKI

Electrolyte disorders (K, Ca, Mg, Phos)

- Identify the signs and symptoms of potassium disorders
- Recite the major components of the differential diagnosis of hypokalemia and hyperkalemia as it relates to the mechanism
- Provide treatment for hypokalemia by the most appropriate route
- Provide treatment for hyperkalemia under various clinical conditions in an immediate manor
- Recite and identify the electrocardiographic changes of hypo and hyperkalemia consistently
- Quickly correct serum calcium levels based on albumin in your head
- Explain hormonal regulation of calcium and connect this to forming a differential diagnosis for hyper and hypocalcemia
• Provide a workup to narrow down your differential diagnosis of hypercalcemia and hypocalcemia
• Recite the treatment for hypercalcemia while factoring in the severity of disease
• Apply the signs and symptoms of electrolyte disturbances to differential diagnosis of common presentations
• Identify EKG changes as they relate to electrolyte disturbances
• Consistently suggest quantity and route of replacement in routine electrolyte deficiencies

**Sodium Disorders**
• No longer be intimidated by differential diagnosis for hyponatremia/hypernatremia
• Recite all major disorders that lead to hyponatremia/hypernatremia based on a patient’s fluid status
• Pose a theory as to etiology of hyponatremia/ hypernatremia based on clinical presentation and basic labs
• Order and interpret labs to confirm etiology
• Provide basic treatment for hyponatremia/ hypernatremia

**Urinary Tract Infection**
• Consistently list the causative organisms responsible for UTI
• Accurately diagnosis a urinary tract infection given a urinalysis and a patient presentation
• Formulate an appropriate work up for a patient with UTI knowing the indications for different labs and imaging
• Identify situations that call for the need of a specialist
• Provide basic antimicrobial selection under various clinical scenarios
• Disposition a patient based on clinical indicators and presentation

**Week 3**

**Topics**

1. Asthma
2. Chronic Obstructive Pulmonary Disease
3. Community Acquired Pneumonia
4. Venous Thromboembolism

**Asthma**
• Consistently take a focused history about asthma when interviewing a patient
• Make a clinical diagnosis of asthma base on signs and symptoms
• Make a definitive diagnosis of asthma based on pulmonary function testing
• Grade severity of asthma based on symptoms as well as pulmonary function testing
• Provide a treatment plan for status asthmaticus
• Provide a treatment plan for asthma depending on severity
• Identify various asthma syndromes based on symptoms as well as provide treatment
• Consistently instruct patients on proper albuterol use
Chronic Obstructive Pulmonary Disease
- Apply the GOLD classification for COPD
- Suggest additional treatment for patients that are not controlled on an outpatient treatment regimen
- Quickly and consistently diagnose a patient with an exacerbation of COPD
- Recite differential diagnosis for wheezing as it relates to adults and children
  - Consistently take a history as it relates to COPD teasing out triggers for exacerbation
  - Suggest an initial work up for an exacerbation of COPD knowing why each test is ordered
  - Be able to quickly disposition a patient with an exacerbation of COPD based on various clinical indicators
  - Identify and suggest patients that are appropriate for discharge

Community Acquired Pneumonia
- Review the IDSA/ATS guidelines for CAP
- Review bacterial etiology under various clinical conditions
- Apply guidelines to site of care decisions
- Review the utility of testing and applying to different circumstances
  - Select appropriate antibiotics for CAP
  - Apply work up to “non-responders” for treatment decisions

Venous Thromboembolism
- Explain the pathophysiology that leads to VTE to a layman – VT=Venous Thromboembolism
  - Quickly recite the differential diagnosis for DVT and apply it to the initial work up for leg edema – DVT= Deep Vein Thrombosis
  - Rank the likelihood of VTE on a differential diagnosis by being able to consistently recite the risk factors for VTE
  - Utilize different systems (Wells’, PERC) for deciding what the risk or likelihood of VTE disease
  - Be able to order testing to confirm diagnosis of VTE based on likelihood of disease under various clinical conditions
- Suggest different treatment options for VTE under various clinical circumstances by applying contraindications of different anticoagulants
  - Identify patients with VTE where advanced treatment options (IVC filter, thrombolysis, thrombectomy) may be needed
  - Be able to provide a duration of therapy for VTE under various clinical circumstances
  - Explain to patients what the complications are of VTE disease

Week 4
Topics
1. Cholestatic Liver Disease
2. Hepatocellular Disease
3. Approach to Elevated Liver Function Testing
4. Inflammatory Bowel Disease
5. Pancreatitis
Specific Learning Objectives

**Approach to Elevated Liver Function Testing “LFTs”**
- Approach elevated liver function testing and identify patterns to identify where potential liver damage is taking place
- Recite the differential diagnosis for hepatocellular damage
- Recite the differential diagnosis for cholestatic damage
- Identify what lab tests truly evaluate the synthetic function of the liver
- Explain how imaging can be used to assist in the differential of jaundice

**Cholestatic Liver Disease**
- Identify a cholestatic pattern when liver function tests (LFT) are elevated
  - Recite a differential diagnosis for cholestatic pattern of elevated “LFTs”
  - Use imaging efficiently to refine differential diagnosis
  - Identify patients that require acute surgical management
  - Review a patient’s medication list and identify medications that may potentially cause biliary stasis
- Identify patients that potentially have various cholestatic diseases based on signs and symptoms, demographics, and provide a workup to make a definitive diagnosis
  - Provide additional or confirmatory testing to refine differential
  - Provide basic treatment of various cholestatic diseases

**Hepatocellular Disease**
- Recite 5 etiology of elevated hepatocellular injury
  - Provide a workup as to the etiology of hepatocellular injury under various clinical scenarios
  - Be familiar with treatment of each hepatocellular disease
  - Identify the different disease states of viral hepatitis based on serology

**Inflammatory Bowel Disease**
- Recite the pathological differences in distribution and appearance of IBD consistently
- Know the signs and symptoms of IBD so it may be kept in your differential diagnosis of common GI complaints
- Identify extraintestinal manifestations of IBD
- Recite the initial work up for IBD knowing what you are looking for with each test
- Understand and decide on imaging/endoscopy to make diagnosis of IBD
- Familiarize yourself with treatment of UC and CD based on severity
- Recite the in-patient management of IBD quickly/consistently
- Monitor side effects and potential complications of immunomodulators

**Pancreatitis**
- Recite 10 causes of pancreatitis; knowing which 2 are the most common
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- Quickly provide a basic work up when pancreatitis is suspected
- Provide an advanced work up using labs and imaging when the etiology of pancreatitis is unclear
- Consistently diagnose pancreatitis based on signs and symptoms of disease in combination with laboratory and imaging findings
- Familiarize yourself with factors that indicate a worse prognosis in pancreatitis
- Construct a basic treatment plan for pancreatitis
- Familiarize yourself with complications of pancreatitis and how this might change management

QUizzes:

Transitions of Care Modules
Must be completed by the end of week two at 11:59 pm (Day 14) during this rotation. The purpose of this set of modules is to help you understand how to transfer care to another provider. By completing at the end of week 2 you will have 2 weeks to practice implementing these techniques, which have been shown to decrease errors in medicine, thus improve patient outcomes.

There is a quiz in D2I based on the content in this set Transitions of Care online modules. You must obtain an 80% score on 2 attempts or 90% on 2 attempts for honors. This score is not averaged into the other module scores but will be scored independently. The in-module quizzes and content, created by the faculty, is available in D2I and will help you achieve success on the overall transitions of care quiz.

Transitions of Care Modules:

Discharge Planning and Documentation
https://accessmedicine.mhmedical.com/CaseContent.aspx?gbosID=427555&gbosContainerID=209&viewByNumber=false&groupid=850#194526886

Discharge Transition
https://accessmedicine.mhmedical.com/CaseContent.aspx?gbosID=427559&gbosContainerID=209&viewByNumber=false&groupid=850#194527052

Hand-Off Communication
https://accessmedicine.mhmedical.com/CaseContent.aspx?gbosID=427557&gbosContainerID=209&viewByNumber=false&groupid=850#194526939

Hand-Off Standardization
https://accessmedicine.mhmedical.com/CaseContent.aspx?gbosID=427557&gbosContainerID=209&viewByNumber=false&groupid=850#194526939

Medication Reconciliation
https://accessmedicine.mhmedical.com/CaseContent.aspx?gbosID=427558&gbosContainerID=209&viewByNumber=false&groupid=850#194526966

Psychosocial Assessment
https://accessmedicine.mhmedical.com/CaseContent.aspx?gbosID=427560&gbosContainerID=209&viewByNumber=false&groupid=850#194527125

Instructions for accessing the Access Medicine Transitions of Care Modules and completing them. Please Read carefully.

1. You must create an account in your name first.
To create account:

Go to https://lib.msu.edu/health/medicine/ then click on AccessMedicine

You can then create an account or log in if you already have an account. You will need an account because there will be times that you will need to email the Instructor of Record documentation.

Make sure you are logging into your account with your MSUNETID before you work on the case, so it records it as you.

2. In Access Medicine

Once in Access Medicine click on Cases, then select Internal Medicine Cases, and it will take you to a page that has links to all the inpatient IM cases, the outpatient IM case list, and the Transitions of Care list. Scroll down to the bottom of the page and you will see Transitions of Care and six topics.

HARRISON’S QUESTION BANK QUIZ
Instructions for accessing in Access Medicine

1. Go to https://lib.msu.edu/health/medicine/ then click on AccessMedicine
2. Once in Access Medicine, select “Cases”, then “Fluid/Electrolyte Acid Base Cases”
   - This will bring you to Harrison’s Fluid/Electrolyte & Acid-Base Cases
   - Select “Go to Review Questions”

Create a 100-question quiz using the following guidelines:

- 20 of the 156 available questions in the section on Cardinal Manifestations of Disease
- 5 of the 156 available questions in the section on Oncology and Hematology
- 10 of the 156 available questions in the section on Infectious Disease
- 15 of the 156 available questions in the section on Disorders of the Cardiovascular System
- 13 of the 156 available questions in the section on Disorders of the Respiratory System and Critical Care Illness
- 13 of the 156 available questions in the section on Disorders of the Kidney and Urinary Tract
- 12 of the 156 available questions in the section on Disorders of the Gastrointestinal System
- 12 of the 156 available questions in the section on Endocrinology and Immunology

Submit your score sheet to the D2L Dropbox. You must achieve a minimum of 70% on the 100-item combined exam to receive credit. You may take as many 100 item quizzes as it takes to achieve this. Each time you select the number of questions assigned the computer will select them from its question bank. This should help prepare you for COMAT and COMLEX Level 2. Please submit only the front page with your name and score to the drop box

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 2 of the rotation. It should be dated no later than the 3rd 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 to be eligible to receive Honors 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. If you are unable to complete the Mid-Rotation Feedback, it will be your responsibility to reach out to the Course Coordinator for the assigned Corrective Action, see page 16.
COMAT EXAM INFORMATION

DUE DATE: The last Friday of the rotation

All students are required to take the NBOME COMAT examination in Internal Medicine on the last Friday of either their second or third IM rotation. The score for the exam will be considered part of the IM 660 rotation grade and for honors designations in all three IM courses.

If this deadline is not met, the student will be required to reschedule this exam at a later date. Students will need to contact the Course Assistant, Katie Gibson-Stofflet:

1. By the end of the first week of the rotation if there is a conflict regarding taking the exam on the last Friday of the rotation, or
2. Within 24 hours of an emergency that will keep the student from taking the exam the last Friday of the rotation. Course faculty will consider each case and determine if a delay in the exam will be permitted. Should a student be granted a delay in examination or early testing approval, the Department will send written approval and notification of the required reschedule date to the COM Clerkship Office.

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 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 83 or above on the exam that you take to receive a passing grade. Each student will be allowed to take the exam 2 times before receiving an “N” grade for the rotation. When a student must sit for a re-take of the exam, they will be contacted by the Course Assistant, who will provide the student with a deadline by which they must sit for the re-take, as well as the consequence for failure to do so. If a student receives an “N” grade for the rotation, they will be notified of the failure by the department.

For information on exam registration and administration, please visit the COM Clerkship Office’s COMAT webpage: https://com.msu.edu/current-students/clerkship-medical-education/comat

DUE DATE: The last Friday of the Rotation

If a student requires an accommodation, a valid VISA from the Resource Center for Persons with Disabilities must be presented to the COM Clerkship Office 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.

The second attempt of the exam will need to be done within the next two cycles the COMAT exam is offered, or the students exam schedule will allow, or the student will receive an “N” grade for the rotation.

ROTATION EVALUATIONS

Attending Evaluation of Student

Class of 2023: 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.
Class of 2024: Students are responsible for verifying that a clinical supervisor has been correctly identified on their rotation schedules within Medtrics so that an email can be generated and delivered to their attending physician's preferred email address at the midpoint of their rotation. 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 access Attending Evaluations that were completed on their behalf by visiting the ‘Evaluations’ module (in the ‘About Me’ tab) of their Medtrics profiles.

Class of 2023 & Class of 2024:
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.

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. Students are required to ensure their rotation requirements are completed correctly.

Student Evaluation of Clerkship Rotation

Class of 2023: 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

Class of 2024: 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 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. Quizzes
   The student who fails to achieve an 80% on each weekly quiz with 2 attempts will either be allowed to have a third attempt or take a comprehensive final examination that will be a random selection of similar questions, worth 50 points, with a necessary score of 80% to pass. It will be a cumulative examination and will be offered within the first two weeks following the completion of the rotation in which the student failed to achieve the necessary average score. The Instructor of Record will advise what option you will be given based on their review of your attempts.

   Transitions of Care Quiz – You will have as many attempts as needed to complete the requirement.

   Harrisons Quiz – Students who fail to meet the passing percentage will have their quiz reviewed by the Instructor of Record and then there will be a discussion with the student regarding areas of content to be further reviewed.

2. Mid Rotation Evaluation
   Students that do not successfully complete and upload their mid rotation evaluation by 11:59 pm the last day (Sunday) of the rotation will be required to email the Course Coordinator with an explanation why this was missed.

   The Course Assistant will contact the Instructor of Record and they will assign the required Corrective Action. Corrective Action may take one of a variety of different formats, and the instructions will be outlined in the email from the Course Assistant with details and deadlines.

3. Evaluations
   The student who fails to turn in required paperwork, who has a verifiable reason why they failed to do so, will be allowed 14 days, or more depending on the circumstances. Failure to meet this two-week deadline will result in an N grade.

   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 ET 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 Internal Medicine clerkship is divided into three four-week rotations that include an IM or FM- Ambulatory, IM-Hospital and IM-Sub-I clerkship. This will provide the mechanism to achieve the objectives that will be covered in internal medicine.

During the third-year inpatient IM rotation, students will rotate as a part of the medical team at their designated hospital. The students will work primarily with the preceptor and with intern/resident physicians when applicable as part of the team caring for patients. Students will be expected to write history and physicals on new admits and daily progress notes.

Medical students are expected to participate in direct patient care on the hospital floors, although final responsibility and decision-making rests with the attending physician. As a third-year student, more emphasis will be placed on student responsibility and your ability to manage basic internal medicine patients. Students are required to attend daily didactics that may include morning reports, noon conferences, faculty grand rounds, resident grand rounds, hematology rounds, cardiology rounds and faculty lectures. During your clinical rotation you will be part of many different learning environments and will be given a great deal of responsibility. Importantly, most of your patients will consider you a critical member of the medical team and see you as a physician. Given this, it is vital that a high level of professional behavior is maintained. Outward appearance is very important in this regard and is critical for initial impressions and for gaining the respect of your patients.

Scrubs are provided for situations where extended periods of patient care necessitate more comfortable clothing or a change in clothing. Therefore, scrubs are allowed for on-call days only.

At ALL times when patient contact is expected or anticipated, your waist-length WHITE COAT will be worn, with your ID badge worn above the waist.

Students are expected to function collaboratively on health care teams that include health professionals from other disciplines in the provision of quality, patient-centered care.

Students are expected to identify, access, interpret and apply medical evidence contained in the scientific literature related to patients' health problems.

Students are expected to: assess their personal learning needs specific to this clinical rotation, engage in deliberate, independent learning activities to address their gaps in knowledge, skills, or attitudes; and solicit feedback and use it on a daily basis to continuously improve their clinical practice.

- Show up early.
- Demonstrate genuine interest.
- Record daily clinical questions for nightly study.

Reading at least one hour per day will elevate you to the top of your class and will make Board preparation much easier.

ATTIRE AND ETIQUETTE

During your clinical rotation, you will be a part of many different learning environments and will be given a great deal of responsibility. Importantly, most of your patients will consider you a critical member of the medical team and see you as a physician. Given this, it is vital that a high level of professional behavior is
maintained. Outward appearance is very important in this regard and is critical for initial impressions and for gaining the respect of your patients. For this reason, please adhere to the following dress code during your clerkship:

- Men should routinely dress in slacks, as well as a shirt and tie. No blue jeans are allowed during any rotation.
- Women should wear skirt or slacks. Skirts should be of a length that reaches the knees or longer.
- Tennis shoes should not be worn, except with scrubs.
- No open toe shoes, flip-flops, or sandals are allowed at any time. Socks are always a public health code requirement.
- Scrubs are provided for situations where extended periods of patient care necessitate more comfortable clothing or a change in clothing. Therefore, scrubs are allowed for ‘on-call days’ only.
- At ALL times when patient contact is expected or anticipated, your waist-length WHITE COAT will be worn, with your ID badge worn above the waist.
- As this policy simply represents general guidelines, we encourage anyone with uncertainties or questions regarding the dress code to reach out to the student director for confirmation.
- Wear a waterproof gown when blood or body fluid may soak a cloth gown.

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 the absence. An absence due to a sudden emergency is the exception to the 30-day advanced notice rule.
- **Class of 2023**: Once appropriate approval signatures are obtained on the *Clerkship Program Excused Absence Request Form*, the signed document should be maintained for your records in the event they are later requested or required.
- **Class of 2024**: 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*

<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 off from the Assistant Dean for Clerkship Education via email (COM.Clerkship@msu.edu) prior to the absence.

*Exception: A fourth-year student may be absent a total of 4 days on any 4-week rotation or 2 days on any 2-week rotation during the months of October-January for interview purposes only. If interview absences exceed these totals, the student must submit a Clerkship Program Excused Absence Request Form (with appropriate signatures obtained from the rotation attending and rotation site) to the Assistant Dean for Clerkship Education via email (COM.Clerkship@msu.edu) prior to the absence.
<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>May be used at the discretion of the student (example: illness, physician apt., conference time, etc.). Total days off any one rotation (including personal days off) cannot exceed 2 on any one 4-week rotation.</td>
<td>5 total days per academic year (July-June)</td>
<td>While personal days may be used at the discretion of the student, the total days off any one rotation (including personal days off) cannot exceed 2 on any one 4-week rotation, i.e., students cannot use all 5 days on one rotation.</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 have the time off to take the examination only Students should be reporting to rotation before/after examination.</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>COMAT/NBME shelf examinations</td>
<td></td>
<td>Students should be reporting to rotation before/after examination.</td>
<td>No</td>
</tr>
<tr>
<td>Prolonged Illness, Bereavement, Maternity Leave</td>
<td>Medical related absence or bereavement</td>
<td>Determined on a case-by-case basis</td>
<td>Students must contact the Assistant Dean for Clerkship Education directly (<a href="mailto:enright4@msu.edu">enright4@msu.edu</a>) to discuss time off rotations.</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Clerkship Program Excused Absence Request Forms: **Class of 2024:** 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 for their records. **Class of 2023:** Once appropriate approval signatures are obtained, forms should be maintained for your records in the event they are later requested or required.
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 progresses through the curriculum, with the supervising physicians providing the medical student opportunity to demonstrate progressive involvement in patient care. MSUCOM students will be expected to follow clinical policies of the facility regarding medical records and clinical care. Medical student participation in patient history/physical exam, critical data analysis, management, and procedures will include, but are not limited to, factors such as:

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

First- and second-year medical students will be directly supervised at all times (supervising physician or designee present or immediately available). Third- and fourth-year medical students will be supervised at a level appropriate to the clinical situation and that student’s level of experience. For some tasks, indirect supervision may be appropriate for some students. Direct supervision would be appropriate for advanced procedures.

Supervising physicians will provide medical students with timely and specific feedback on performance. The supervising physician will complete a mid-rotation evaluative discussion with the medical student. Supervising physicians will complete a summative evaluation and are encouraged to contact the course/clerkship director with any gaps in student performance.
Medical students with any concern regarding clinical, administrative, and educational or safety issues during his/her rotation will be encouraged to contact the supervising physician or clerkship/course director.

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

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

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

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

- **Collaboration**: Working together with others
  - Interactive: Interact effectively and respectfully with people you encounter; demonstrate honesty, genuineness, humility, and compassion
  - Dynamics and Communication: Demonstrate respect, civility, and courtesy in communication; communicate effectively with diverse individuals and groups for a variety of purposes using available technologies; employ active listening
  - Use of Feedback: Identify sources of feedback; deliver and receive effective feedback for initiatives, evaluations and assessments, quality improvements, conflict resolution, and peer review
- **Opportunity**: Encouraging an environment of mutual support
  - Shared Leadership: Exhibit advocacy for self and others; accept situational leadership as needed; establish mutual support and respect; participate as a support for others regardless of title or position
  - Problem-solving: Recognize and define problems; analyze data; implement solutions; evaluate outcomes; include the perspectives of others
IM 650 Core Internal Medicine Inpatient Clerkship

- 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](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 certain core rotations. Criteria for achieving honors in a core rotation will be determined by the Instructor of Record and will be listed in the course syllabus. While 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 students 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 in a core rotation will be determined by the Instructor of Record and will be listed in the course syllabus. 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.

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.

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

**STUDENT VISA**
Michigan State University is committed to providing equal opportunity for participation in all programs, services, and activities. Requests for accommodations by persons with disabilities may be made by contacting the Resource Center for Persons with Disabilities (RCPD) at 517-884-RCPD, or on the web at www.rcpd.msu.edu. Once a student's eligibility for (clinical and/or testing) accommodation(s) are determined, the student may be issued a **Verified Individualized Services and Accommodations (VISA)** form. Students must present their VISA forms to the Clerkship Team (COM.Clerkship@msu.edu) at the start of the semester in which they intend to use their accommodations (for tests, projects, labs, etc.). Accommodation requests received after the semester onset will be honored whenever possible.

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

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Submission Method</th>
<th>Honors Designation</th>
<th>High Pass</th>
<th>Pass</th>
<th>Extended Grade</th>
<th>No Pass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transitions of Care</td>
<td>Completed in D2L</td>
<td>➢ 90% on 2 attempts by 11:59 pm on the last day of week 2 of the Rotation (quiz in D2L)</td>
<td>➢ 90% on 2 attempts by 11:59 pm on the last day of week 2 of the Rotation (quiz in D2L)</td>
<td>➢ 80% in 2 attempts by 11:59 pm on the last day of week 2 of the Rotation (quiz in D2L)</td>
<td>• Will be the conditional grade until all requirements of this rotation are met.</td>
<td>• Failure to take the quiz and meet the requirements.</td>
</tr>
<tr>
<td>Harrison's Questions Bank Quiz</td>
<td>Submitted into Dropbox in D2L</td>
<td>• Completed 70% minimum score and uploaded by 11:59pm the last day of the rotation.</td>
<td>• Completed 70% minimum score and uploaded by 11:59pm the last day of the rotation.</td>
<td>• Completed 70% minimum score and uploaded by 11:59pm 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 take the quiz and meet the requirements.</td>
</tr>
<tr>
<td>Mid Rotation Evaluation Form</td>
<td>Completed 100% and uploaded into D2L Dropbox by 11:59pm the third Wednesday of the rotation.</td>
<td>• Completed 100% and uploaded by 11:59 pm the third Wednesday of the 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 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 semesters after the rotation ends.</td>
</tr>
<tr>
<td>View the 4 modules online. Take end of module Quiz after completing each module</td>
<td>Completed in D2L.</td>
<td>• Completed by 11:59 pm the last day of the Rotation with a 90% score on each module with 2 attempts.</td>
<td>• Completed by 11:59 pm the last day of the Rotation with a 90% score on each module with 2 attempts.</td>
<td>• 80% score on each of the four weekly module quizzes with 2 attempts. Completed by 11:59 pm the last day of the Rotation with an</td>
<td>• Will be the conditional grade until all requirements of this rotation are met.</td>
<td>• Failure to meet the quiz and or the corrective action.</td>
</tr>
<tr>
<td>Shift Schedule</td>
<td>Submitted into Dropbox in D2L.</td>
<td>• Completed 100% and uploaded by 11:59pm the last day of the rotation. You must upload the schedule you</td>
<td>• Completed 100% and uploaded by 11:59 pm the last day of the rotation. You must upload the schedule you worked. There is no</td>
<td>• Completed 100% and uploaded by 11:59 pm the last day of the rotation. You must upload the schedule you worked. There is no</td>
<td>• Will be the conditional grade until all requirements of this rotation are met.</td>
<td>• Failure to complete and upload within two semesters after the rotation ends.</td>
</tr>
<tr>
<td>Requirement</td>
<td>Submission Method</td>
<td>Honors Designation</td>
<td>High Pass</td>
<td>Pass</td>
<td>Extended Grade</td>
<td>No Pass</td>
</tr>
<tr>
<td>-------------------------------------------------</td>
<td>-------------------</td>
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<td>----------------</td>
<td>-------------------------</td>
</tr>
<tr>
<td>COMAT Exam (scored under course 660)</td>
<td>NBOME</td>
<td>* Meet all</td>
<td>standard form, and you can just upload the four-week calendar marking the shifts you worked.</td>
<td>* Meet all</td>
<td>you can just upload the four-week calendar marking the shifts you worked.</td>
<td>* Any one below</td>
</tr>
<tr>
<td>Attending Evaluation of Clerkship Student (Class of 2023)</td>
<td>Can be accessed via the “Attending Evaluation” link in Kobiljak online schedule. Email completed evaluation to <a href="mailto:COM.Clerkship@msu.edu">COM.Clerkship@msu.edu</a></td>
<td>• In order to receive Honor's in IM 658, you must achieve an Honor's score on the COMAT.</td>
<td>• Receives no “Below Expectations”</td>
<td>• Receives no comments indicating below expectations of performance</td>
<td>• Student may receive “Below Expectations” in up to one (1) subcategory</td>
<td>• Will be the conditional grade until all requirements of this rotation are met</td>
</tr>
<tr>
<td>Attending Evaluation of Clerkship Student (Class of 2024)</td>
<td>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</td>
<td>• Receives no “Below Expectations”</td>
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<td>• Receives no comments indicating below expectations of performance</td>
<td>• Student may receive “Below Expectations” in up to one (1) subcategory</td>
<td>• Will be the conditional grade until all requirements of this rotation are met</td>
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</tbody>
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Can be accessed via the “Attending Evaluation” link in Kobiljak online schedule. Email completed evaluation to COM.Clerkship@msu.edu
<table>
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<th>No Pass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student Evaluation of Clerkship Rotation (Class of 2023)</td>
<td>Can be accessed and submitted via the “Student Evaluation” link in Kobiljak online schedule.</td>
<td>* Meet all</td>
<td>Completed 100% and uploaded by 11:59pm the last day of the rotation</td>
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<td>Will be the conditional grade until all requirements of this rotation are met.</td>
</tr>
<tr>
<td>Student Evaluation of Clerkship Rotation (Class of 2024)</td>
<td>Can be accessed and submitted electronically by students within the dashboard of their Medtrics profiles</td>
<td>* Meet all</td>
<td>Completed 100% and uploaded by 11:59pm the last day of the rotation</td>
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Failure to complete and upload within two semesters after the rotation ends.