



Osteopathic Manipulative Medicine IV

OM8112

Course Syllabus

CLASS OF	2026
DATES	7/7/25 – 4/24/26
CREDIT HOURS	2 Credit Hours
CONTACT HOURS	30 Hours
ASSESSMENT TOOLS	<p>Completion of 3 Case Modules with 20 Question Quiz per module (Due 4/3/2026)</p> <p>Completion of 10 OMM Case Logs (Due 12/19/2025)</p> <p>Completion of 10 OMM Case Logs (Due 4/3/2026)</p> <p>Completion of 1 Manual Medicine Literature Search Assignments (Due 4/3/2026)</p> <p>Interprofessional Education [IPE] Assignment (1/30/2026)</p>
TRANSCRIPT CATEGORIES	Pass/Fail
LOCATION	LEO (modules, manual medicine literature search, and IPE assignment), New Innovations (case logs)
COURSE DIRECTOR	Victoria Chang, D.O.
DEPARTMENT CHAIR	Jonathon Kirsh, DO
COURSE COORDINATOR(S)	Valerie Morales

Course Description

This course builds upon the foundation of the principles and philosophies of osteopathic medicine established during the first three years of OMM courses. It will expand the student's osteopathic knowledge base through the application of new and previously learned techniques into specific disease examples. The format will include discussion of patient cases with the integration of osteopathic principles and practices. This course will include integration of the clinical exam with osteopathic diagnosis and treatment skills.

Three modules consisting of three to four cases on various osteopathic topics need to be completed online with a satisfactory passing of the associated online question assessments for each module.

Students are expected to treat patients with osteopathic manipulation throughout the year. Logs will be maintained and will demonstrate a minimum of ten (10) OMM patient encounters per semester for a total of twenty (20) encounters for the academic year. Students are required to perform one manual medicine literature search assignment and provide the citation and abstract.

Failure to complete any of the above components, by their respective deadlines, will result in a corrective action as determined by the course director. When a student does not meet expectations for a clerkship/course as defined in clerkship syllabi, the College may require a student to engage in corrective action to remedy the deficient academic grading requirements. The opportunity to engage in corrective action for the one element failed is at the discretion of the clerkship director of the specialty. This may occur at the end of a clerkship or in the middle of a clerkship/course.

If a student successfully completes the corrective action process, as determined by the Clerkship Director, the student will receive credit for the deficient academic grading requirement(s) and be eligible for a change in rotation grade (from I to P). If all assignments within the corrective action process are not completed successfully by the deadline the student will receive a failed grade (F) for the clerkship and will be referred to SPC for Failure of the Course.

This course is a two-credit course and the grading is pass/fail. It will be documented on the student's transcript.

All Year 4 requirements must be successfully completed to graduate. The need to repeat any failed courses/rotations may result in a delay in graduation.

Course Goals

Fourth Year Osteopathic Manipulative Medicine Course

The goal of the Fourth Year Osteopathic Manipulative Medicine Course is to have each student:

1. Confidently explain the theories and tenets of osteopathic principles;
2. Define and diagnose somatic dysfunctions,
3. Demonstrate proficiency in palpation skills;
4. Safely administer osteopathic manipulative treatment;
5. Successfully integrate osteopathic principles and treatment into the clinical patient encounter.

Course Objectives

Objective	Programmatic Educational Objectives	AOA Core Competencies
1. Recognize the common clinical presentation and important historical factors relative to the selected module's patient scenario.	1, 2	2, 3
2. For the module selected, understand the anatomy, physiology, and pathophysiology of that disease process and consider these in the differential diagnosis in that patient presentation.	1, 2	1, 2, 3
3. Delineate the diagnostic tests that may be used to evaluate the patient in the specific scenario.	1, 5	2
4. Explain the rationale for using OMM for the patient scenario presented in the module.	1, 2, 5	1, 2
5. Successfully demonstrate the osteopathic techniques utilized for the case presented.	1, 2, 3, 4	1, 2, 4, 5
6. Understand how OMM is integrated into the care of common clinical conditions such as the pregnancy, upper respiratory infections, headaches, and joint pain.	1, 2, 3, 4, 5, 7	1, 2
7. Explain how OMM can be used in common patient populations such as the hospitalized patient, the athlete, the surgical patient, and the elderly.	1, 2, 3, 4, 5, 7	1, 2
8. Accurately document a patient encounter that involves OMM.	1, 2, 4	6

Office Hours

Questions concerning the course may be discussed individually by making an appointment with the Course Director, Dr. Chang, via email. The Course Director is generally available by appointment only.

Course Director:

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Required Resources and Equipment

Textbooks:

- Somatic Dysfunction in Osteopathic Family Medicine, Nelson and Glonek, 2nd Ed., 2015
- Atlas of Osteopathic Techniques, Nicholas and Nicholas, 4th Ed., 2022
- Bates' Guide to Physical Examination and History Taking, Bickley L., 12th Ed., 2017
- The 5-Minute Osteopathic Manipulative Medicine Consult, King Channell and Mason, 2nd Ed., 2020
- Foundations of Osteopathic Medicine, Seffinger M., 4rd Ed., 2019

Equipment:

Portable Osteopathic Manipulative Treatment Table

Recommended Resources and Equipment

Textbooks:

- Greenman's Principles of Manual Medicine, DeStefano L., 5th Ed., 2017
- Osteopathic Considerations in Systemic Dysfunction, Kuchera and Kuchera, 2nd Ed., 1994
- Osteopathic Techniques, Gustowski, Budner-Gentry, Seals, 2017.
- DiGiovanna EL, Amen CJ, Burns DK. *An Osteopathic Approach to Diagnosis and Treatment, 4e.* Lippincott Williams & Wilkins, a Wolters Kluwer business; 2021.

Equipment:

Flexible spine with sacrum/pelvis

Delivery of Course Information and Organization

This course utilizes a clinically focused program developed by the KCOM that is intended to integrate the diagnosis and treatment of somatic dysfunction into the broad spectrum of medical practice. The purpose of this curriculum is to provide an in-depth understanding of the relevance of somatic dysfunction and its appropriate treatment in the clinical management of patients from infants and children to end-of-life. A broad spectrum of clinical areas, including ENT, pulmonology, cardiology, neurology, surgery, obstetrics and gynecology and psychiatry, are given consideration. Special emphasis will be placed on the top outpatient clinical diagnoses coded by osteopathic physicians as documented by the National Ambulatory Center Database and those diagnoses that respond well to adjunctive OMT.

OPP Modules and Online Assessments

Students are required to successfully complete three (3) modules in order to complete this course. These independent systems-based or specialty-based modules will review anatomy, pathophysiology, diagnosis, and treatment options including OMM for each covered diagnosis.

Following the completion of the review of module materials, the student will complete an electronically delivered, timed, written assessment of 20 case-based multiple-choice questions. The quiz will focus on the material covered in the module. A score of 70% or better on the online assessment must be achieved to receive credit for the module. **In case of failure, the student is required to take another test, with different questions, on the same module material. In case of a second failure of an individual module, the student will be given additional assignments by the course director. If these additional assignments**

are not completed, the student will fail the course. Online module assessments may be completed in any order. Completion of ten (10) OMT case logs in New Innovations are due to be completed by December 19, 2025. Completion of three (3) modules and their assessments are due, along with the manual medicine literature review search assignment and the remaining ten (10) OMT case logs, on April 3, 2026.

Suggested Order for Modules

“Semester 7/8”: July 7, 2025 – April 3, 2026

Module 1 – Ob/Gyn

1. Osteopathic approach to the dysmenorrhea
2. Osteopathic approach to back pain in pregnancy
3. Osteopathic approach to carpal tunnel in pregnancy

Clinical Research Reading Assignment

Ob/Gyn Assessment

Module 2 – Surgery

1. Osteopathic approach to the postoperative ileus
2. Osteopathic approach to atelectasis
3. Osteopathic approach to the post-thoracotomy pain

Clinical Research Reading Assignment

Surgery Assessment

Module 4 - Musculoskeletal 3

1. Osteopathic approach to De Quervain’s Tenosynovitis
2. Osteopathic approach to epicondylitis
3. Osteopathic approach to the shoulder enthesopathies
4. Osteopathic approach to fibromyalgia

Clinical Research Reading Assignment MKS

3 Assessment

Manual Medicine Literature Search

One (1) search of the medical literature to investigate the medical evidence for the use of manual medicine for assigned clinical conditions and clinical settings will be done during the fourth year. **Acceptable manual medicine disciplines include osteopathic manipulative medicine, osteopathic manual therapy, chiropractic, massage, physiotherapy, and physical therapy.**

“Semester 7/8” (Due 4/3/2026)

Manual Medicine Literature Search Assignments can be done on any topic, see list of previously suggested topics:

- The use of manual medicine in the care of lower extremity (hip and distal) musculoskeletal conditions
- The use of manual medicine in the care of headaches (migraine, tension, cluster, or cervicogenic)
- The use of manual medicine in the care of pediatric conditions (age <17)
- The use of manual medicine in the care of conditions affecting otolaryngological conditions (otitis media, BPPV, upper respiratory infections, TMJ dysfunction, or other ENT conditions)
- The use of manual medicine in the care of pediatric conditions (age <17)
- The use of manual medicine in the care of pregnant patients.
- The use of manual medicine in the care of conditions affecting the GI system.
- The use of manual medicine in the care of conditions affecting the Cardiovascular or Pulmonary systems.

Search the peer-reviewed medical literature for clinical research **supporting** the use of manual medicine in the care of the assigned conditions. Research articles may include case reports, case series, retrospective or prospective clinical studies, systematic reviews, and meta-analyses. Acceptable manual medicine disciplines include osteopathic manipulative medicine, osteopathic manual therapy, chiropractic, massage, physiotherapy, and physical therapy.

The publication date of the literature must be 1990 or more recent.

Assignment requires the following to be submitted to Leo:

1) Properly formatted **citation** that includes author(s), title, journal, year, edition, and page numbers (see citation format below)

2) **Abstract from the article**

Proper citation format is Author(s). Title. Journal. Year. Volume(number): page numbers

Example: Baltazar GA, Betler MP, Akella K, Khatri R, Asaro R, Chendrasekhar A. Effect of osteopathic manipulative treatment on incidence of postoperative ileus and hospital length of stay in general surgical patients. *Journal of American Osteopathic Association*. 2013. 113(3):204-209

Manual Literature Search Due April 3, 2026.

Please note citations of literature summaries, such as EMedicine, Medscape, and Up-to-Date are NOT acceptable for this assignment. The citations of any OPP module manual medicine reading assignment are not acceptable. Only citations of the original peer-reviewed research article will be accepted.

Patient Encounter and Procedure Logs

The log is one form of evaluation in the OMM course used to assess students' participation with osteopathic treatment during their clerkship rotations. Medical students are REQUIRED to perform osteopathic manipulation on 10 patients per semester (20 total) throughout the OMM course. The treatments may be performed on patients, staff, family members, or fellow students. Supervision by an attending physician is encouraged but not required. These treatments must be documented in New Innovations with the student noting the age of the patient, date of treatment, gender of the patient, type of patient (clinical patient (P) or volunteer (V)), chief complaint(s), somatic dysfunction, body regions treated, and OMT technique used. Body regions are: Head, Cervical, Thoracic, Lumbar, Sacrum, Pelvis, Abdomen, Ribs, Upper Extremity, and Lower Extremity. **Failure to document 10 OMM treatments by 12/19/2025 may result in corrective action per the course director and failure to document the remaining 10 cases by 4/3/2026 (for a total of 20 cases) may result in failure of the course.**

InterProfessional Education Assignment

The students must discuss an interaction had with someone in another profession while working in patient-care that positively impacted the care and outcome of a patient. The professions can include: physical therapists, pharmacists, nurses, social workers, nutritionists, orthotic/medical device specialists, EMT's, wound-care technicians, etc. The Word document can contain no less than 200 words and must be spell-checked and grammatically correct. This assignment is due to be completed and submitted through Leo by January 30, 2026.

Grading Information

Elements of Rotation Grading

- OMM online module quizzes (3 total)
- Patient logs: 20 OMM patients required (10 OMM patients per semester)
- OMM Literature Search (1 total)
- InterProfessional Education [IPE] Assignment

Students must complete a quiz that corresponds to each of the modules that they are completing in LEO. The quizzes are 20 questions each and they must answer 14 out of 20 questions correctly to receive credit. **Students can only take the quiz once. The quiz close 30 minutes after it is opened. If they score less than an 70% (14/20 questions correct) the student will be required to take another test with different questions on the same module material. In the event of a failed quiz, the students must inform the course coordinator so that a second quiz can be made available to them. In case of a second failure of an individual module, the student will be given additional assignments by the course director. If these additional assignments are not completed, the student will fail the course and be referred to the SPC.**

Course Communication

Students are expected to monitor their Burrell email and are responsible for all communications sent to their official email address.

- For administrative aspects of the course, contact Valerie Morales.
- For content questions relating to a specific lecture or topic, contact the course director Dr. Chang, or the relevant presenting faculty member.
- For absences/missed exams (see excused absence information in the student clerkship manual)

Policies and Procedures

Information regarding course grades, attendance (including excused absences), exam procedures, remediation, appeals, acceptable use of technology, honor code, professional attire, and related policies are stated in the current Student Handbook. Policies regarding non-discrimination, accommodations for disabilities, and Title IX are also referenced within the Student Handbook. All policies and procedures stated therein will apply during this course.

The [Student Handbook](#) may be accessed through the Burrell website.

For information regarding emergency or inclement weather, refer to the [Campus Safety and Security page](#) on the Burrell website.

Statement Regarding Reservation of Power

The curriculum, assignments, schedule, syllabus, and any information contained within the course can be altered or changed at any time. In the event of any alterations during the course, students will be informed officially through their Burrell email. It is the student's responsibility to obtain the changes or notices even if absent from class.

Appendix

A. Programmatic Level Educational Objectives

Graduates of the Burrell College Doctor of Osteopathic Medicine degree program will be able to:

1. Integrate knowledge and skills acquired from the biomedical, clinical, social, and behavioral sciences to provide patient care in a supervised setting.
2. Demonstrate competence in the skills of osteopathic manipulative treatment and the application of osteopathic philosophy in patient care.
3. Demonstrate professionalism, characterized by honesty, integrity, ethical behavior, empathy, and responsibility.
4. Communicate effectively with patients, families, faculty, peers, and other members of the healthcare team.
5. Critically appraise, evaluate, and apply scientific evidence to inform patient care and research.
6. Demonstrate awareness of the roles and interactions of professionals within the healthcare system and identify resources to optimize patient care at the individual and community levels.
7. Identify the specific healthcare needs of diverse populations and the ways in which the medical community responds.

B. AOA Osteopathic Core Competencies

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