

OMM 602
**Osteopathic Principles and Practice
(OPP)**

CLERKSHIP CORE ROTATION SYLLABUS

Osteopathic Manipulative Medicine
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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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ROTATION REQUIREMENTS

REQUIREMENT	SUBMISSION METHOD (for submission due dates, refer to table at the end of the syllabus)
COMAT OPP Examination	Proctored OPP COMAT Exam
OMM Observed Encounter Forms	D2L Assignment Dropbox
OPP/OMM Recorded Lecture and Quiz	Watch recorded lecture and take quiz on D2L
Student Evaluation of Clerkship Course	Students will submit their course evaluation electronically at the conclusion of the course or when requirements are complete, by accessing the Medtrics system: https://msucom.medtricslab.com/users/login/ . Students will receive an automated email link connecting them to their assigned evaluation. Students can also access their pending evaluations on the 'Home' or 'Evaluations' tabs within their Medtrics accounts.

INTRODUCTION AND OVERVIEW

This syllabus provides an overview of rotation goals and objectives designed to help you gain an understanding of the breadth and scope of this subject. As you progress through the course, you will perform certain activities intended to help you meet the identified goals and objectives. Please make sure to review this syllabus in its entirety to ensure understanding of the format, syllabus content, and Michigan State University College of Osteopathic Medicine (MSUCOM) expectations. OMM 602 will encompass the longitudinal curricular elements for osteopathic principles and practices for the OMS Year 3.

COURSE SCHEDULING

Course Enrollment

- The student must be an active student at MSUCOM.

ROTATION FORMAT

This course is a longitudinal course giving the student the OMS 3 year to complete the requirements. It is designed to be completed while students are on rotation during the 3rd year of the curriculum.

GOALS AND OBJECTIVES

GOALS

1. The student will demonstrate knowledge in osteopathic principles and practices (OPP) and osteopathic manipulative medicine (OMM).
2. The student will demonstrate the ability to gather a thorough history and perform a physical examination utilizing OPP and OMM.
3. The student will be able to formulate a differential diagnosis incorporating OPP following a clinical encounter.
4. The student will demonstrate the ability to organize and accurately document the patient clinical encounter, including an osteopathic structural examination and osteopathic manipulative treatment (OMT).
5. The student will demonstrate the ability to perform clinically relevant OMT procedures following patient encounters.

OBJECTIVES

The student will be required to demonstrate the ability to apply:

1. Osteopathic principles and practices and basic medical knowledge to situations and patient presentations encountered in the clinical settings.
2. Osteopathic principles and practices, knowledge, and clinical problem-solving ability related to physician tasks.
3. Knowledge and clinical problem-solving as related to the fundamental osteopathic medical competency domains including OPP and OMT, medical knowledge, professionalism, patient care, interpersonal and communication skills, practice-based learning and improvement, and systems-based practice.
4. Osteopathic principles and practices in commonly encountered patient care scenarios.

COMPETENCIES

The student will be required to demonstrate the ability to take a patient's history, perform a physical exam, diagnose, and manage selected patient presentations and clinical situations utilizing:

1. **Osteopathic concepts and philosophy**
2. **Osteopathic structural diagnosis**
3. **Osteopathic manipulative treatment methods:** such as strain-counter strain, muscle energy, myofascial release, high velocity low amplitude (HVLA), soft tissue, lymphatic technique, cranial osteopathic manipulative medicine, articular techniques, balanced ligamentous tension, ligamentous articular strain, facilitated positional release, still technique, visceral technique, and Chapman reflexes.

Throughout these three categories, students will demonstrate the ability to:

- Discuss the basic principles of the osteopathic philosophy and describe the impact on the health care delivery of osteopathic physicians.

- Discuss the scientific knowledge supporting the utilization of OPP and OMT, including the basic science of the mechanisms of OMT and somatic dysfunction, and the current evidence base for the clinical application of OMT.
- Define the types of physical examination findings consistent with somatic dysfunction.
- Define and describe the types of somatic dysfunction found within the ten body regions: head, cervical, thoracic, rib, lumbar, pelvic, sacral, abdominal, upper extremity, and lower extremity body regions.
- Describe the symptoms and physical findings consistent with viscerosomatic, somatovisceral and somatosomatic reflexes.
- Define and describe indirect and direct types of OMT, including articulatory, strain-counter strain, cranial osteopathic manipulative medicine, muscle energy, high velocity low amplitude (HVLA), and soft tissue and myofascial release techniques.
- Discuss the indications and contraindications of different types of OMT.
- Discuss the relative value, advantages, and disadvantages of different types of OMT.
- Correctly diagnose somatic dysfunction within the ten body regions, prioritize a differential diagnosis and develop an appropriate care plan.
- Effectively communicate with patients and their families regarding alternatives to OMT and the risks and benefits associated with the use of OMT.
- Maintain the safety and dignity of the patient while administering OMT.
- Identify viscerosomatic relationships and the role of the musculoskeletal system in health and disease by performing a structural examination and documenting findings reflective of this relationship.
- Show sensitivity to the diversity of patients as it may impact the presentation of somatic and/or visceral dysfunctions.

COLLEGE PROGRAM OBJECTIVES

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

REFERENCES

REQUIRED STUDY RESOURCES

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

If you encounter any issues accessing this D2L course, please email the CA (on the title page of this syllabus). It is your responsibility to make sure you have access to the course D2L page on the first day of the course.

SUGGESTED STUDY RESOURCES

1. Greenman's Principles of Manual Medicine, DeStefano 6th, 2024
 - o Available at: <https://osteopathicmedicine-lwwhealthlibrary-com.proxy1.cl.msu.edu/book.aspx?bookid=3394>
2. An Osteopathic Approach to Diagnosis and Treatment, DiGiovanna 4th, 2021
 - o Available at <https://meded-lwwhealthlibrary-com.proxy1.cl.msu.edu/book.aspx?bookid=2969>
3. Atlas of Osteopathic Techniques, Nicholas 4th, 2023
 - o Available at: <https://meded-lwwhealthlibrary-com.proxy1.cl.msu.edu/book.aspx?bookid=1629>
4. Foundations of Osteopathic Medicine AOA 2018
 - o Available at: <https://meded-lwwhealthlibrary-com.proxy1.cl.msu.edu/book.aspx?bookid=2582>
5. Glossary of Osteopathic Terminology AACOM 2011
 - o Available at: <https://www.aacom.org/searches/search-results?keywords=Glossary%20of%20Osteopathic%20Terminology%20AACOM%202011>
6. Osteopathic Core Competencies for Medical Students AACOM 2012
 - o Available at: <https://www.aacom.org/searches/search-results?keywords=Osteopathic%20Core%20Competencies%20for%20Medical%20Students%20AACOM>
7. Somatic Dysfunction in Osteopathic Family Medicine, Nelson 2e 2015
 - o Available at <https://meded-lwwhealthlibrary-com.proxy1.cl.msu.edu/book.aspx?bookid=1015>

QUIZZES

After viewing the OPP/OMM recorded lecture, there will be a ten-question quiz to be taken on D2L. Students may be eligible for revision to retake a failed quiz only during the course. The revision must be completed before the regularly scheduled end of the course.

COMAT EXAM INFORMATION

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 OMM 602 will be taken by the student on the last Friday of a rotation as scheduled.

- 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 Accommodation Letter 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.

Students must register to take the OPP COMAT exam during a month in which they do not already have another COMAT exam scheduled. They may begin taking the exam at the start of their OMS 3 year. It is highly recommended that the exam be taken prior to the COMLEX USA Level 2 CE. Students are required to achieve a required passing score of 83 or above. If a student does not obtain the required pass score on their first examination attempt, they will be given one additional attempt to pass. The student must contact the Instructor of Record prior to scheduling the second attempt. A no show will be counted as a failed attempt. Students unable to obtain the required passing score of 83 or above after 2 examination attempts, will receive an "N" Grade for OMM 602.

ROTATION EVALUATIONS

Student Evaluation of Clerkship Course

Students will submit their course evaluation electronically at the conclusion of the course or when requirements are complete, by accessing the Medtrics system: <https://msucom.medtricslab.com/users/login/>. Students will receive an automated email link connecting them to their assigned evaluation. Students can also access their pending evaluations on the 'Home' or 'Evaluations' tabs within their Medtrics accounts.

REVISION

The revision process will occur during the regularly scheduled course. If a student does not successfully complete the course requirements (ex. an observed encounter form **OR** failure of the OPP/OMT recorded lecture quiz), the student will be permitted to go through a revision process during the regularly scheduled course. The student is responsible for contacting the Course Assistant (on the title page of this syllabus). The student will then be required to

complete the revision determined by the Instructor of Record within the regularly scheduled timeline of the course.

In the event of a failing score earned on the student's **first** attempt of a COMAT subject exam, the revision for the COMAT retake may extend beyond the regularly scheduled end of the course.

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 revision process.

Additionally, in the event of a failing score earned on the student's first attempt of a COMAT subject exam, the revision for COMAT retake may extend beyond 14 days.

If a student **successfully completes** the revision 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 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 revision process are **not completed** successfully within 14 days after the last day of rotation at 11:59pm. Additionally, a letter of unprofessional behavior for late submission of assignments will be sent to the MSUCOM Spartan Community Clearinghouse.

COURSE GRADES

All rotation requirements must be completed to determine a final grade for the course. Students are required to ensure their rotation requirements are completed and submitted correctly.

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.

A grade of honors in OMM 602 will be designated to students who achieve a score in the top 10% of the class on the first attempt on the OPP COMAT examination by August 1 of the OMS 3 year **AND** receive "Your SOAP Note(s) does not need any significant changes" feedback on **BOTH** observed encounter forms on the **first** submission **AND** complete the OPP/OMM recorded lecture and quiz.

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.

A grade of High Pass in OMM 602 will be designated to students who achieve a score in the top 20% of the class on the first attempt on the OPP COMAT examination by August 1 of the OMS 3 year **AND** receive "Your SOAP Note(s) does not need any significant changes" feedback on **BOTH** observed encounter forms on the **first** submission **AND** complete the OPP/OMM recorded lecture and quiz.

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 course will have to repeat a portion of, or all of the course requirements, at the discretion of the IOR.

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. [Policy - Clerkship Absence 2025.pdf](#)

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. Students are responsible for responding to email in a timely manner or as otherwise outlined in course communication.

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.

Please Note: Student D2L email addresses must be forwarded to your MSU email account.

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.

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

*For any below information requiring an item be uploaded to D2L, students must ensure it is put into the correct folder within the correct section for their course.

Requirement	Submission Method	Honors Designation	High Pass	Pass	Extended Time	No Pass
COMAT OPP Examination	Proctored OPP COMAT Exam	Obtain a score in the top 10% of the class on the first attempt on the OPP COMAT examination by Aug. 1 of the OMS 3 year.	Obtain a score in the top 20% of the class on the first attempt on the OPP COMAT examination by Aug. 1 of the OMS 3 year.	Obtain a score of ≥ 83 on one COMAT examination by Aug 1 of the OMS 3 year.	Will stand as the conditional grade until all requirements are met OR Aug 1, whichever occurs first.	Failure to score ≥ 83 in two attempts on the OPP COMAT examination by Aug 1 of the OMS 3 year.
OMM Observed Encounter Forms	D2L Assignment Dropbox	Receive "Your SOAP Note(s) does not need any significant changes" feedback on BOTH Observed Encounter Forms on the first submission to be completed by July 18 of the OMS 3 year.	Receive "Your SOAP Note(s) does not need any significant changes" feedback on BOTH Observed Encounter Forms on the first submission to be completed by July 18 of the OMS 3 year.	Satisfactory completion ("Your SOAP Note(s) is acceptable") on 2 (two) OMM Observed Encounter Forms to be completed by July 18 of the OMS 3 year.	Will stand as the conditional grade until all requirements are met OR July 18, whichever occurs first.	Failure to satisfactorily complete 2 (two) OMM Observed Encounter Forms by July 18 of the OMS 3 year.
OPP/OMM Recorded Lecture and Quiz	Watch recorded lecture and take quiz on D2L	View the OPP/OMM lecture online (recorded). Pass the 10-question quiz with a score of $\geq 80\%$. To be completed by July 31 of the OMS 3 year.	View the OPP/OMM lecture online (recorded). Pass the 10-question quiz with a score of $\geq 80\%$. To be completed by July 31 of the OMS 3 year.	View the OPP/OMM lecture online (recorded). Pass the 10-question quiz with a score of $\geq 80\%$. To be completed by July 31 of the OMS 3 year.	Will stand as the conditional grade until all requirements are met OR July 31, whichever occurs first.	Failure to view the online (recorded) OPP/OMM lecture. Failure to score $\geq 80\%$ in two attempts on the quiz by July 31 of the OMS 3 year.

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Requirement	Submission Method	Honors Designation	High Pass	Pass	Extended Time	No Pass
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 day of the course	Completed 100% by 11:59 pm the last day of the course	Completed 100% by 11:59 pm the last day of the course	Will be the conditional grade until all requirements of this course are met.	Failure to complete and submit within 14 days from the end of the course