

## Masters in Medical Education GOALS:

- 1) To establish and refine effective clinical and classroom teaching skills. **(TEACHING)**
- 2) To enhance knowledge of the administrative aspects of leading training programs in medical education.  
**(ADMINISTRATION)**
- 3) To enhance skills for professional development, leadership, and advancement. **(PROFESSIONAL DEVELOPMENT)**
- 4) To develop and refine research skills so as to effectively interpret, conduct, and disseminate high quality research in medical education and curriculum development. **(RESEARCH/SCHOLARSHIP)**

## What are the CE milestones?

Domains of Competence	Competencies	Sub competencies
Universal Pillars for All Clinician Educators	Demonstrate the commitment to lifelong learning and enhancing one's own behaviors as a clinician educator	<ul style="list-style-type: none"> <li>• Reflective Practice and Commitment to Personal Growth</li> <li>• Recognition and Mitigation of Bias</li> <li>• Commitment to Professional Responsibilities</li> <li>• Well-being</li> </ul>
Administration	Demonstrate administrative skills relevant to their professional role, program management, and the learning environment that leads to best health outcomes	<ul style="list-style-type: none"> <li>• Administration Skills</li> <li>• Leadership Skills</li> <li>• Change Management</li> </ul>
Educational Theory and Practice	Ensure the optimal development of competent learners through the application of the science of teaching and learning to practice.	<ul style="list-style-type: none"> <li>• Teaching and Facilitating Learning</li> <li>• Professionalism in the Learning Environment</li> <li>• Learner Assessment</li> <li>• Feedback</li> <li>• Performance Improvement and Remediation</li> <li>• Program Evaluation</li> <li>• Learner Professional Development</li> <li>• Medical Education Scholarship</li> <li>• Science of Learning</li> <li>• Learning Environment</li> <li>• Curriculum</li> </ul>
Well-Being	Apply principles of well-being to develop and model a learning environment that supports behaviors which promote personal and learner psychological, emotional, and physical health.	<ul style="list-style-type: none"> <li>• Well-Being Learners and Colleagues</li> </ul>
Diversity Equity and Inclusion	Acknowledge and address the complex intrapersonal, interpersonal, and systemic influences of diversity, power, privilege, and inequity in all settings so all educators and learners can thrive and succeed.	<ul style="list-style-type: none"> <li>• Diversity, Equity, and Inclusion in the Learning Environment</li> </ul>

- **Boyle T, Chou C, Croom N et al.** The Clinician Educator Milestone Project. Available at <https://www.acgme.org/what-we-do/accreditation/milestones/resources/clinician-educator-milestones/>.

# MS in Med Ed Curriculum Mapping by CE Milestone Competencies\*

	<b>Sub-Competency</b>	<b>Courses</b>	<b>Program Goal(s)**</b>
<b>Universal Pillars (4)</b>	<b>Reflective Practice and Commitment to Personal Growth</b> Role models consistently seeking performance data with adaptability and humility and making positive behavior changes Coaches others on reflective practice Facilitates the design and implementation of learning plans for others	<ul style="list-style-type: none"> <li>• <b>Fundamentals of Adult Learning Pt. I</b></li> <li>• Fundamentals of Adult Learning Pt. II</li> <li>• <b>Enhancing Teaching Skills</b></li> <li>• Current Topics in Teaching, Learning, and Health Sciences Education Research</li> <li>• Teaching Practicum-Inpatient, Outpatient, Classroom</li> <li>• Applying Quality Improvement Methods in the Clinical Context</li> <li>• Strategies for Dealing with the Struggling Learner</li> </ul>	<ul style="list-style-type: none"> <li>• 1 (TEACHING)</li> <li>• 2 (ADMINISTRATION)</li> <li>• 3 (PROFESSIONAL DEVELOPMENT)</li> </ul>
	<b>Recognition and Mitigation of Bias</b> Mentors others on recognition and mitigation of bias	<ul style="list-style-type: none"> <li>• Strategic Leadership in Academic Medicine</li> <li>• <b>Enhancing Teaching Skills</b></li> <li>• Teaching Cultural Competency for Educators</li> </ul>	
	<b>Commitment to Professional Responsibilities</b> Consistently role models professional behaviors in the learning and working environment	<ul style="list-style-type: none"> <li>• <b>Professional Development</b></li> <li>• <b>Scientific Writing and Presentation Skills</b></li> <li>• Current Topics in Teaching, Learning, and Health Sciences Education Research</li> </ul>	
	<b>Well-being</b> Role models pursuit of optimal personal and professional well-being	<ul style="list-style-type: none"> <li>• <b>Professional Development</b></li> <li>• Teaching Cultural Competency for Educators</li> </ul>	
<b>Administration (3)</b>	<b>Administration Skills</b> Leads and guides others for best administrative practices for effective program management Leads and guides others in legal, regulatory, and accreditation functions	<ul style="list-style-type: none"> <li>• Management of Educational Programs</li> <li>• <b>Professional Development</b></li> <li>• Strategic Leadership in Academic Medicine</li> <li>• Teaching Cultural Competency for Educators</li> <li>• Current Topics in Teaching, Learning, and Health Sciences Education Research</li> </ul>	<ul style="list-style-type: none"> <li>• 2 (ADMINISTRATION)</li> </ul>
	<b>Leadership Skills</b> Leads diverse individuals and teams to achieve program- or system-level outcomes	<ul style="list-style-type: none"> <li>• <b>Professional Development</b></li> <li>• Strategic Leadership in Academic Medicine</li> <li>• Teaching Cultural Competency for Educators</li> <li>• Current Topics in Teaching, Learning, and Health Sciences Education Research</li> <li>• Introduction to Grant Writing</li> <li>• Management of Educational Programs</li> </ul>	
	<b>Change Management</b> Coaches others to create and implement effective change	<ul style="list-style-type: none"> <li>• Strategic Leadership in Academic Medicine</li> </ul>	

<b>Educational theory and Practice (11)</b>	<p><b>Teaching and Facilitating Learning</b> Serves as a coach to other educators on effective teaching practices Works collaboratively to develop educators' ability to demonstrate evidence-based teaching behaviors</p>	<ul style="list-style-type: none"> <li>• <b>Enhancing Teaching Skills</b></li> <li>• Strategies for Dealing with the Struggling Learner</li> <li>• Teaching Communication Skills</li> <li>• <b>Fundamentals of Adult Learning Pt. I</b></li> <li>• Fundamentals of Adult Learning Pt. II</li> <li>• Teaching Clinical Reasoning</li> <li>• Current Topics in Teaching, Learning, and Health Sciences Education Research</li> <li>• Teaching Practicum-Inpatient, Outpatient, Classroom</li> <li>• Innovation in Teaching and Learning</li> </ul>	<ul style="list-style-type: none"> <li>• 1 (TEACHING)</li> <li>• 2 (ADMINISTRATION)</li> <li>• 3 (PROFESSIONAL DEVELOPMENT)</li> <li>• 4 (RESEARCH/SCHOLARSHIP)</li> </ul>
	<p><b>Professionalism in the Learning Environment</b> Develops organizational and institutional processes and strategies to facilitate respectful and unbiased communication and problem solving</p>	<ul style="list-style-type: none"> <li>• Strategic Leadership in Academic Medicine</li> <li>• Making the Most of Mentoring</li> <li>• Current Topics in Teaching, Learning, and Health Sciences Education Research</li> </ul>	
	<p><b>Learner Assessment</b> Designs and implements evidence based assessment methods and tools</p>	<ul style="list-style-type: none"> <li>• <b>Assessment of Medical Learners</b></li> <li>• <b>Enhancing Teaching Skills</b></li> <li>• Teaching Communication Skills</li> <li>• Current Topics in Teaching, Learning, and Health Sciences Education Research</li> <li>• Teaching Practicum-Inpatient, Outpatient, Classroom</li> </ul>	
	<p><b>Feedback</b> Guides others to conduct effective feedback conversations Guides others to solicit, reflect on, and incorporate feedback Demonstrates expertise in explicitly constructing and maintaining learning environment in which all learners give and receive feedback to improve performance</p>	<ul style="list-style-type: none"> <li>• Strategic Leadership in Academic Medicine</li> <li>• Making the Most of Mentoring</li> <li>• Teaching Communication Skills</li> <li>• Teaching Practicum-Inpatient, Outpatient, Classroom</li> <li>• Strategies for Dealing with the Struggling Learner</li> </ul>	
	<p><b>Performance Improvement and Remediation</b> Guides others in remediation recognition and management (in all four remediation domains: identification, clarification, intervention, assessment)</p>	<ul style="list-style-type: none"> <li>• Strategies for Dealing with the Struggling Learner</li> <li>• Assessment of Medical Learners</li> <li>• Teaching Clinical Reasoning</li> <li>• Current Topics in Teaching, Learning, and Health Sciences Education Research</li> <li>• Teaching Practicum-Inpatient, Outpatient, Classroom</li> </ul>	
	<p><b>Program Evaluation</b> Develops and implements multi-site evaluations or metaevaluations Disseminates interventions that support programmatic improvement</p>	<ul style="list-style-type: none"> <li>• <b>Biostatistics</b></li> <li>• <b>Computer Methods in Clinical Research</b></li> <li>• <b>Clinical Research Methods</b></li> <li>• <b>Measurement in Clinical Research</b></li> <li>• Assessment of Medical Learners</li> </ul>	

		<ul style="list-style-type: none"> <li>• Management of Educational Programs</li> <li>• <b>Curriculum Development</b></li> <li>• Survey Design and Data Analysis</li> <li>• Qualitative Research Methods Pt. I: Theory &amp; Design</li> <li>• Qualitative Research Methods Pt. II: Applications</li> <li>• Enhancing Research Skills</li> <li>• <b>Master's Thesis</b></li> <li>• Current Topics in Teaching, Learning, and Health Sciences Education Research</li> </ul>	
	<p><b>Learner Professional Development</b> Demonstrates expertise (e.g., teaching, researching) for coaching, sponsoring, advising, and/or mentoring</p>	<ul style="list-style-type: none"> <li>• <b>Professional Development</b></li> <li>• Making the Most of Mentoring</li> <li>• Strategic Leadership in Academic Medicine</li> <li>• Teaching Communication Skills</li> <li>• Teaching Cultural Competency for Educators</li> <li>• Current Topics in Teaching, Learning, and Health Sciences Education Research</li> </ul>	
	<p><b>Medical Education Scholarship</b> Demonstrates expertise in the field of medical education scholarship and provides guidance, consultation, and mentoring across medical education</p>	<ul style="list-style-type: none"> <li>• <b>Computer Methods in Clinical Research</b></li> <li>• <b>Clinical Research Methods</b></li> <li>• <b>Biostatistics</b></li> <li>• <b>Measurement in Clinical Research</b></li> <li>• <b>Scientific Writing and Presentation Skills</b></li> <li>• Introduction to Grant Writing</li> <li>• <b>Curriculum Development</b></li> <li>• Survey Design and Data Analysis</li> <li>• Introduction to Systematic Reviews and Meta-Analyses</li> <li>• Qualitative Research Methods Pt. I: Theory &amp; Design</li> <li>• Qualitative Research Methods Pt. II: Applications</li> <li>• Enhancing Research Skills</li> <li>• Current Topics in Teaching, Learning, and Health Sciences Education Research</li> </ul>	
	<p><b>Science of Learning</b> Contributes to new knowledge in the science of learning</p>	<ul style="list-style-type: none"> <li>• Current Topics in Teaching, Learning, and Health Sciences Education Research</li> <li>• <b>Fundamentals of Adult Learning Pt. I</b></li> <li>• Fundamentals of Adult Learning Pt. II</li> <li>• <b>Enhancing Teaching Skills</b></li> </ul>	
	<p><b>Learning Environment</b> Leads system-level strategic efforts to improve learning environments Coaches</p>	<ul style="list-style-type: none"> <li>• <b>Fundamentals of Adult Learning Pt. I</b></li> <li>• Fundamentals of Adult Learning Pt. II</li> <li>• <b>Enhancing Teaching Skills</b></li> </ul>	

	others in development of effective interprofessional learning environments	<ul style="list-style-type: none"> <li>Strategies for Dealing with the Struggling Learner</li> <li>Teaching Communication Skills</li> <li>Teaching Cultural Competency for Educators</li> <li>Current Topics in Teaching, Learning, and Health Sciences Education Research</li> </ul>	
	<b>Curriculum</b> Coaches others to develop a curriculum for the needs of their learners	<ul style="list-style-type: none"> <li><b>Curriculum Development</b></li> <li><b>Master's Thesis</b></li> <li><b>Scientific Writing and Presentation Skills</b></li> <li>Survey Design and Data Analysis</li> <li>Innovation in Teaching and Learning</li> <li>Qualitative Research Methods Pt. I: Theory &amp; Design</li> <li>Qualitative Research Methods Pt. II: Applications</li> <li>Enhancing Research Skills</li> <li>Current Topics in Teaching, Learning, and Health Sciences Education Research</li> </ul>	
<b>Well Being (1)</b>	<b>Well-Being Learners and Colleagues</b> Uses experiences with learners to assess, reimagine, and create new system-based interventions and structures to support well-being Guides others in recognizing learners in distress and educates them in available resources	<ul style="list-style-type: none"> <li>Management of Educational Programs</li> <li>Strategies for Dealing with the Struggling Learner</li> <li>Current Topics in Teaching, Learning, and Health Sciences Education Research</li> </ul>	<ul style="list-style-type: none"> <li>1 (TEACHING)</li> <li>2 (ADMINISTRATION)</li> <li>3 (PROFESSIONAL DEVELOPMENT)</li> </ul>
<b>DEI (1)</b>	<b>Diversity, Equity, and Inclusion in the Learning Environment</b> Role models and advocates for best practices in diversity, equity, and inclusion in the learning environment, and works to systemically address inequities	<ul style="list-style-type: none"> <li><b>Enhancing Teaching Skills</b></li> <li>Strategic Leadership in Academic Medicine</li> <li>Teaching Cultural Competency for Educators</li> <li>Making the Most of Mentoring</li> <li>Current Topics in Teaching, Learning, and Health Sciences Education Research</li> </ul>	<ul style="list-style-type: none"> <li>1 (TEACHING)</li> <li>2 (ADMINISTRATION)</li> <li>3 (PROFESSIONAL DEVELOPMENT)</li> </ul>

- Boyle et al. The Clinician Educator Milestone Project. Available at .

**Courses**

MEDEDU 2221: Applying Quality Improvement Methods in the Clinical Context	MEDEDU 2045: Survey Design and Data Analysis
<b>MEDEDU 2080: Master's Thesis Credit</b>	<b>MEDEDU 2100: Enhancing Teaching Skills</b>
<b>MEDEDU 2111: Fundamentals of Adult Learning Part I</b>	<b>MEDEDU 2125: Assessment of Medical Learners</b>
<b>MEDEDU 2140: Scientific Writing and Presentation Skills</b>	MEDEDU 2131: Strategies for Dealing with the Struggling Learner
MEDEDU 2150: Management of Educational Programs	MEDEDU 2170: Making the Most of Mentoring
MEDEDU 2201: Teaching Practicum: Outpatient Teaching	MEDEDU 2250: Teaching Communication Skills
MEDEDU 2202: Teaching Practicum: Inpatient Teaching	<b>MEDEDU 2005: Computer Methods in Clinical Research</b>
MEDEDU 2203: Teaching Practicum: Classroom Teaching	<b>MEDEDU 2010: Clinical Research Methods</b>
MEDEDU 2230: Innovation in Teaching and Learning	<b>MEDEDU 2020: Biostatistics</b>
MEDEDU 2240: Teaching Cultural Competency for Educators	<b>MEDEDU 2040: Measurement in Clinical Research</b>
MEDEDU 2325: Fundamentals of Adult Learning Part II	<b>MEDEDU 2120: Professional Development</b>
MEDEDU 2360: Current Topics in Teaching, Learning, and Health Sciences Research	<b>MEDEDU 2130: Curriculum Development</b>
CLRES 2076: Introduction to Grant Writing	MEDEDU 2185: Strategic Leadership in Academic Medicine
MEDEDU 2400: Qualitative Research Methods Part I: Theory & Design	MEDEDU 2110: Enhancing Research Skills
MEDEDU 2401: Qualitative Research Methods Part II: Applications	MEDEDU 2211: Teaching Clinical Reasoning
MEDEDU 2085: Medical Education Independent Study	CLRES 2300: Introduction to Systematic Reviews and Meta-Analyses
	<b>COURSES IN BOLD ARE REQUIRED FOR MS</b>