

Our objective is to increase the opportunity for persons with disabilities while maintaining expectations that all students achieve the goals of the program. The technical standards for admission into the Master of Science program are the same as those in the College of Medicine and include:

### **Observation**

Student must have sufficient vision to observe demonstrations and experiments in the basic sciences including, but not limited to, physiologic and pharmacologic demonstrations, microbiologic cultures, and microscopic studies of microorganisms, tissues in normal and pathological states, and laboratory exercises. Students must have adequate visual capabilities for proper evaluation and treatment integration. They must be able to observe a patient accurately at a distance and up close.

### **Communication**

Student must be able to hear, observe and speak to patients in order to elicit and acquire information, examine them, describe changes in mood, activity, and posture, and perceive their nonverbal communication. Students must also be able to communicate effectively in oral and written form with staff and faculty members, the patient, and all members of the health care team.

### **Motor**

Motor demands include reasonable endurance, strength, and precision. Students must have sufficient motor function to elicit information from patients by palpation, auscultation, percussion and other diagnostic manual maneuvers. A student must be able to execute motor movements reasonably required to provide general care and emergency treatment to patients. Such movements require coordination of both gross and fine muscular activity, equilibrium, and functional use of the senses of touch and vision.

### **Sensory**

Students need enhanced sensory skills including accuracy within specific tolerances and functional use for laboratory, classroom and clinical experiences.

### **Strength and Mobility**

Students must have sufficient posture, balance, flexibility, mobility, strength and endurance for standing, sitting and participating in the laboratory, classroom and clinical experiences.

### **Intellectual, Conceptual, Perceptual, Integrative, and Quantitative**

These abilities include reading, writing, measurement, calculation, reasoning, analysis, and synthesis. In addition, students must be able to comprehend three-dimensional relationships and to understand the spatial relationships of structures. Problem solving, the critical skill demanded of physicians, requires all of these intellectual abilities.

### **Behavioral and Social Attributes**

A student must possess the emotional health required for full utilization of their intellectual abilities, the exercise of good judgment, the prompt completion of responsibilities attendant to the diagnosis and care of patients, and the development of mature, sensitive, and effective relationships. Students must be able to tolerate physically demanding workloads and to adapt to changing environments, to display flexibility, and to learn to function in the face of uncertainties inherent in clinical problems of patients. Compassion, maturity, honesty, ethics, concern for others, interpersonal skills, interest, and motivation are all personal qualities that will be assessed during the admission and educational processes. Students will be prepared to endure the physical and emotional demands of the medical profession.

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Medical University of Ohio  
College of Graduate Studies

# MASTER DEGREE IN MEDICAL SCIENCES

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MEDICAL UNIVERSITY  
OF OHIO

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AT TOLEDO

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College of Graduate Studies  
Mulford Library  
3000 Arlington Ave.  
Toledo, OH 43614

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## Program Director

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*This program is designed to help students enhance their understanding of several biological disciplines as a foundation for medical school curricula. This program is specifically intended for those students who wish to gain admission to medical school.*

## Goal

The goal of the Master Degree in Medical Sciences is to provide a program for students who wish to enhance their understanding of the biological sciences and improve their overall application to gain admission to medical school. Strong applicants for medical school are students who typically have an excellent overall and science grade point average (GPA), good scores on the Medical College Admissions Test (MCAT), strong letters of recommendation and very good interpersonal skills. Students with good overall credentials, but who need additional opportunity to demonstrate their ability to master challenging coursework will benefit from this program. In the Master Degree in Medical Sciences program, students will have the opportunity to complete some of the coursework with medical students (being graded on the same scale) and participate in other courses, which will provide foundational information for continued study in the medical school curriculum. Students completing this program with strong academic performance, as indicated by high GPAs, will have confirmed their ability to perform in the medical school curriculum, and therefore greatly strengthen their overall admission package. Students enrolled in the program are guaranteed a medical school interview for possible acceptance into the Medical University of Ohio College of Medicine. Students who successfully complete the program will be awarded the Master of Science in Biomedical Sciences degree (MSBS/MS).

## Admission Criteria

- Baccalaureate degree from an accredited college or university
- Official MCAT score (23 or higher is recommended; GRE scores may be used for entrance into the program, however, the MCAT must be on file prior to the medical school admissions interview)
- Undergraduate transcripts with degree posted
- A GPA of 3.0 is required for regular admission and a 2.5 GPA for conditional admission
- Three letters of recommendation
- Personal statement
- Medical University of Ohio College of Graduate Studies application
- \$30 application fee

The Medical University of Ohio believes that obtaining the benefits that flow from a diverse student body is a compelling interest for our institution. A diverse student body is important in promoting cross-cultural understanding, promotes a richer classroom learning environment, and helps to develop a diverse, integrated student body that promotes leadership.

## Curriculum

The curriculum consists of eight courses, four of which are offered in the College of Medicine and four that are offered in the College of Graduate Studies.

### YEAR ONE (40 credits)

#### Fall (17 crs.)

Course #	Credit	Course Title
PUBH600	3	Public Health Statistics
INDI520	11	Cellular and Molecular Biology
PHYS505	3	Human Physiology

#### Spring (14 crs.)

Course #	Credit	Course Title
INDI602	1	"On Being a Scientist"
CMNP654	1	Journal Paper Review in Neurobiology
PUBH601	3	Public Health Epidemiology
INDI555	4	Concepts of Anatomy and Pathophysiology
NERS581	5	Neuroscience [block 3 with medical students]

#### Summer (9 crs.)

Course #	Credit	Course Title
INDI698	9	Scholarly Project

## Summary of Requirements for Graduation

- Completion of all College of Graduate Studies admission requirements of the program
- Maintenance of a cumulative 3.0 GPA, a maximum of 8 credits of C or lower in the total of 40 credits may be earned and applied to the plan of study by the student.
- A student who has been admitted into the MSBS/MS program will be eligible for graduation when she/he has successfully completed all required courses for a minimum of 40 credits.
- A student who has been dismissed from the program or who has been on academic leave for longer than 1 year, must apply for readmission into the MSBS/MS program. Readmission will be determined on an individual basis dependent on the reason for dismissal or the conditions requiring academic leave.

## Application Information

Visit our website at:  
[www.meduohio.edu/grad/application.html](http://www.meduohio.edu/grad/application.html)  
or call 419-383-4107