

LMU-DCOM Curricular Outcomes and Summative Assessments
Academic Year 2019-20
APPROVED 9/5/19

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 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 • CSWS 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 • 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 • CSWS Requirement • All Core, Selective, & most Elective Clinical Rotations 		<ul style="list-style-type: none"> • Multiple-Choice Exams & Quizzes • OPP Lab Practical Exams • SPEs/OSCEs • OMS-I Cumulative Exam • COMLEX 1 • COMLEX 2 CE & PE • Clinical Rotations OPP Case Logs • Preceptor Evaluation of Students • Graduation Survey
	3	Apply OMM concepts and techniques to assess, diagnose and treat patients.	(1) 2	<ul style="list-style-type: none"> • MSK, Cardio, Respir, Integ, BehavM • OPP I, II, III & IV • EPC I, II, III & IV • CSWS 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 & PE • Clinical Rotations OPP Case Logs • Preceptor Evaluation of Students

Core Competency	Ref #	Program Outcome	EPA	Courses	IPE	Summative Assessments
#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.	2 (3) 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 • IS Course, CSWS 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 & PE • Preceptor Evaluation of Students
	2	Apply pathophysiologic concepts underlying disease in solving clinical problems relating to the diagnosis, management and treatment of patients.	2 (3) 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 • IS Course, CSWS 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 & PE • 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 6 (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 • IS Course, CSWS Requirement • All Core, Selective, & most Elective Clinical Rotations 		<ul style="list-style-type: none"> • Multiple-Choice Course Exams (Treatment, Diag Tech keywords) • OPP Lab Practical Exams • SPEs/OSCEs • Simulation Labs • COMAT Exams • COMLEX 2 CE & PE • Preceptor Evaluation of Students
	4	Apply knowledge of epidemiology and disease risk factors to formulate patient specific recommendations for the prevention of disease and promotion of good health.	(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 • EPC III & IV • IS Course, CSWS Requirement • All Core, Selective, & most Elective Clinical Rotation 		<ul style="list-style-type: none"> • Multiple-Choice Course Exams (Epidemiology, Health Promo/Disease Prev keywords) • SPEs/OSCEs • Simulation Labs • COMLEX 1 • COMLEX 2 CE & PE • Preceptor Evaluation of Students • Graduating Student Self-Assessment

Core Competency	Ref #	Program Outcome	EPA	Courses	IPE	Summative Assessments
#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 • CSWS 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 • COMLEX 2 PE • 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 • CSWS 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 • Preceptor Evaluation of Students • Graduating Student Self-Assessment
	3	Perform basic and advanced life support in simulated and actual patient care situations.	10	<ul style="list-style-type: none"> • EPC III & IV • IM I, IM II, EM 		<ul style="list-style-type: none"> • Simulation Labs • BLS & ACLS Certifications
	4	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 • Student Affairs Community Events • International Rotations • All Core, Selective, & most Elective Clinical Rotations 		<ul style="list-style-type: none"> • Multiple-Choice Course Exams • Student Affairs Event Participation • Case-based Short-Answer Assignment in RUOC • Beginning of Program & Graduation Survey • GME Match Report • Post-Graduation Surveys • Longitudinal Tracking of Graduates

Core Competency	Ref #	Program Outcome	EPA	Courses	IPE	Summative Assessments
#4 Interpersonal and Communication Skills (ICS)	1	Build and maintain positive physician/patient relationships by demonstrating compassion and good listening skills.	9	<ul style="list-style-type: none"> • FMHC I • EPC I, II, III & IV • CSWS 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 • COMLEX 2 PE • 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.	(11)	<ul style="list-style-type: none"> • FMHC I • EPC I, II, III & IV • CSWS Requirement • All Core, Selective, & most Elective Clinical Rotations 		<ul style="list-style-type: none"> • SPEs/OSCEs • Simulation Labs • COMLEX 2 PE • 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 (6) (8)	<ul style="list-style-type: none"> • FMHC I & II • EPC I, II, III & IV • CSWS Requirement • All Core, Selective, & most Elective Clinical Rotations 	CC1 CC2 CC4 TT3 TT8 TT11	<ul style="list-style-type: none"> • Multiple-Choice Course Exams • SPEs/OSCEs • Simulation Labs • 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.	9	<ul style="list-style-type: none"> • FMHC I • EPC III & IV • CSWS Requirement • All Core, Selective, & most Elective Clinical Rotations 	CC2 CC6	<ul style="list-style-type: none"> • SPEs/OSCEs • Simulation Labs • COMLEX 2 PE • Preceptor Evaluation of Students
	5	Effectively explain, to both patients and medical colleagues, the scientific concepts underlying the osteopathic approach to health-care, especially relating to OMM.	6 (11)	<ul style="list-style-type: none"> • OPP I, II, III & IV • EPC II, III, & IV • CSWS 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 • COMLEX 2 PE • Preceptor Evaluation of Students
	6	Accurately document clinical encounters including osteopathic structural exams in a timely manner.	5	<ul style="list-style-type: none"> • OPP I, II, III & IV • EPC I, II, III & IV • CSWS Requirement • All Core, Selective, & most Elective Clinical Rotations 		<ul style="list-style-type: none"> • Multiple-Choice Course Exams • OPP Lab Practical Exams • SPEs/OSCEs • Preceptor Evaluation of Students • COMLEX 2 PE

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.	9	<ul style="list-style-type: none"> • FMHC I & III • EPC I, II, III & IV • CSWS Requirement • All Core, Selective, & most Elective Clinical Rotations 	TT7 VE5 VE6 VE9	<ul style="list-style-type: none"> • SPEs/OSCEs • Simulation Labs • Preceptor Evaluation of Students
	2	Apply ethical principles governing physician/patient relationships including confidentiality and informed consent.	9	<ul style="list-style-type: none"> • FMHC I • EPC I, II, III & IV • CSWS Requirement • All Core, Selective, & most Elective Clinical Rotations 	TT2 VE2 VE7 VE8	<ul style="list-style-type: none"> • Multiple-Choice Course Exams • SPEs/OSCEs • Simulation Labs • Preceptor Evaluation of Students
	3	Apply legal and regulatory concepts and standards to the practice of medicine.	(11)	<ul style="list-style-type: none"> • MPharm • BM • FMHC I, II & III • All Core, Selective, & most Elective Clinical Rotations 		<ul style="list-style-type: none"> • Multiple-Choice Course Exams (Jurisprudence keyword)
	4	Demonstrate sensitivity to and respect for differences in patients' and colleagues' gender, ethnicity, culture, age, socio-economic status, sexual orientation, gender identity, and physical or mental abilities.	9	<ul style="list-style-type: none"> • FMHC I & III • EPC I, II, III & IV • CSWS 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 • Graduation Survey
	5	Practice habits consistent with the principles of lifelong learning.	9	<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 • Preceptor Evaluation of Students • Lifelong Learning Survey

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"> • FMHC I, II & III • 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.	7	<ul style="list-style-type: none"> • FMHC II & 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.		<ul style="list-style-type: none"> • EPC I, II, III & IV • All Core, Selective, & most • Elective Clinical Rotations 		<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.	(8) (13)	<ul style="list-style-type: none"> • FMHC I • BH, RUOC, EM 		<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.	9	<ul style="list-style-type: none"> • FMHC I & 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.	13	<ul style="list-style-type: none"> • FMHC I & III • 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.		<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

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)
IS Course	Independent Study Course	EM	Emergency Medicine Rotation
CSWS	Clinical Skills Workshop Requirement	RUOC	Rural/Underserved Outpatient Care Rotation
BH	Behavioral Health Rotation	ElectR	Elective Rotation
IM I	Internal Medicine I Rotation		
IM II	Internal Medicine II Rotation		
ObGyn	Obstetrics & Gynecology Rotation		
Surg	General Surgery Rotation		
PedsR	Pediatrics Rotation		
FM	Family Medicine Rotation		
SSel	Surgery Selective Rotation		
PSel	Primary Care Selective Rotation		
ElectR	Elective Rotation		