

# 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 (61-66 hrs)

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

### Core Courses

Code	Title	Credit Hours
<b>Biology</b>		<b>4</b>
BIO 116	Biological Concepts: Structure, Function, Cellular, and Molecular Biology	
<b>Chemistry</b>		
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 & CHM 244	Organic Chemistry and Organic Chemistry Laboratory	
CHM 242 & CHM 245	Organic Chemistry and Organic Chemistry Laboratory	
<b>English Composition</b>		<b>3</b>
ENG 111	Composition and Rhetoric <sup>1</sup>	
<b>Statistics</b>		
Select one of the following:		3-4
STA 261	Statistics	
STA 301	Applied Statistics	
ISA 225	Principles of Business Analytics	
<b>Professional Development</b>		<b>2</b>
PMD 101	Explorations in Healthcare Careers	

PMD 301 Navigating Healthcare Professional School Admissions

<b>Psychology</b>	<b>4</b>
PSY 111 & PSY 112	Introduction to Psychology and Foundational Experiences in Psychology
<b>Total Credit Hours</b>	<b>36-37</b>

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

### Concentrations (one required):

Premedical Code	Title	Credit Hours
<b>Biology</b>		<b>7-8</b>
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	
<b>Chemistry</b>		<b>4</b>
CHM 432	Fundamentals of Biochemistry	
<b>Physics</b>		<b>8-10</b>
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	
<b>OR</b>		
PHY 191 & PHY 192	General Physics with Laboratory I and General Physics with Laboratory II	
<b>Sociology</b>		<b>3</b>
SOC 153	Sociology in a Global Context	
<b>Recommended Electives for the Premedical Concentration</b>		
<b>Biology</b>		
BIO 115	Biological Concepts: Ecology, Evolution, Genetics, and Diversity	
<b>OR</b>		
One additional BIO/MBI course at the 200-level or above		
<b>Math</b>		
MTH 151	Calculus I	
<b>Total Credit Hours</b>		<b>22-25</b>
Pre-Health Code	Title	Credit Hours
<b>Biology</b>		<b>16</b>
BIO 115	Biological Concepts: Ecology, Evolution, Genetics, and Diversity	
BIO 201	Human Anatomy	

BIO 305	Human Physiology	
or BIO 161	Principles of Human Physiology	
MBI 201	General Microbiology	
<b>Biochemistry</b>		<b>3-4</b>
CHM 432	Fundamentals of Biochemistry	
or CHM 332	Outlines of Biochemistry	
<b>Additional Coursework: Choose the Pre-PA or the Pre-Health option</b>		<b>6-10</b>
Pre-PA option:		
PSY 231	Developmental Psychology	
or PSY 242	Abnormal Psychology	
KNH 209	Medical Terminology for Health Professionals	
Pre-Health option:		
PHY 161	Physics for the Life Sciences with	
& PHY 162	Laboratory I	
	and Physics for the Life Sciences with	
	Laboratory II	
<b>OR</b>		
PHY 191	General Physics with Laboratory I	
& PHY 192	and General Physics with Laboratory II	
<b>Total Credit Hours</b>		<b>25-30</b>