

LMU-DCOM Curricular Outcomes and Summative Assessments
Academic Year 2023-24
REVIEWED 08/2023

To evaluate, document and enhance the program's effectiveness, the LMU-DCOM Assessment Department directs, manages and facilitates a broad range of assessment initiatives. Organized around the seven core osteopathic competencies, data is collected on all program defined student learning outcomes. This chart below outlines the various methodological approaches used to assess each LMU-DCOM program outcome. These plans are continually adjusted and expanded in response to evolving needs and opportunities.

A large number and variety of focused reports are generated using summative assessment data throughout the academic cycle for use by course directors, faculty curriculum committee, rotation chairs, rotation sites, and the Dean and his administrative team. At the end of each academic year, a comprehensive outcome report (see sample at the end of this document) is created by the Assessment Office which aligns summative findings from multiple assessment measures for each program outcome and then compares these findings against established benchmarks. The Program Outcomes Committee reviews this report and makes specific recommendations for any outcome where its benchmark was not met. Finally, the report documents whether the previous year's recommendations were implemented and tracks the results of these changes.

| Core Competency | Ref # | Program Outcome | EPA | Courses | IPE | Summative Assessments |
|---|-------|--|-----|--|-----|---|
| #1 Osteopathic Principles and Practice (OPP) | 1 | Provide osteopathic clinical care that fully considers the body's capacity for self-regulation, self-healing and health maintenance. | | <ul style="list-style-type: none"> • MFM II, MPhysio • OPP I, II, III & IV • EPC III & IV • CSW Requirement • All Core, Selective, & most Elective Clinical Rotations | | <ul style="list-style-type: none"> • Multiple-Choice Exams & Quizzes • OPP Lab Practical Exams • SPEs/OSCEs • COMLEX 1 • COMLEX 2 CE • CSW • Clinical Rotations OPP Case Logs • Preceptor Evaluation of Students • Graduation Survey |
| | 2 | Apply osteopathic principles regarding the interrelatedness of structure and function in addressing clinical problems. | | <ul style="list-style-type: none"> • MGA, MPhysio, MNeuro • CNeuro, MSK, Cardio, Respir, Integ, BehavM • OPP I, II, III & IV • EPC I, II, III & IV • CSW Requirement • All Core, Selective, & most Elective Clinical Rotations | | <ul style="list-style-type: none"> • Multiple-Choice Exams & Quizzes (OPP keyword) • OPP Lab Practical Exams • SPEs/OSCEs • OMS-I Cumulative Exam • COMLEX 1 • COMLEX 2 CE • CSW • Clinical Rotations OPP Case Logs • Preceptor Evaluation of Students |
| | 3 | Apply OMM concepts and techniques to assess, diagnose and treat patients. | 1 | <ul style="list-style-type: none"> • MSK, Cardio, Respir, Integ, BehavM • OPP I, II, III & IV • EPC I, II, III & IV • CSW Requirement • All Core, Selective, & most Elective Clinical Rotations | | <ul style="list-style-type: none"> • Multiple-Choice Exams & Quizzes (OPP keyword) • OPP Lab Practical Exams • SPEs/OSCEs • Simulation Labs • OMS-I Cumulative Exam • COMLEX 1 • COMLEX 2 CE • CSW • Clinical Rotations OPP Case Logs • Preceptor Evaluation of Students • Graduating Student Self-Assessment |

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|--|-------|---|---------------------|---|-----|---|
| #2 Medical Knowledge (MK) | 1 | Apply scientific concepts governing the functioning of the body, from the molecular level to that of the whole organism, while solving clinical problems relating to the diagnosis, management and treatment of patients. | 7 | <ul style="list-style-type: none"> MGA, MFM I, MHisto, MFM II, MPhysio, MPharm, MNeuro CNeuro, MSK, Heme, Cardio, Renal, Respir, Repro, Endo, Integ, Gastro, BehavM OPP I, II, III & IV EPC I, II, III & IV CSW Requirement All Core, Selective, & most Elective Clinical Rotations | | <ul style="list-style-type: none"> Multiple-Choice Course Exams (Anat-Histo, Biochem-Molec, Physio keywords) OPP Lab Practical Exams MGA Lab Practical Exams Simulation Labs OMS-I Cumulative Exam COMLEX 1 COMAT Exams COMLEX 2 CE CSWPreceptor Evaluation of Students |
| | 2 | Apply pathophysiologic concepts underlying disease in solving clinical problems relating to the diagnosis, management and treatment of patients. | 7 6? 10? | <ul style="list-style-type: none"> MGA, MFM I, MHisto, MFM II, MPhysio, MPharm, MNeuro CNeuro, MSK, Heme, Cardio, Renal, Respir, Repro, Endo, Integ, Gastro, BehavM OPP I, II, III & IV EPC I, II, III & IV CSW Requirement All Core, Selective, & most Elective Clinical Rotations | | <ul style="list-style-type: none"> Multiple-Choice Course Exams (Path, Micro-Immuno keywords) SPEs/OSCEs Simulation Labs OMS-I Cumulative Exam COMLEX 1 COMAT Exams COMLEX 2 CE CSW Preceptor Evaluation of Students Graduating Student Self-Assessment |
| | 3 | Apply clinical care best practices supported by the biological, behavioral and social sciences in solving clinical problems relating to the diagnosis, management and treatment of patients. | 2 3 11 10? | <ul style="list-style-type: none"> MFM II, MPhysio, MPharm CNeuro, MSK, Heme, Cardio, Renal, Respir, Repro, Endo, Integ, Gastro, BehavM OPP I, II, III & IV EPC I, II, III & IV CSW Requirement All Core, Selective, & most Elective Clinical Rotations | | <ul style="list-style-type: none"> Multiple-Choice Course Exams (Diag Interpretation, Diag Mgmt, Treatment keywords) OPP Lab Practical Exams SPEs/OSCEs Simulation Labs BLS & ACLS Certifications COMAT Exams COMLEX 2 CE CSW Preceptor Evaluation of Students |
| | 4 | Apply knowledge of epidemiology and disease risk factors to formulate patient specific recommendations for the | 5 3? 11? | <ul style="list-style-type: none"> MFM II, MPhysio, MPharm CNeuro, MSK, Heme, Cardio, Renal, Respir, Repro, Endo, Integ, Gastro, BehavM FMHC II & III | | <ul style="list-style-type: none"> Multiple-Choice Course Exams (Epidemiology, Health Promo/Disease Prev keywords) SPEs/OSCEs Simulation Labs |

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| | | prevention of disease and promotion of good health. | | <ul style="list-style-type: none"> • EPC III & IV • CSW Requirement • All Core, Selective, & most Elective Clinical Rotation | | <ul style="list-style-type: none"> • COMLEX 1 • COMLEX 2 CE • CSW • Preceptor Evaluation of Students • Graduating Student Self-Assessment |
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|-------------------------------------|-------|--|-----|--|-----|---|
| #3 Patient Care (PC) | 1 | Perform appropriate patient-centered comprehensive and focused histories and physical examinations that integrate the osteopathic structural exam and osteopathic reasoning. | 1 | <ul style="list-style-type: none"> • OPP I, II, III & IV • EPC I, II, III & IV • CSW Requirement • All Core, Selective, & most Elective Clinical Rotations | | <ul style="list-style-type: none"> • Multiple-Choice Course Exams • OPP/EPC Lab Practical Exams • SPEs/OSCEs • Simulation Labs • CSW • Preceptor Evaluation of Students • Graduating Student Self-Assessment |
| | 2 | Perform a range of clinical procedures and techniques used by osteopathic physicians while minimizing patient discomfort. | 12 | <ul style="list-style-type: none"> • OPP I, II, III & IV • EPC III & IV • CSW Requirement • All Core, Selective, & most Elective Clinical Rotations | | <ul style="list-style-type: none"> • OPP/EPC Lab Practical Exams • EPC Skill Check-offs • SPEs/OSCEs • Simulation Labs • CSW • Preceptor Evaluation of Students • Graduating Student Self-Assessment |
| | 3 | Recognize the challenges and rewards of addressing global health needs and delivering care in underserved settings, emphasizing the Appalachian region. | | <ul style="list-style-type: none"> • FMHC I & II • International Rotations • All Core, Selective, & most Elective Clinical Rotations | | <ul style="list-style-type: none"> • Multiple-Choice Course Exams • Case-based Short-Answer Assignment in RUOC • Beginning of Program & Graduation Survey • GME Match Report • Graduation Survey • Longitudinal Tracking of Graduates |

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|--|-------|---|--|--|---|--|
| #4 Interpersonal and Communication Skills (ICS) | 1 | Build and maintain positive physician/patient relationships by demonstrating compassion and good listening skills. | | <ul style="list-style-type: none"> FMHC I & II EPC I, II, III & IV CSW Requirement All Core, Selective, & most Elective Clinical Rotations | CC1 VE1 VE2 VE3 VE4 VE5 VE7 | <ul style="list-style-type: none"> SPEs/OSCEs Simulation Labs CSW Preceptor Evaluation of Students Graduating Student Self-Assessment |
| | 2 | Demonstrate empathy for patients and their families and respect for human dignity, uniqueness, and self-autonomy. | | <ul style="list-style-type: none"> FMHC I & II EPC I, II, III & IV CSW Requirement All Core, Selective, & most Elective Clinical Rotations | CC6 | <ul style="list-style-type: none"> SPEs/OSCEs Simulation Labs CSW Preceptor Evaluation of Students |
| | 3 | Effectively communicate and collaborate with other health care professionals including those from other disciplines to provide patient-focused care in an individual and team setting. | 9 8 ² 13 ² | <ul style="list-style-type: none"> FMHC I & II EPC I, II, III & IV CSW Requirement All Core, Selective, & most Elective Clinical Rotations | CC1 CC2 TT3 TT8 TT11 | <ul style="list-style-type: none"> Multiple-Choice Course Exams SPEs/OSCEs Simulation Labs CSW Preceptor Evaluation of Students Graduating Student Self-Assessment |
| | 4 | Effectively counsel patients and their families regarding health maintenance, disease prevention and/or specific medical conditions using language appropriate to their developmental, educational, emotional and/or cultural statuses. | | <ul style="list-style-type: none"> FMHC II EPC III & IV CSW Requirement All Core, Selective, & most Elective Clinical Rotations | CC2 CC6 | <ul style="list-style-type: none"> Multiple-Choice Course Exams SPEs/OSCEs Simulation Labs CSW Preceptor Evaluation of Students Graduating Student Self-Assessment |
| | 5 | Effectively explain, to both patients and medical colleagues, the scientific concepts underlying the osteopathic approach to health-care, especially relating to OMM. | | <ul style="list-style-type: none"> OPP I, II, III & IV EPC II, III, & IV CSW Requirement All Core, Selective, & most Elective Clinical Rotations | CC1 TT4 CC2 | <ul style="list-style-type: none"> OPP Lab Practical Exams SPEs/OSCEs Simulation Labs CSW Preceptor Evaluation of Students Graduating Student Self-Assessment |
| | 6 | Clearly and accurately document clinical encounters including osteopathic structural exams in SOAP note and electronic formats. | 4 6 | <ul style="list-style-type: none"> OPP I, II, III & IV EPC I, II, III & IV CSW Requirement All Core, Selective, & most Elective Clinical Rotations | | <ul style="list-style-type: none"> Multiple-Choice Course Exams OPP Lab Practical Exams SPEs/OSCEs CSW Preceptor Evaluation of Students |

| Core Competency | Ref # | Program Outcome | EPA | Courses | IPE | Summative Assessments |
|---|-------|--|-----|--|--------------------------|--|
| #5 Professionalism (PRO) | 1 | Demonstrate appropriate attitudes, behaviors and accountability in personal, professional, and virtual settings. | | <ul style="list-style-type: none"> • FMHC I, II & III • EPC I, II, III & IV • CSW Requirement • All Core, Selective, & most Elective Clinical Rotations | TT7 VE5 VE6 VE9 | <ul style="list-style-type: none"> • Multiple-Choice Course Exams • SPEs/OSCEs • Simulation Labs • CSW • Preceptor Evaluation of Students |
| | 2 | Apply ethical principles and legal/regulatory concepts governing the standard practice of medicine and physician/patient relationships, including confidentiality and informed consent. | 11 | <ul style="list-style-type: none"> • MPharm, FMHC I, II & III • BehavM • EPC I, II, III & IV • CSW Requirement • All Core, Selective, & most Elective Clinical Rotations | TT2 VE2 VE7 VE8 | <ul style="list-style-type: none"> • Multiple-Choice Course Exams (Jurisprudence keyword) • SPEs/OSCEs • Simulation Labs • CSW • Preceptor Evaluation of Students |
| | 3 | Demonstrate sensitivity to and respect for differences in patients' and colleagues' gender, race, ethnicity, culture, age, socio-economic status, sexual orientation, gender identity, and physical or mental abilities. | | <ul style="list-style-type: none"> • FMHC II • EPC I, II, III & IV • CSW Requirement • Student Affairs Diversity Events • All Core, Selective, & most Elective Clinical Rotations | CC7 VE3 VE4 | <ul style="list-style-type: none"> • Multiple-Choice Course Exams • Student Affairs Event Participation • SPEs/OSCEs • Simulation Labs • CSW • Preceptor Evaluation of Students • Graduation Survey |
| | 4 | Practice the independent study skills and habits essential for lifelong learning. | | <ul style="list-style-type: none"> • FMHC I, II & III • EPC I, II, III & IV • All Core, Selective, & most Elective Clinical Rotations | RR8 VE10 | <ul style="list-style-type: none"> • SPEs • SPE Self-evaluations • Jefferson Scale of Physician Lifelong Learning • Preceptor Evaluation of Students |

| Core Competency | Ref # | Program Outcome | EPA | Courses | IPE | Summative Assessments |
|---|-------|--|---------|---|-----|--|
| #6 Practice Based Learning and Improvement (PBL) | 1 | Explain how the scientific method including research design, data collection and analysis is used to test hypotheses and answer biomedical and clinical questions. | | <ul style="list-style-type: none"> • TBLS and Course Readings for OMS I & II Basic Science Courses • FMHC II & III • IM II, EM, Research Elective | | <ul style="list-style-type: none"> • Multiple-Choice Course Exams (Bio Stats keyword) • Rotation Case Write-ups • Research Summaries |
| | 2 | Access, evaluate and use current literature and apply evidence-based findings to specific patient-care situations. | | <ul style="list-style-type: none"> • TBLS and Course Readings for OMS I & II Basic Science Courses • FMHC III • EPC I, II, III & IV • All Core, Selective, & most Elective Clinical Rotations | | <ul style="list-style-type: none"> • Multiple-Choice Course Exams • Rotation Case Write-ups • Graduating Student Self-Assessment |
| | 3 | Gather, examine, and use feedback from members of the health care team and/or patients for the purpose of improving clinical practice. | 8 13 | <ul style="list-style-type: none"> • EPC I, II, III & IV • All Core, Selective, & most Elective Clinical Rotations | RR5 | <ul style="list-style-type: none"> • SPEs • Simulation Labs • Preceptor Evaluation of Students |

| Core Competency | Ref # | Program Outcome | EPA | Courses | IPE | Summative Assessments |
|--|-------|--|----------|--|--|---|
| #7 Systems Based Practice (SBP) | 1 | Utilize knowledge of local, regional and national health-care delivery systems and policy to provide optimal care. | | <ul style="list-style-type: none"> • FMHC I & II • BH, EM, RUOC | | <ul style="list-style-type: none"> • Multiple-Choice Course Exams • Rotation Case Write-ups • Case-based Short-Answer Assignment in RUOC • Graduating Student Self-Assessment |
| | 2 | Effectively work with different health care providers to optimize patient care. | 8 13 | <ul style="list-style-type: none"> • FMHC I, II & III • All Core, Selective, & most Elective Clinical Rotations | TT3 TT4 TT5 TT7 RR3 RR4 RR5 RR6 | <ul style="list-style-type: none"> • Multiple-Choice Course Exams • Simulation Labs • Preceptor Evaluation of Students • Graduating Student Self-Assessment |
| | 3 | Recognize how health-care delivery systems impact and/or provide barriers to patient care. | | <ul style="list-style-type: none"> • FMHC I & II • BH, EM, RUOC | | <ul style="list-style-type: none"> • Multiple-Choice Course Exams • Rotation Case Write-ups • Case-based Short-Answer Assignment in RUOC • Graduating Student Self-Assessment |
| | 4 | Represent the osteopathic approach and profession within interdisciplinary health care teams. | 1? 9? | <ul style="list-style-type: none"> • FMHC I, II & III • OPP I & III • All Core, Selective, & most Elective Clinical Rotations | CC3 CC7 | <ul style="list-style-type: none"> • OPP Lab Practical Exams • Graduation Survey • Preceptor Evaluation of Students |

Abbreviations for DCOM OMSI and II Course Titles

| Abbrev | Full Course Title (OMSI) | Abbrev | Full Course Title (OMSII) |
|---------|--|----------|---|
| MGA | Medical Gross Anatomy | CNeuro | Clinical Neuroscience |
| MFMI | Molecular Fundamentals of Medicine I | MSK | Musculoskeletal System |
| MHisto | Medical Histology | Heme | Heme and Lymph System |
| OPP I | Osteopathic Principles and Practice I | Cardio | Cardiovascular System |
| EPC I | Essentials of Patient Care I | Renal | Renal System |
| FMHC I | Foundations of Modern Health Care I | Respir | Respiratory System |
| MFMI | Molecular Fundamentals of Medicine II | OPP III | Osteopathic Principles and Practice III |
| MPhysio | Medical Physiology | EPC III | Essentials of Patient Care III |
| MPharm | Medical Basic Pharmacology | Repro | Reproductive GU System |
| MNeuro | Medical Neuroanatomy | Endo | Endocrine System |
| OPP II | Osteopathic Principles and Practice II | Gastro | Gastrointestinal System |
| EPC II | Essentials of Patient Care II | Integ | Integument System |
| FMHC II | Foundations of Modern Health Care II | BehavM | Behavioral Medicine |
| | | OPP IV | Osteopathic Principles and Practice IV |
| | | EPC IV | Essentials of Patient Care IV |
| | | FMHC III | Foundations of Modern Health Care III |

Abbreviations for DCOM OMSIII and IV Course/Rotation Titles

| Abbrev | Full Rotation Title (OMSIII) | Abbrev | Full Rotation Title (OMSIV) |
|---------------|--|---------------|--|
| CSW | Clinical Skills Workshop Requirement (COMLEX Level 2PE Replacement) | EM | Emergency Medicine Rotation |
| BH | Behavioral Health Rotation | RUOC | Rural/Underserved Outpatient Care Rotation |
| IM I | Internal Medicine I Rotation | ElectR | Elective Rotations |
| IM II | Internal Medicine II Rotation | | |
| ObGyn | Obstetrics & Gynecology Rotation | | |
| Surg | General Surgery Rotation | | |
| PedsR | Pediatrics Rotation | | |
| FM/PC I | Family Medicine/Primary Care I Rotation | | |
| FM/PC II | Family Medicine/Primary Care II Rotation | | |
| SSel | Surgery Selective Rotation | | |
| ElectR | Elective Rotations | | |
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