Premedical and Pre-Health Studies Certificate

A post-baccalaureate certificate that provides a broad-based premedical/pre-health 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 the Medical College Admission Test (MCAT) or other healthcare professional school admission tests.

Students interested in this certificate should contact the Mallory-Wilson Center; 106 Pearson Hall; 513-529-3737; mallorywilsoncenter@miamioh.edu).

Admission requirements:

Applicants are evaluated based on their previous academic record (3.2 GPA minimum), standardized test scores (SAT, ACT, or GRE), motivation, experience in medicine, and personal qualities.

Two letters of recommendation are required: one should be from a faculty member, and a second from another faculty member, a supervisor, or a healthcare professional.

Certificate requirements:

Completion of 24 credit hours of certificate courses at Miami, with a 3.2 GPA.

Prior Coursework:

If a student has already completed a required course, they do not have to take the course again. Also, if a student has already completed several required courses prior to entering the program such that they have fewer than 24 credit hours of required courses remaining, they may take elective courses to satisfy the required minimum of 24 credit hours.

Students may elect to repeat a course taken prior to entering the program for a variety of reasons. It may be that the student is not satisfied with their grade, or the course was taken several years ago. Those students considering this option should discuss this with their pre-health professions advisor.

Growth year assistance:

During the growth year (the year after finishing the certificate program in which one applies to and interviews for medical school), the Mallory-Wilson Center will continue to provide advising opportunities, including application review and mock interviewing.

Program Requirements Required courses: 24 hours of the nonelective courses

elective courses				
Code	Title	Credit Hours		
Biology				
BIO 116	Biological Concepts: Structure, Function, Cellular, and Molecular Biology	4		
BIO 201	Human Anatomy	4		
BIO 203	Introduction to Cell Biology	3		
BIO 305	Human Physiology	4		
Chemistry				
General Chemistry	y:	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			
Biochemistry:		4		
CHM 432	Fundamentals of Biochemistry ¹			
or CHM 332	Outlines of Biochemistry			
Physics		8-10		
PHY 161	Physics for the Life Sciences with Laboratory I			
or PHY 181 & PHY 183	General Physics I and General Physics Laboratory I			
PHY 162	Physics for the Life Sciences with Laboratory II			
or PHY 182 & PHY 184	General Physics II and General Physics Laboratory II			
Statistics				
Select one of the f	3-4			
STA 261	Statistics			
STA 301	Applied Statistics			
Professional Development				
PMD 301	Navigating Healthcare Professional School Admissions	1		

¹ CHM 432 is the preferred course for Biochemistry

Elective courses: as needed (see Prior Coursework)

Code Biological S	Title ciences	Credit Hours
BIO 342	Genetics	3
BIO 361	Patterns in Development	4
BIO 449	Biology Of Cancer	3

BIO 454	Endocrinology	3
BIO 457	Neuroanatomy	3
BIO 469	Neurophysiology	3
MBI 201	General Microbiology	4
MBI 361	Fundamentals of Epidemiology	3
MBI 365	Molecular and Cell Biology	3
MBI 405	Medical Bacteriology	4
MBI 415	Immunology Principles and Practice	4 or 3
or MBI 414	Immunology Principles	
MBI 464	Human Viruses	3
Social Sciences		
PSY 111	Introduction to Psychology	4
& PSY 112	and Foundational Experiences in Psychology	
SOC 153	Sociology in a Global Context	3

In consultation with the advisor, students will develop the best program of study for their needs. Students may also take additional elective coursework with the advisor's approval.

Opportunities for shadowing, volunteering, and research can be explored with the Mallory-Wilson Center and program faculty.