MEDICAL SCIENCE, M.S.

Department Chair: Dale Connally Program Director. Jacob Brewer

The Master of Science (MS) program in Medical Science is a specialized master's program designed to prepare graduates to pursue further academic training in medicine, dentistry, other professional health schools, by completing a rigorous combination of multidisciplinary courses. The MS Medical Science program is designed to elevate student's qualifications for professional programs.

Admission Requirements

Students may have a bachelor's degree in any field but must include typical science courses. A strong science background is encouraged. The program will not fulfill undergraduate medical-based professional school prerequisites. Prior to admission, applicants must have completed the following pre-requisite courses, all with grades of a C or better.:

- General Biology I & II
- · General Chemistry I & II
- · General Physics I & II
- · Biochemistry and Organic Chemistry I & II
- · Statistics

Must have a minimum cumulative GPA of 3.0. The applicant will be notified to record a video interview if meeting the minimum criteria.

Standardized test scores (optional): GRE or MCAT or DAT

Personal Statement – one page statement that highlights your strength as an applicant, motivation for this program, and relevant extracurricular activities

2 letters of recommendation (one from a science faculty member). Applicants who have previously applied to medical school may use the same documents to apply to this program.

The one-year MS in Medical Science program will be a minimum of 32-33 credit hours and will be a non-thesis program with three-term admission cycle (Spring, Summer, Fall) to accommodate different start date of medical-based professional schools.

Code	Title	Hours		
Required STEM Coursework				
BIO 5432	(Cardiopulmonary Physiology)	4		
MSMS 5300	Biostatistics	3		
MSMS 5500		5		
MSMS 5220	(Pathophysiology)	2		
MSMS 5350	(Pharmacology)	3		
Additional STEM Coursework (only for pre-med and pre-dent)				
MSMS 5341	(Principles of Biochemistry)	3		
MSMS 5401	(Microbiology & Immunology)	4		
Other Required Coursework:				
MSMS 5201	Introduction to Clinical Research & Evidence-based Decision Making	2		
MSMS 5202	(Intro to Physical Exam Skills & Patient Communication)	2		
MSMS 5250	Medical Ethics from a Christian Perspective	2		

MSMS 5260	(U.S. Health Industry & Health Disparities in the United States)	2
MSMS 5100	(Seminar)	1
Electives (6-7 hrs fo	r non pre-medical and pre-dental):	
MSMS 5425	(Physiology of Human Visceral Systems)	
MSMS 5335	(Neuromuscular Physiology)	
MSMS 5355	(Anatomy of Head and Neck)	
MSMS 5306	(Anatomical Kinesiology)	
MSMS 5307	(Biomechanics)	
Total		33

Degree Plan

Degree Pia		
Year 1		
Spring Semester		Hours
MSMS 5300	Biostatistics (Medical/Biostatistics)	3
MSMS 5430	Cardiopulmonary Physiology	4
MSMS 5201	Introduction to Clinical Research & Evidence-based Decision Making (Intro to Clinical Research & Evidenced Based Decision Making)	2
MSMS 5202	Intro to Physical Exam Skills & Patient Communication	2
	Hours	11
Summer Semeste	er	
MSMS 5500	Advanced Human Anatomy	5
MSMS/BIO 5220	Pathophysiology	2
MSMS/BIO 5341	Principles of Biochemistry or Elective	3
	Hours	10
Fall Semester		
MSMS 5350	Pharmacology	3
MSMS 5250	Medical Ethics from a Christian Perspective	2
MSMS 5260	U.S. Health Industry & Health Disparities in the United States	2
MSMS/BIO 5401	Microbiology & Immunology or Elective	4
MSMS 5100	Seminar	1
	Hours	12
	Total Hours	33

Title	Hours
(Physiology of Human Visceral Systems)	4
(Neuromuscular Physiology)	3
(Anatomy of Head and Neck)	3
(Anatomical Kinesiology)	3
(Biomechanics)	3
	(Physiology of Human Visceral Systems) (Neuromuscular Physiology) (Anatomy of Head and Neck) (Anatomical Kinesiology)