



Osteopathic Manipulative Medicine III

OM7112

Course Syllabus

CLASS OF	2026
DATES	7/8/24 – 6/20/25
CREDIT HOURS	2.5 Credit Hours
CONTACT HOURS	Total 37.5 hours
ASSESSMENT TOOLS	<ul style="list-style-type: none"> • Completion of 8 Case Modules with 20 Question Quiz per module (4 Modules due 12/20/2024, 4 Modules due 6/12/2025) • Completion of 20 OMM Case Logs (10 logs due 12/20/2024, 10 logs due 6/12/2025) • COMAT Examination performance (5/2/2025) • Completion of 2 Manual Medicine Literature Search Assignments (1 Due 12/20/2024, 1 Due 6/12/2025) • Attendance of 2 OMM labs (on-campus) 1 on 11/8/2024, 1 on 4/11/2025
TRANSCRIPT CATAGORIES	Pass/Fail
LOCATION	Burrell COM (workshops), LEO (modules and manual medicine literature search), New Innovations (case logs)
COURSE DIRECTOR	Victoria Chang, DO
DEPARTMENT CHAIR	Jonathon Kirsh DO
COURSE COORDINATOR(S)	Whitney Cano

Course Description

This course builds upon the foundation of the principles and philosophies of osteopathic medicine established during the OMM I-II 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 interactive 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. Eight modules consisting of three to four cases with associated reading assignment on various osteopathic topics need to be completed online with a satisfactory passing of the associated online question assessments for each module.

The course will require two (2) mandatory on-campus sessions, scheduled once in the fall term and once in the spring term, for students to benefit from face to-face interactions, and to receive hands-on instruction with OMM Faculty. Those assigned to the Space Coast RAC will receive their in-person training in the Space Coast RAC in the fall and spring.

Students are also expected to treat patients with osteopathic manipulation throughout the year. Logs will be maintained and will demonstrate a minimum of ten OMM patient encounters per semester for a total of 20 patient encounters. Students are also required to perform a manual medicine literature search each semester and upload 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 2.5 credit course and the grading is pass/fail. It will be documented on the student's transcript.

Course Goals

Third Year Osteopathic Manipulative Medicine Course

The goal of the Third 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	<u>Programmatic Educational Objectives</u>	<u>AOA Core Competencies</u>
#1 Recognize the common clinical presentation and important historical factors related to patients presenting with cardiovascular, respiratory, gastrointestinal, musculoskeletal, HENT, pediatric and neurologic conditions.	1, 2	2, 3
#2 Formulate a differential diagnosis for each of the above clinical conditions.	1, 2	1, 2, 3
#3 Explain the diagnostic tests for the above clinical conditions.	1, 4	2
#4 Detail the medical management for the above clinical conditions.	1, 4, 5, 6, 7	1, 2
#5 Explain the rationale for utilizing OMM in the care of each of the patient scenarios listed above.	1, 2, 4, 7	1, 2
#6 Successfully demonstrate the osteopathic techniques which are useful in the aforementioned clinical cases.	1, 2, 3, 4	1, 2, 4, 5
#7 Accurately document a patient encounter that involves OMM.	1, 3	6

Office Hours

Questions concerning the course may be discussed individually by making an appointment with the Course Director, Dr. Chang, by phone (575) 674-2382, or via email at vchang@burrell.edu. The Course Director is generally available by appointment only.

Course Director:

Victoria Chang, DO
vchang@burrell.edu
(575) 674-2382
3501 Arrowhead Drive, Suite 334
Las Cruces, NM 88001

Course Coordinator:

Whitney Cano
wcano@burrell.edu
(575) 674-2348
3503 Arrowhead Drive
Las Cruces, NM 88001

Faculty name	Email address
Adrienne Kania, DO, FAAO	akania@burrell.edu
Daniel Dodson, DO	ddodson@burrell.edu
Jonathon Kirsh, DO	jkirsh@burrell.edu
John Capobianco, DO FAAO	jcapobianco@burrell.edu
Brett Picciotti, DO	bpicciotti@burrell.edu

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., 4th Ed., 2019
- Foundations of Osteopathic Medicine, Chila A., 3rd Ed., 2011

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.

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 eight (8) modules in order to complete this course. Prior to starting these modules, "Introduction to OPP," with an assessment, must be completed. These independent systems-based or specialty-based modules will review anatomy, pathophysiology, diagnosis, and treatment options including OMM for each covered diagnosis. Within an individual semester, modules may be completed in any order.

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 on the same module. In case of a second failure of an individual module, the student will be given additional assignments by the course director.** Online module assessments for each semester may be completed in any order. Completion of four (4) modules and their assessments are due, along with the first manual medicine literature review search assignment and 10 OMT case logs, on December 20th, 2024. The other four (4) modules and their assessments are due, along with the second manual medicine literature review search assignment and the remaining 10 OMT case logs, on June 12th, 2025.

Suggested Order for Modules

“Semester 5”: July 8 – December 20, 2024

Introduction to OPP Assessment is **required to be completed by August 2, 2024, prior to starting any module**

Module 1 – Cardiovascular

1. Osteopathic approach to lymphedema
 2. Osteopathic approach to myocardial infarction
 3. Osteopathic approach to congestive heart failure
- Clinical Research Reading Assignment
Cardiovascular Assessment

Module 2 – Respiratory

1. Osteopathic approach to pneumonia
 2. Osteopathic approach to COPD patient
 3. Osteopathic approach to asthma
- Clinical Research Reading Assignment
Respiratory Assessment

Module 3 – Gastrointestinal

1. Osteopathic approach to constipation
 2. Osteopathic approach to GERD
 3. Osteopathic approach to irritable bowel syndrome
- Clinical Research Reading Assignment
Gastrointestinal Assessment

Module 4 – Musculoskeletal 1

1. Osteopathic approach to tension headaches
 2. Osteopathic approach to mechanical neck pain
 3. Osteopathic approach to mechanical low back pain
 4. Osteopathic approach to scoliosis
- Clinical Research Reading Assignment
Musculoskeletal 1 Assessment

“Semester 6”: January 6 – June 12, 2025

Module 1 – HENT

1. Osteopathic approach to vertigo (BPPV)
 2. Osteopathic approach to URI
 3. Osteopathic approach to TMJ pain
- Clinical Research Reading Assignment
HENT Assessment

Module 2 – Pediatric

1. Osteopathic approach to plagiocephaly
 2. Osteopathic approach to torticollis
 3. Osteopathic approach to colic
 4. Osteopathic approach to otitis media
- Clinical Research Reading Assignment
Pediatric Assessment

Module 3 – Musculoskeletal 2

1. Osteopathic approach to ankle sprains
 2. Osteopathic approach to knee osteoarthritis
 3. Osteopathic approach to plantar fasciitis
 4. Osteopathic approach to trochanteric bursitis
- Clinical Research Reading Assignment
Musculoskeletal 2 Assessment

Module 4 – Neurology

1. Osteopathic approach to migraine headaches
 2. Osteopathic approach to carpal tunnel syndrome
 3. Osteopathic approach to Thoracic outlet syndrome
 4. Osteopathic approach to cervical and lumbar radiculopathies
- Clinical Research Reading Assignment
Neurology Assessment

Manual Medicine Literature Search

Each semester will include a required search of the medical literature to investigate the medical evidence for the use of manual medicine for assigned clinical conditions and clinical settings.

Acceptable manual medicine disciplines include osteopathic manipulative medicine, osteopathic manual therapy, chiropractic, massage, physiotherapy, and physical therapy. Articles not matching these criteria will be rejected.

“Semester 5” (Due 12/20/2024)

Manual Medicine Literature Search Assignment:

- **Student Last Name Begins with A-F:** The use of manual medicine in the care of lower extremity (hip and distal) musculoskeletal conditions
- **Student Last Name Begins with G-L:** The use of manual medicine in the care of headaches (migraine, tension, cluster, or cervicogenic)
- **Student Last Name Begins with M-R:** The use of manual medicine in the care of pediatric conditions (age <17)
- **Student Last Name Begins with S-Z:** 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)

“Semester 6” (Due 6/12/2025)

Manual Medicine Literature Search Assignment:

- **Student Last Name Begins with A-F:** The use of manual medicine in the care of pediatric conditions (age <17)
- **Student Last Name Begins with G-L:** The use of manual medicine in the care of pregnant patients.
- **Student Last Name Begins with M-R:** The use of manual medicine in the care of conditions affecting the GI system.
- **Student Last Name Begins with S-Z:** 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.

Publication date of the literature must be 1990 or more recent.

Assignment requires the following to be uploaded via the form located in LEO:

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

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

1st Manual Literature Search Due December 20th, 2024

2nd Manual Literature Search Due June 12th, 2025

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.

Attendance at Burrell College OMM Interactive Sessions

Attendance at both sessions is required, unless excused. If a student has received an excused absence, they will need to perform additional assignments as determined by the course director. If a student needs to obtain an excused absence for any reason, they need to follow the Burrell Clinical Education excused absence process. An unexcused absence from a required educational session will result in a failure of the course, and the student will report to the SPC.

The quality of the lab training experience is dependent upon both lab partners being present and participating in the day's activities. Tardiness, unexcused absences, and a lack of interest or participation are considered disruptive behavior. These place the student and their lab partner at an educational disadvantage and are viewed as unprofessional behavior. Attendance will be taken at the beginning of lab. The student has 15 minutes to sign in after the start of the lab session. Any person who has not signed in by that time will not be given credit for attending the session. **These sessions will be held on Friday, November 8, 2024 and Friday, April 11, 2025. The Space Coast RAC session will be held live, in the Space Coast RAC, on the same dates. The Space Coast students will remain in their RAC.**

Criteria for Opting Out of a Laboratory Technique

Physical exam and osteopathic diagnosis and treatment are kinesthetic skills that require hand-over-hand training as well as regular practice outside of class. All physical exam and osteopathic diagnosis and treatment laboratory experiences require mandatory attendance, as well as full participation in all associated activities and procedures. **Students with medical conditions that preclude participation in any part of the curricula are required to provide medical documentation of evaluation and determination of ability to participate in lab activities.** Students obtaining appropriate documentation of inability to participate in any aspect of lab activities and procedures will meet with the respective course director to determine the student's depth of participation in associated labs, and alternative learning pathways for the missed material.

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 20 patients throughout the OMM course, 10 patients per semester. 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 12/20/2024 and 10 OMM treatments by 6/12/2025 will result in professionalism corrective action as determined by the course director.**

Grading Information

Elements of Rotation Grading

- NBOME COMAT Exam
- OMM online module quizzes (9 total) including “Introduction to OPP” with assessment prior to starting the modules
- Patient logs: 20 OMM patients required (10 OMM patients per semester)
- OMM Literature Search (2 total)
- OMM Interactive session (2 total)

All students are required to pass the OMM COMAT exam. **This exam will be administered on May 2, 2025 locally at the student RACs, in their time zones.** A minimum raw score of 85 is needed to pass this element.

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 closes 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 on the same module. 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.**

The interactive sessions are pass/fail based upon participation of the student.

- A student who is not engaged with the material being taught during the session may be asked to leave by a faculty member. **They will not receive credit for the session and will be referred for professionalism corrective action as determined by the course director.**

Failure of two elements of rotation grading above will result in a failure of the course and the student will be referred to Student Performance Committee (SPC) with recommendations from the Course Director.

Failure of the Professionalism element may result in a Professionalism Corrective Action, or Failure of a Clerkship, as determined by the Clerkship Director.

Corrective Action

Failure of one element of rotation grading generally does not constitute a failure of the entire clerkship. 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 Course Director, the student will receive credit for the deficient academic grading requirement(s) and be eligible for a change in grade (from I (Incomplete) 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 course and will be referred to SPC for Failure of the Course.

All Year 3 requirements must be successfully completed to advance to Year 4. The need to repeat any failed clinical rotations may result in a delay in graduation.

Course Communication

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

- For administrative aspects of the course, contact Whitney Cano.
- 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