

Premedical and Pre-Health Studies Co-Major

Provides a broad-based premedical background and prepares students to pursue advanced degrees in medicine as well as other healthcare related fields. Integrates comprehensive, regularly scheduled premedical advising with courses that cover fundamental concepts in the biological, physical, and social sciences required for admission to medical school or other health professional schools, and/or in preparation for standardized professional healthcare program admission tests (e.g., MCAT, DAT, GRE, PA-CAT). A co-major must be taken in conjunction with a primary major, which provides the significant depth and breadth of an academic discipline; it cannot be taken independently. There is no specific degree designation for the co-major; students receive the degree designation of their primary major.

Note: Students are not required to complete the co-major for successful application and admittance to medical school or other health professional schools. Premedical Studies courses as well as access to services provided by the Mallory-Wilson Center for Healthcare Education and the Prehealth Advisory Committee are available to all students.

Program Requirements

Required courses (57-66 hrs)

Complete a major in one of the divisions of the university.

Core Courses

Code	Title	Credit Hours
Biology 4		
BIO/MBI 116	Biological Concepts: Structure, Function, Cellular, and Molecular Biology	
Chemistry		
General Chemistry:		10
CHM 141 & CHM 144	College Chemistry and College Chemistry Laboratory	
CHM 142 & CHM 145	College Chemistry and College Chemistry Laboratory	
Organic Chemistry:		10
CHM 241	Organic Chemistry	
CHM 244 or CHM 254	Organic Chemistry Laboratory for Chemistry Majors	
CHM 242	Organic Chemistry	
CHM 245 or CHM 255	Organic Chemistry Laboratory for Chemistry Majors	
English Composition		3
ENG 111	Composition and Rhetoric ¹	
Statistics		
Select one of the following:		3-4
STA 261	Statistics	

STA 301	Applied Statistics	
ISA 225	Principles of Business Analytics	
Professional Development		2
PMD 101	Explorations in Healthcare Careers	
PMD 301	Navigating Healthcare Professional School Admissions	
Psychology		3
PSY 111	Introduction to Psychology	
Total Credit Hours		35-36

¹ Some professional programs may require an additional course in composition. See your advisor for more information

Concentrations (one required):

Code	Title	Credit Hours
Premedical		
Biology		7-8
BIO 305 or MBI 201	Human Physiology or General Microbiology	
Select one or more of the following:		
BIO 201	Human Anatomy	
BIO 203	Introduction to Cell Biology	
BIO 342	Genetics	
MBI 365	Molecular and Cell Biology	
Chemistry		4
CHM 432	Fundamentals of Biochemistry	
Physics		8-10
Select one of the following sequences:		
PHY 161 & PHY 162	Physics for the Life Sciences with Laboratory I and Physics for the Life Sciences with Laboratory II	
OR		
PHY 181 & PHY 183	General Physics I and General Physics Laboratory I	
PHY 182 & PHY 184	General Physics II and General Physics Laboratory II	
Sociology		3
SOC 153	Sociology in a Global Context	
Recommended Electives for the Premedical Concentration		
Biology		
BIO/MBI 115	Biological Concepts: Ecology, Evolution, Genetics, and Diversity	
OR		
One additional BIO/MBI course at the 200-level or above		
Math		
MTH 151	Calculus I	
Total Credit Hours		22-25

Pre-Health

Code	Title	Credit Hours
Biology		16
BIO/MBI 115	Biological Concepts: Ecology, Evolution, Genetics, and Diversity	
BIO 201	Human Anatomy	
BIO 305 or BIO 161	Human Physiology Principles of Human Physiology	
MBI 201	General Microbiology	
Biochemistry		3-4
CHM 432 or CHM 332	Fundamentals of Biochemistry Outlines of Biochemistry	
Additional coursework: Choose the Pre-PA or the Pre-Health option		6-10
Pre-PA option:		
PSY 231 or PSY 242	Developmental Psychology Introduction to Psychopathology	
KNH 209	Medical Terminology for Health Professionals	
Pre-Health option: select 1 of the following sequences		
PHY 161 & PHY 162	Physics for the Life Sciences with Laboratory I and Physics for the Life Sciences with Laboratory II	
OR		
PHY 181 & PHY 183	General Physics I and General Physics Laboratory I	
PHY 182 & PHY 184	General Physics II and General Physics Laboratory II	
Total Credit Hours		25-30