

IM 658
CORE INTERNAL MEDICINE
OUT-PATIENT

CLERKSHIP CORE ROTATION SYLLABUS

OSTEPATHIC MEDICAL SPECIALTIES

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

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

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INTRODUCTION AND OVERVIEW

Welcome to IM 658 Core Internal Medicine Outpatient Clerkship, which is one of two or three Core Internal Medicine (IM) rotations you will complete successfully during 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.

COURSE SCHEDULING

Course Enrollment

- The student must be an active student at MSUCOM.
- Core rotations are scheduled by MSUCOM and may not be moved.
- It is the responsibility of the student to ensure MSUCOM confirmation and enrollment prior to starting any course/rotation:
 - MSUCOM clerkship confirmation is complete when the rotation is visible on the students Medtrics schedule.
 - Enrollment will be processed by the MSUCOM Registrar's Office upon clerkship confirmation.
 - Enrollment can be verified by the student by reviewing the Student Information System

ROTATION FORMAT

The instructional modules for the ambulatory IM rotation are created to showcase a typical day for an Internist. These nine modules flow sequentially with one new patient who presents to your clinic. Over time new maladies are uncovered. There is a single reference guide, divided into multiple topics in which is strongly encouraged that you to print off. You will need to minimize distractions while looking for the key points during module viewing and enter in the highlighted areas. Each of the nine modules is followed by a short quiz covering those key points. Each module is under 60 minutes. It would behoove you to complete all of them the weekend before your rotation starts. In the end you will have a Reference Guide that you have completed on your own which will assist with internship, residency, and Board preparation.

GOALS AND OBJECTIVES

GOALS

1. Demonstrate the ability to obtain a comprehensive history and physical examination.
2. Demonstrate cardinal techniques of examination that include inspection, palpation, percussion, and auscultation.
3. Explain the indications and interpretation of routine laboratory tests and procedures.
4. Recommend appropriate cost-effective diagnostic tests in the era of cost containment.

5. Demonstrate clinical reasoning, assessment, and planning skills appropriate for level of training.
6. Apply knowledge of relevant health screening and disease prevention guidelines in formulating the plan of care
7. Demonstrate professionalism throughout the rotation.
8. Apply the Tenant:
 - The body is a unit; the person is a unit of body, mind, and spirit.
 - The body is capable of self-regulation, self-healing, and health maintenance.
 - Structure and function are reciprocally interrelated.
 - Rational treatment is based upon an understanding of the basic principles of body, unity, self-regulation, and the interrelationship of structure and function.
 - The body's self-healing capacity when mind, body and spirit are in balance.

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:

1. Osteopathic Principles and Practice
 - Approach the patient with recognition of the entire clinical context, including mind- body and psychosocial interrelationships.
 - Diagnose clinical conditions and plan patient care.
 - Perform or recommend OMT as part of a treatment plan.
 - Communicate and document treatment details.
2. Medical Knowledge
 - Articulate basic biomedical science and epidemiological and clinical science principles related to patient presentation.
3. 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
4. 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.
5. 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.
6. 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.
7. 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 patients.

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

1. 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 Out-Patient Clerkship**

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

2. **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/>
3. **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. Go to <https://lib.msu.edu/health/medicine/> then click on Access Medicine

SUGGESTED STUDY RESOURCES

Recommended Texts

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

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 at: <https://accessmedicine-mhmedical-com.proxy2.cl.msu.edu/book.aspx?bookID=3095>

Recommended Websites

Additional Resources/Convenient Apps - some are free through the web and some you will need to pay for if you would like access. Also check with your hospital library as to whether they have any available electronically for your use.

1. Dynamed- <http://libguides.lib.msu.edu/dynamedapp>
2. Epocrates - <https://online.epocrates.com/rxmain>
3. PreOpEval - <https://itunes.apple.com/us/app/preop-eval/id374154834?mt=8>
4. The Sanford Guide - <http://www.sanfordguide.com/>
5. ACP Doctors Doctor's Dilemma - <https://ddm.acponline.org/>

Accessing the Electronic Resources Using MSU's Library will provide many of these for free.

ROTATION REQUIREMENTS

REQUIREMENT	SUBMISSION METHOD	DUE DATE Please refer to D2L for actual (month/day) due dates
View the nine modules online. Take end of module Quiz after completing each module	Completed in D2L	It is suggested to take the end of module Quiz after completing each weekly module, but they must be completed 100% by the last Sunday of the rotation at 11:59 pm.
Student Daily Shift Schedule. It must be the actual schedule you worked and not the schedule you were assigned.	Submitted into Dropbox in D2L	Completed 100% and uploaded by the last Sunday of the rotation by 11:59 pm.
Mid Rotation Evaluation	Submitted into Dropbox in D2L	Completed 100% and uploaded by the third Sunday of the rotation at 11:59 pm. Dated by the 3rd Wednesday of the rotation.
Attending Evaluation of Clerkship Student	Students must select their attending physician as directed within the rotation description in Medtrics. At the start of the last week of the rotation, students will need to request an evaluation in Medtrics. By requesting an attending evaluation from their assigned attending physician, the attending physician will receive an automated email link connecting them to their assigned Attending	Last Day of Rotation

REQUIREMENT	SUBMISSION METHOD	DUE DATE Please refer to D2L for actual (month/day) due dates
	Evaluation within Medtrics. Attendings will be able to electronically access and submit the forms on behalf of their students.	
Student Evaluation of Clerkship Rotation	Students will submit their rotation evaluations electronically at the conclusion of every rotation by accessing the Medtrics system: https://msucom.medtricslab.com/users/login/ . By the last week of each rotation, students will receive an automated email link connecting them to their assigned evaluation. Students can also access pending evaluations on the 'Home' or 'Evaluations' tabs within their Medtrics accounts.	Last Sunday of Rotation

WEEKLY READINGS/OBJECTIVES/ASSIGNMENTS

Students will find module presentations on D2L. References are listed here and may be reviewed as additional reading.

Module 1: Hypertension

Module Objectives

- Understand the proper way of measuring brachial arterial pressure.
- Describe the difference between white coat, masked and resistant HTN.
- Recognize the physical exam manifestations of uncontrolled HTN.
- List the appropriate tests for the initial workup of newly diagnosed HTN.
- List the substances that can raise blood pressure.
- Identify findings that suggest resistant HTN.
- Understand the 2017 ACC/AHA Classification of HTN.
- List lifestyle modification for BP reduction.
- Define the threshold to start medication for uncontrolled HTN.
- Outline the compelling indications, contraindications, and side effects of the various classes of antihypertensive medications.
- Define BP goals for special populations.

Module References

2017 ACC/AHA/AAPA/ABC/ACPM/AGS/APhA/ ASH/ASPC/NMA/PCNA Guideline for the Prevention, Detection, Evaluation, and Management of High Blood Pressure in Adults A Report of the American College of Cardiology/American Heart Association Task Force on Clinical Practice Guidelines

<https://www.ahajournals.org/doi/full/10.1161/HYP.0000000000000065>

2014 Evidence-Based Guideline for the Management of High Blood Pressure in Adults Report from the Panel Members Appointed to the Eighth Joint National Committee (JNC8) JAMA.doi:10.1001/jama.2013.284427 PublishedonlineDecember18,2013

<https://jamanetwork.com/journals/jama/fullarticle/1791497>

Module Requirements

- Review the module online.
- Complete the Module Quiz, there will be two attempts offered to you. Please take advantage of both.

Module 2: Diabetes

Module Objectives

- List the diagnostic criteria for DM.
- List the efficacy, safety, and compelling indications for each class.
- Describe the chronic complications of DM recommended screening.

Module References

American Diabetes Association, Introduction and Methodology: *Standards of Care in Diabetes—2024. Diabetes Care* 1 January 2024; 47 (Supplement_1): S1–S4.

https://diabetesjournals.org/care/issue/47/Supplement_1

Module Requirements

- Review the module online.
- Complete the Module Quiz, there will be two attempts offered to you. Please take advantage of both.

Module 3: Dyslipidemia

Module Objectives

- List the four major groups who benefit from intensive statin therapies.
- Recite the expected change in values of available agents.
- Recognize which agents have morbidity/mortality reduction.
- Describe the management of side effects of each available class.

Module References

2018 AHA/ACC/AACVPR/AAPA/ABC/ACPM/ADA/AGS/APhA/ASPC/NLA/PCNA Guideline on the Management of Blood Cholesterol: A Report of the American College of Cardiology/American Heart Association Task Force on Clinical Practice Guidelines. *Circulation*. 2019 Jun 18;139(25): e1082-e1143. doi: 10.1161/CIR.0000000000000625. Epub 2018 Nov 10. Erratum in: *Circulation*. 2019 Jun 18;139(25): e1182-e1186. PMID: 30586774; PMCID: PMC7403606.

https://www.ahajournals.org/doi/10.1161/CIR.0000000000000625?url_ver=Z39.88-2003&rfr_id=ori%3Arid%3Aacrossref.org&rfr_dat=cr_pub++0pubmed&

American College of Cardiology 2018 Guideline on the Management of Blood Cholesterol

https://www.acc.org/~media/Non-Clinical/Files-PDFs-Excel-MS-Word-etc/Guidelines/2018/old_Guidelines-Made-Simple-Tool-2018-Cholesterol.pdf

Stone NJ, Robinson J, Lichtenstein AH, et al. 2013 ACC/AHA guideline on the treatment of blood cholesterol to reduce atherosclerotic cardiovascular risk in adults: a report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines. *Circulation* 2013 Nov 12 <https://www.ahajournals.org/doi/pdf/10.1161/01.cir.0000437738.63853.7a>

Module Requirements

- Review the module online.
- Complete the Module Quiz, there will be two attempts offered to you. Please take advantage of both.

Module 4: Thyroid Nodules

Module Objectives

- Know when a thyroid Ultrasound should be performed.

- Understand when a fine needle aspiration is indicated.
- Describe the follow up of benign nodules.

Module References

AACE/ACE/AME Task Force on Thyroid Nodules. Medical Guidelines for Clinical Practice for the Diagnosis and Management of Thyroid Nodules-2016 update. *Endocr Pract.* 2016 May;22(5):622-39. doi: 10.4158/EP161208.GL. PMID: 27167915. <https://pubmed.ncbi.nlm.nih.gov/27167915/>

Module Requirements

- Review the module online.
- Complete the Module Quiz, there will be two attempts offered to you. Please take advantage of both.

Module 5: Perioperative medicine

Module Objectives

- Differentiate which activities are 4 METS.
- List the risk factors included in the Revised Cardiac Risk Index and associated risk % of perioperative cardiac death.
- Evaluate a patient for peri-operative risk using the “Stepwise Approach to Perioperative Cardiac Assessment: Treatment Algorithm.”
- List the medications that should be held for pending surgery.
- Describe the key clinical considerations in the perioperative management of:
 - Cigarette Smoking
 - OSA
 - Adrenal Insufficiency

Module References

2014 ACC/AHA Guideline on perioperative cardiovascular evaluation and management of patients undergoing noncardiac surgery: a report of the American College of Cardiology/American Heart Association Task Force on practice guidelines. *J Am Coll Cardiol.* 2014 Dec 9;64(22): e77-137. PMID: 25091544 <https://pubmed.ncbi.nlm.nih.gov/25091544/>

Module Requirements

- Review the module online.
- Complete the Module Quiz, there will be two attempts offered to you. Please take advantage of both.

Module 6: "The Incidentals"

Module Objectives

- List the tests in the initial workup of recurrent kidney stones.
- Recite the general prevention measures for kidney stones.
- List the available treatment options for prevention of various kidney stones.
- Recite the CT characteristics that differentiate benign from malignant findings for the adrenal incidentaloma.
- List the serological tests needed for the adrenal incidentaloma.
- Indicate when surgery is required for adrenal incidentaloma.
- Details on the follow up of the adrenal Incidentaloma.
- Describe the diagnostic work-up for a pulmonary nodule.
- Describe the follow up of a pulmonary nodule.
- Describe the workup of a renal cyst.

Module References

Pearle MS, Goldfarb DS, Assimos DG, Curhan G, Denu-Ciocca CJ, Matlaga BR, Monga M, Penniston KL, Preminger GM, Turk TM, White JR; American Urological Association. Medical management of kidney stones: AUA guideline. *J Urol*. 2014 Aug;192(2):316-24. doi: 10.1016/j.juro.2014.05.006. Epub 2014 May 20. PMID: 24857648. <https://pubmed.ncbi.nlm.nih.gov/24857648/>

Guidelines for Management of Incidental Pulmonary Nodules Detected on CT Images: From the Fleischner Society 2017. *Radiology*. 2017 Jul;284(1):228-243. doi: 10.1148/radiol.2017161659. Epub 2017 Feb 23. PMID: 28240562. <https://pubmed.ncbi.nlm.nih.gov/28240562/>

The American Association of Clinical Endocrinologists and American Association of Endocrine Surgeons medical guidelines for the management of adrenal incidentalomas. *Endocr Pract*. 2009 Jul-Aug;15 Suppl 1:1-20. PMID: 19632967 <https://pubmed.ncbi.nlm.nih.gov/19632967/>

Schieda N, Davenport MS, Krishna S, Edney EA, Pedrosa I, Hindman N, Baroni RH, Curci NE, Shinagare A, Silverman SG. Bosniak Classification of Cystic Renal Masses, Version 2019: A Pictorial Guide to Clinical Use. *Radiographics*. 2022 Jan-Feb;42(1): E33. doi: 10.1148/rg.219016. Erratum for: *Radiographics*. 2021 May-Jun;41(3):814-828. PMID: 34990332. <https://pubmed.ncbi.nlm.nih.gov/34990332/>

Module Requirements

- Review the module online.
- Complete the Module Quiz, there will be two attempts offered to you. Please take advantage of both.

Module 7: Select Topics in Rheumatology

Module Objectives

- Identify the presentation of gout.
- Know when arthrocentesis is indicated.
- List the laboratory tests needed in the initial work up of gout.
- List the available treatment options for gout.
- Describe the goals for chronic treatment.
- Details of the follow up of treatment of gout.
- Recognize other masqueraders.
- Recognize the presentation of Polymyalgia Rheumatica (PMR).
- Describe the treatment and follow up of patients with (PMR).

Module References

2020 American College of Rheumatology Guideline for the Management of Gout. *Arthritis Rheumatology*. 2020 Jun;72(6):879-895. doi: 10.1002/art.41247. Epub 2020 May 11. Erratum in: *Arthritis Rheumatology*. 2021 Mar;73(3):413. PMID: 32390306. <https://pubmed.ncbi.nlm.nih.gov/32390306/>

European League Against Rheumatism; American College of Rheumatology. 2015 recommendations for the management of polymyalgia rheumatica: a European League Against Rheumatism/American College of Rheumatology collaborative initiative. *Arthritis Rheumatology*. 2015 Oct;67(10):2569-80. doi: 10.1002/art.39333. PMID: 26352874. <https://pubmed.ncbi.nlm.nih.gov/26352874/>

Module Requirements

- Review the module online.
- Complete the Module Quiz, there will be two attempts offered to you. Please take advantage of both.

Module 8: Healthy Living

Module Objectives

- Differentiate the stages of change.
- Be able to identify what stage a patient is in.
- Be able to move the patient to the next stage.
- Describe the various treatment options for smoking cessation.
- Describe the various treatment options for alcohol reduction.
- Describe the various treatment options for weight loss.

Module References

Motivational interviewing and the clinical science of Carl Rogers. *J Consult Clin Psychol.* 2017 Aug;85(8):757-766. doi: 10.1037/ccp0000179. PMID: 28726479.
<https://pubmed.ncbi.nlm.nih.gov/28726479/>

Module Requirements

- Review the module online.
- Complete the Module Quiz, there will be two attempts offered to you. Please take advantage of both.

Module 9: Sleep Disorders

Module Objectives

- List the elements of sleep hygiene.
- Describe the workup and treatment of Restless Legs Syndrome
- Describe the workup and treatment of Obstructive Sleep Apnea

Module References

Clinical Guideline for the Evaluation and Management of Chronic Insomnia in Adults (aasm.org)
<https://jcsa.aasm.org/doi/pdf/10.5664/jcsa.27286>

Practice guideline summary: Treatment of restless legs syndrome in adults. *Neurology.* 2016; 87(24): 2585–2593. <https://doi.org/10.1212/wnl.0000000000003388>

Clinical practice guideline for diagnostic testing for adult obstructive sleep apnea: an American Academy of Sleep Medicine clinical practice guideline. *J Clin Sleep Med.* 2017;13(3):479–504.
<https://jcsa.aasm.org/doi/pdf/10.5664/jcsa.6506>

Treatment of Adult Obstructive Sleep Apnea with Positive Airway Pressure: An American Academy of Sleep Medicine Clinical Practice Guideline (aasm.org)
<https://jcsa.aasm.org/doi/pdf/10.5664/jcsa.7640>

Module Requirements

- Review the module online.
- Complete the Module Quiz, there will be two attempts offered to you. Please take advantage of both

QUIZZES

There will be 9 Module quizzes to complete:

- Each will be in the Module folder on D2L.
- You will have two attempts on each quiz.

Honors Scores needed on **each** Module Quiz:

- You will need to score 90% or above cumulative over all module quizzes.
- There are two attempts to achieve this score, please take advantage of this.

High Pass Scores needed on **each** Module Quiz:

- You will need to score 85% or above cumulative over all module quizzes.
- There are two attempts to achieve this score, please take advantage of this.

Pass Scores needed on **each** Module Quiz:

- You will need to score 80% or above on each module quiz.
- There are two attempts to achieve this score, please take advantage of this.
- If you fail to meet the minimum score for a quiz, please see the Corrective Action Policy on Page

If you fail to complete **any/all** the Module Quizzes, please see the Corrective Action Policy

SHIFT SCHEDULE

You will need to upload a four-week calendar that lists the shifts that you worked.

Students must upload the form to a D2L drop box by 11:59 pm on the last Sunday 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.

MID-ROTATION FEEDBACK FORM

This will need to be completed by an Attending or Resident at the end of week two of the rotation. It should be dated between Friday of the second week and **no later** than the 3rd Wednesday of the rotation.

Students must upload the form to the correct drop box (100% completed and needing no revisions) on D2L by 11:59 pm the third Sunday of the rotation to be eligible to receive Honors or obtain a High Pass in the rotation. Students must upload the form to the correct drop box (completed 100% and needing no revisions) on D2L by 11:59 pm the third Sunday of the rotation to be eligible to receive a Pass in this rotation.

A grade cannot be entered for the course until all requirements are met. Students that do not successfully complete and upload their mid rotation evaluation 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.

COMAT EXAM INFORMATION

All students are required to take the NBOME COMAT examination in Internal Medicine on the last Friday of IM 660. The score for the exam will be considered part of the IM 660 rotation grade and for Honors or High Pass designations in all IM core rotations.

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, 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.

Students must score an 83 or above on the exam that you take to receive a passing grade. Each student will be allowed to take the exam two times before receiving an "N" grade for the rotation. When a student must sit for a re-take of the exam, s/he will be contacted by the Course Assistant, who will provide the

student with a deadline by which s/he 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, s/he will be notified of the failure by the department.

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

The COMAT exam for the related subject/course will be taken by the student on the last Friday of the rotation.

- a. Absence due to emergent need
 - i. The student will need to communicate emergent need of absence to the Associate Dean for Clerkship Education for approval (enright4@msu.edu). Documentation may be requested.
 1. The clerkship team will schedule a make-up examination that may occur on an open Friday COMAT test date, or another date chosen by the Clerkship team following the missed exam.
- b. Personal need to delay examination.
 - i. On rare occasion, the student may request to delay the COMAT examination. The Associate Dean for Clerkship Education will review and approve/deny such requests. The student must request a delay to com.clerkship@msu.edu by the end of the first week of the rotation.
- c. Failure to show for the scheduled examination, or failure to show up on time as described in the COMAT Policy, will result in a ‘0’ score for the scheduled examination attempt.

If a student requires accommodation, a valid Student Accommodation Form from the Resource Center for Persons with Disabilities (RCPD) must be presented to the COM Clerkship Team at least seven days in advance of the COMAT examination date.

ROTATION EVALUATIONS

Attending Evaluation of Student

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

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

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

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

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

Student Evaluation of Clerkship Rotation

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

Unsatisfactory Clinical Performance

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

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

CORRECTIVE ACTION

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

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

1. Quizzes

The student who fails to achieve an 80% on each weekly quiz with two attempts will be allowed to take a comprehensive final examination that will be a random selection of related 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.

2. Mid Rotation Evaluation

Students that do not successfully complete and upload their mid rotation evaluation by 11:59 pm the third 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 and Shift Schedule

The student who fails to turn in required paperwork, who has a verifiable reason 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 NGR to Pass, pending the Attending Evaluation of Clerkship Student and, if applicable, score on his/her COMAT retake).

As determined by the IOR, the student will receive an N grade for the course if all assignments and the corrective action process are **not completed** successfully within 14 days after the last day of rotation at 11:59pm (except for the Attending Evaluation). Additionally, a letter of unprofessional behavior for late submission of assignments will be sent to the MSUCOM Spartan Community Clearinghouse.

The student must complete the COMAT exam at the next available scheduled time after completion of the second or third IM rotation. If this is not IM 660 then the grade for IM 660 will remain NGR until the final rotation is completed and the exam is taken. It is hoped that the student's schedule will allow IM 660 to be taken after the general inpatient and outpatient rotations to facilitate and maximize learning for the student. **This only applies to students who have IM 658 scheduled after 650 and 660.**

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- 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 outpatient IM rotation, students will rotate as a part of the medical team at a primary care office, which may or may not have additional time spent on the attending's service in the hospital. The students will collaborate 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 office notes and begin to develop a basic assessment and plan for the patients they care for.

Medical students are expected to participate in direct patient care in the office, 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 didactics as assigned.

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 professional behavior is maintained. Outward appearance is particularly 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, and are not typically appropriate for the office setting.

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.

MSUCOM Clinical Suggestions:

- 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 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 particularly 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 necessary for successful program completion. This policy will define the policy and procedures regarding absences for clerkship activities. [Clerkship-Absence-Policy.pdf \(msu.edu\)](#)

POLICY FOR MEDICAL STUDENT SUPERVISION

The MSUCOM curriculum includes required clinical experiences in a variety of clinical learning environments. The Medical Student Supervision Policy outlines all supervision agreements and expectations. [Clerkship Medical Student Supervision Policy.pdf](#)

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. <https://osteopathicmedicine.msu.edu/current-students/student-handbook>.

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. <https://osteopathicmedicine.msu.edu/about-us/common-ground-professionalism-initiative>

MEDICAL STUDENT RIGHTS AND RESPONSIBILITIES

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

MSU EMAIL

MSU email is the official communication from faculty and staff to students and students are responsible for checking it daily and maintaining their MSU email accounts 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 DO 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. <https://osteopathicmedicine.msu.edu/current-students/student-handbook>.

DUTY HOURS AND FATIGUE MITIGATION

The accreditation standards for graduate medical education programs include restrictions on the duty hours of residents. Additionally, institutions are expected to promote a clinical learning environment in which duty hours are monitored and strategies exist to mitigate the effects of fatigue. [Clerkship Duty Hours and Fatigue Mitigation Policy.pdf](#)

STUDENT EXPOSURE PROCEDURE

A protocol 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 here:

<https://osteopathicmedicine.msu.edu/current-students/clerkship-medical-education/injury-and-property-damage-reports>

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

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.

NGR/No Grade Reported – means that a final grade ('Pass' or 'No Grade') cannot be determined due to one or more missing course requirements. The NGR 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 'NGR' grade will NOT remain on a student's transcript.

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

N Grade Policy

Students who fail this rotation will have to repeat the entire rotation and fulfill all (clinical and academic) requirements.

STUDENT ACCOMMODATION LETTERS

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 an Accommodation Letter. Students must present their letter 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 letter 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

Requirement	Submission Method	Honors Designation	High Pass	Pass	No Grade Reported	No Pass
View the nine modules online. Take end of module Quiz after completing each module	Completed in D2L.	Completed by 11:59 pm the last Sunday of the Rotation with a 90% score cumulative score for all quizzes with two attempts available.	Completed by 11:59 pm the last Sunday of the Rotation with an 85% score cumulative score for all quizzes with two attempts available.	Completed by 11:59 pm the last Sunday of the Rotation with an 80% score cumulative score for all quizzes with two attempts available.	Will be the conditional grade until all requirements of this rotation are met.	Failure to complete and submit within 14 days from the end of the rotation.
Mid Rotation Evaluation Form	Completed in D2L	Completed 100% per instruction above and uploaded by 11:59 pm the third Sunday of the rotation.	Completed 100% per instruction above and uploaded by 11:59 pm the third Sunday of the rotation.	Completed 100% per instruction above and uploaded by 11:59 pm the third Sunday of the rotation.	Will be the conditional grade until all requirements of this rotation are met.	Failure to complete and submit within 14 days from the end of the rotation.
Student Daily Shift Schedule	Submitted into Dropbox in D2L	Completed 100% and uploaded by 11:59pm the last Sunday of the rotation. You must upload the schedule you worked. There is no standard form, and you can just upload the four-week calendar marking the shifts you worked.	Completed 100% and uploaded by 11:59pm the last Sunday of the rotation. You must upload the schedule you worked. There is no standard form, and you can just upload the four-week calendar marking the shifts you worked.	Completed 100% and uploaded by 11:59 pm the last Sunday of the rotation. You must upload the schedule you worked. There is no standard form, and you can just upload the four-week calendar marking the shifts you worked.	Will be the conditional grade until all requirements of this rotation are met.	Failure to complete and upload within 14 days from the end of the rotation.

IM 658 Core Internal Medicine Outpatient

Requirement	Submission Method	Honors Designation	High Pass	Pass	No Grade Reported	No Pass
COMAT Exam (Scored under course 660)	NBOME	In order to receive Honor's in IM 658, you must achieve an Honor's score on the COMAT.	In order to receive High Pass in IM 658, you must achieve a High Pass score on the COMAT.	Per IM 660 syllabus	Per IM 660 syllabus	Per IM 660 syllabus
Attending Evaluation of Clerkship Student	Attendings receive an automated email link connecting them to their assigned evaluation(s) within Medtrics, where they may access and submit the electronic form(s) directly	<ul style="list-style-type: none"> • Receives no "Below Expectations." • Receives no comments indicating below expectations of performance 	<ul style="list-style-type: none"> • Receives no "Below Expectations." • Receives no comments indicating below expectations of performance 	<ul style="list-style-type: none"> • Student may receive "Below Expectations" in up to one (1) subcategory. • Overall categories must receive "Meets Expectations" or "Exceeds Expectations" 	Will be the conditional grade until all requirements of this rotation are met	<ul style="list-style-type: none"> • Receives two (2) or more "Below Expectations" within the subcategory sections. • Receives comments that indicate below expectations of performance. • See Unsatisfactory Clinical Performance above
Student Evaluation of Clerkship Rotation	Can be accessed and submitted electronically by students within the dashboard of their Medtrics profiles	Completed 100% by 11:59 pm the last Sunday of the rotation	Completed 100% by 11:59 pm the last Sunday of the rotation	Completed 100% by 11:59 pm the last Sunday of the rotation	Will be the conditional grade until all requirements of this rotation are met.	Failure to complete and submit within 14 days from the end of the rotation



College of Osteopathic Medicine
MICHIGAN STATE UNIVERSITY

MID-ROTATION FEEDBACK FORM

Rotation Name: _____

Student Name: _____

Evaluator Name: _____

Evaluator Signature: _____

Date of review with Student: _____

- This assessment is based on:
 - My own observations and interactions with the student.
 - Feedback received from other faculty and/or resident supervisors.

- The student is progressing satisfactorily for their level of training:
 - YES
 - NO

If NO, please summarize areas needing improvement below:

- Overall comments on student performance

Strengths:	Areas of Improvement:

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

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