

UMB Master's Degree and Certificate Programs

UMB School	Masters of Science Program	Program Description
Graduate School	M.S. Health Science*	30-credit, Masters of Science program provides individuals with the education and training needed to engage with and respond to civic, social, environmental and economic challenges at the local, national and global levels.
Graduate School	M.S. Clinical Research	The 30 credit program is designed specifically to meet the needs of the clinician or clinician-in-training by providing a combination of course work and research experiences needed for a successful career in clinical investigation. The curriculum provides students with a thorough understanding of clinical research methodology, biostatistics, and research ethics and will provide participants with the necessary skills to conduct independent clinical research, to teach, and to mentor others.
Graduate School	M.S. Human Genetics & Genomic Medicine	The 30 credit MS program provides broad training in human genetics to understand human genetic variation and its relation to health and disease. The core curriculum provides a broad overview of the key areas of human genetics (molecular, biochemical, clinical, cytogenetics, and genetic epidemiology), and then each student specialize in their own particular areas of interest. The track utilizes a multidisciplinary team approach to research training that involves a diverse set of faculty from throughout the UMB campus.
Graduate School	MS in Health and Social Innovation	36 credits program challenges students to explore and apply principles of innovation, entrepreneurship, and design thinking to solve complex health and social challenges with concentrations in Health Science, User Experience (UX), and Biomedical Entrepreneurship. Each of the concentrations is offered as a certificate as well, ranging from 12 – 15 credit hrs
School of Pharmacy	M.S. Pharmaceutical Health Services Research	Pharmaceutical Health Services Research (PHSR) program is to provide graduates with the theory, practical experience, and decision-making skills needed to address a wide range of pharmacy related problems. Students select a concentration in Comparative Effectiveness and Patient-Centered Outcomes Research, Health Behavior Research, Pharmaceutical Policy Pharmacoeconomics, or Pharmacoepidemiology; 34 credits
School of Pharmacy	MS in Pharmacometrics*	MS in Pharmacometrics provides current professionals with skills and knowledge to plan, perform, and interpret pharmacometric analyses with the goal of influencing key drug development, regulatory, and therapeutic decisions. The program equips scientists to interact with interdisciplinary teams more effectively and provides them with the tool kit needed to perform independent research. 30 credits

School of Pharmacy	MS in Regulatory Science*	The MS in Regulatory Science program primarily focuses on drugs and biologics, although aspects of biologics, diagnostics, devices, and nutritional products are also addressed. The program covers all major areas of drug product regulatory science, including: Chemistry, Manufacturing, and Controls (CMC), Clinical Research, Pharmacovigilance, Phase IV Research (e.g., Pharmacoepidemiology), and Drug Discovery. The strength of the program is its science-driven understanding of drug product development and regulation. The program covers regulatory affairs in a global manner, including the application of regulatory principles worldwide. 30 credits
School of Medicine	The Master of Public Health (MPH)	The 42 credit Master of Public Health (MPH) provides students, some of whom are concurrently enrolled in professional schools, and health professionals with the opportunity for formal training in public health. Students have the option of specializing in one of three concentrations: Community and Population Health, Epidemiology, or Global Health.
	Certificate Programs	
Graduate School	Clinical Research	The 12-credit certificate program provides training in the core competencies of clinical research including study design, biostatistics, data management, scientific communication and the ethical, legal and regulatory issues in clinical research.
Graduate School	Research Implementation and Dissemination*†	12-credit, four-course graduate certificate program to study methods that promote systematic uptake and translate the results of clinical and population research into everyday clinical practice and public health.

*Courses are 100% online for maximal flexibility for students

†Credits can be applied towards a M.S. Health Science