PREMEDICINE, B.S.

Begin Campus: Any Penn State Campus

End Campus: University Park

Degree Requirements

For the Bachelor of Science degree in Premedicine, a minimum of 126 credits is required, with at least 18 credits at the 400 level:

Requirement	Credits
General Education	45
Requirements for the Major	105

24 of the 45 credits for General Education are included in the Requirements for the Major. This includes: 9 credits of GN courses; 6 credits of GQ courses; 6 credits of GS courses; 3 credits of GHW courses.

Requirements for the Major

To graduate, a student enrolled in the major must earn a grade of C or better in each course designated by the major as a C-required course, as specified by Senate Policy 82-44 (https://senate.psu.edu/policies-and-rules-for-undergraduate-students/82-00-and-83-00-degree-requirements/#82-44).

Code	Title	Credits	
Prescribed Courses			
HPA 101	Introduction to Health Services Organization	3	
PHIL 432	Medical and Health Care Ethics	3	
PSYCH 100	Introductory Psychology	3	
SOC 1	Introductory Sociology	3	
Prescribed Courses: Require a grade of C or better			
BIOL 110	Biology: Basic Concepts and Biodiversity	4	
BIOL 230W	Biology: Molecules and Cells	4	
CHEM 110	Chemical Principles I	3	
CHEM 111	Experimental Chemistry I	1	
CHEM 112	Chemical Principles II	3	
CHEM 113	Experimental Chemistry II	1	
CHEM 210	Organic Chemistry I	3	
CHEM 212	Organic Chemistry II	3	
CHEM 213	Laboratory in Organic Chemistry	2	
MATH 140	Calculus With Analytic Geometry I	4	
MATH 141	Calculus with Analytic Geometry II	4	
NUTR 251	Introductory Principles of Nutrition	3	
PHYS 211	General Physics: Mechanics	4	
PHYS 212	General Physics: Electricity and Magnetism	4	
PHYS 213	General Physics: Fluids and Thermal Physics	2	
PHYS 214	General Physics: Wave Motion and Quantum Physics	2	
Additional Courses			
STAT 200	Elementary Statistics	3-4	

Introduction to Biostatistics

Biology: Populations and Communities

Biology: Function and Development of Organisms

or STAT 250

BIOL 220W

BIOL 240W

Select one of the following:

MICRB 201 & MICRB 202	and Introductory Microbiology Laboratory	
	s: Require a grade of C or better	
Select one of the	following:	4-5
BIOL 421	Comparative Anatomy of Vertebrates	
BIOL 437	Histology	
BIOL 472 & BIOL 473	Human Physiology and Laboratory in Mammalian Physiology	
MICRB 412 & MICRB 422	Medical Microbiology and Medical Microbiology Laboratory	
Select 5-6 credits	from the following:	5-6
BMB 400	Molecular Biology of the Gene	
BMB 401	General Biochemistry	
BMB 402	General Biochemistry	
CHEM 450 & CHEM 452	Physical Chemistry - Thermodynamics and Physical Chemistry - Quantum Chemistry	
Supporting Cours	es and Related Areas	
	in a foreign language ¹	0-8
Select 18-30 cred	its from program list ²	18-30

MICRR 201 Introductory Microbiology

- Proficiency demonstrated by examination or coursework to the level of the second semester; if fewer than 8 credits are needed to reach the required proficiency, students choose selections from program list to total 8 credits.
- A maximum of 12 credits of Independent Study [296, 496] may be applied toward credits for graduation. Students may apply 6 credits of BOTC

General Education

Connecting career and curiosity, the General Education curriculum provides the opportunity for students to acquire transferable skills necessary to be successful in the future and to thrive while living in interconnected contexts. General Education aids students in developing intellectual curiosity, a strengthened ability to think, and a deeper sense of aesthetic appreciation. These are requirements for all baccalaureate students and are often partially incorporated into the requirements of a program. For additional information, see the General Education Requirements (https://bulletins.psu.edu/undergraduate/general-education/baccalaureate-degree-general-education-program/) section of the Bulletin and consult your academic adviser.

The keystone symbol appears next to the title of any course that is designated as a General Education course. Program requirements may also satisfy General Education requirements and vary for each program.

Foundations (grade of C or better is required and Inter-Domain courses do not meet this requirement.)

- · Quantification (GQ): 6 credits
- · Writing and Speaking (GWS): 9 credits

Breadth in the Knowledge Domains (Inter-Domain courses do not meet this requirement.)

· Arts (GA): 3 credits

4-5

- · Health and Wellness (GHW): 3 credits
- · Humanities (GH): 3 credits
- · Social and Behavioral Sciences (GS): 3 credits
- · Natural Sciences (GN): 3 credits

Integrative Studies

· Inter-Domain Courses (Inter-Domain): 6 credits

Exploration

- · GN, may be completed with Inter-Domain courses: 3 credits
- GA, GH, GN, GS, Inter-Domain courses. This may include 3 credits
 of World Language course work beyond the 12th credit level or the
 requirements for the student's degree program, whichever is higher: 6
 credits

University Degree Requirements

First Year Engagement

All students enrolled in a college or the Division of Undergraduate Studies at University Park, and the World Campus are required to take 1 to 3 credits of the First-Year Seminar, as specified by their college First-Year Engagement Plan.

Other Penn State colleges and campuses may require the First-Year Seminar; colleges and campuses that do not require a First-Year Seminar provide students with a first-year engagement experience.

First-year baccalaureate students entering Penn State should consult their academic adviser for these requirements.

Cultures Requirement

6 credits are required and may satisfy other requirements

United States Cultures: 3 creditsInternational Cultures: 3 credits

Writing Across the Curriculum

3 credits required from the college of graduation and likely prescribed as part of major requirements.

Total Minimum Credits

A minimum of 120 degree credits must be earned for a baccalaureate degree. The requirements for some programs may exceed 120 credits. Students should consult with their college or department adviser for information on specific credit requirements.

Quality of Work

Candidates must complete the degree requirements for their major and earn at least a 2.00 grade-point average for all courses completed within their degree program.

Limitations on Source and Time for Credit Acquisition

The college dean or campus chancellor and program faculty may require up to 24 credits of course work in the major to be taken at the location or in the college or program where the degree is earned. Credit used toward degree programs may need to be earned from a particular source or within time constraints (see Senate Policy 83-80 (https://senate.psu.edu/policies-and-rules-for-undergraduate-students/82-00-and-83-00-degree-requirements/#83-80)). For more information, check the Suggested Academic Plan for your intended program.