# B.S. in PREMEDICINE

## MAJOR REQUIREMENTS

### PRESCRIBED COURSES, 59 credits

- **BIOL 110**, 4 cr.  
  *C or better required*
- **BIOL 230W**, 4 cr.  
  *C or better required*
- **CHEM 110**, 3 cr.  
  *C or better required*
- **CHEM 111**, 1 cr.  
  *C or better required*
- **CHEM 112**, 3 cr.  
  *C or better required*
- **CHEM 113**, 1 cr.  
  *C or better required*
- **CHEM 210**, 3 cr.  
  *C or better required*
- **CHEM 212**, 3 cr.  
  *C or better required*
- **CHEM 213W**, 2 cr.  
  *C or better required*
- **HPA 101**, 3 cr.
- **MATH 140**, 4 cr.  
  *C or better required*
- **MATH 141**, 4 cr.  
  *C or better required*
- **NUTR 251**, 3 cr.  
  *C or better required*
- **PHIL 432**, 3 cr.
- **PHYS 211**, 4 cr.  
  *C or better required*
- **PHYS 212**, 4 cr.  
  *C or better required*
- **PHYS 213**, 2 cr.  
  *C or better required*
- **PHYS 214**, 2 cr.  
  *C or better required*
- **PSYCH 100**, 3 cr.
- **SOC 1**, 3 cr.

### ADDITIONAL COURSES, 16-20 credits

#### Life Sciences, 4-5 credits:
Select **one** of the following lecture/lab combinations:

- **BIOL 220W**, 4 cr.
- **BIOL 240W**, 4 cr.

#### Statistics, 3-4 credits: Select **one** of the following courses:

- **STAT 200**, 4 cr.
- **STAT 250**, 3 cr.

#### Biology, 4-5 credits:  
Select **one** of the following lecture/lab combinations:

- **BIOL 421**, 4 cr.
- **BIOL 472 and 473**, 5 cr.
- **BIOL 437**, 4 cr.
- **MICRB 412 and 422**, 5 cr.

#### Biochemistry & Molecular Biology, 5-6 credits:  
Select **two** of the following courses:

- **BMB 400**, 2-3 cr.
- **BMB 401**, 3 cr.

#### ELECTIVES (PROGRAM LIST): Select 18-30 credits in consultation with an adviser. (See Program List Exclusions.)

Must complete **126 total eligible credits for the degree**.

### SUPPORTING COURSES, 26-30 credits

#### Language Proficiency: 0-8 credits in World Language
(Second-semester proficiency required. Ask adviser for details.)

- **___**

#### Electives (Program List): Select 18-30 credits in consultation with an adviser. (See Program List Exclusions.)

- **___**

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*18 total eligible credits must be taken at the 400 level.  
12-14 credits at the 400 level are included in Major Requirements, so an additional 4-6 credits are required as electives.

*Entrance-to-Major (ETM) course: Prior to entering the Premedicine major, students must have third-semester standing (29.1 credits or more), a 3.2 cumulative GPA, and earn a C or better in all ETM courses: BIOL 110, 230W; CHEM 110, 111, 112, 113, 210; and MATH 140, 141.*
PENN STATE UNIVERSITY | EBERLY COLLEGE OF SCIENCE
PROGRAM YEAR: 2018

GENERAL EDUCATION REQUIREMENTS

KNOWLEDGE DOMAINS

Natural Sciences (GN), 9 credits
☐ BIOL 110, 4 credits
☐ CHEM 110 & 111, 4 credits
☐ CHEM 112 & 113, 4 credits

Arts (GA), 6 credits
(3 credits must NOT be inter-domain*)
☐ ______________________________
☐ ______________________________

Humanities (GH), 6 credits
(3 credits must NOT be inter-domain*)
☐ ______________________________
☐ ______________________________

Social and Behavioral Sciences (GS), 6 credits
(3 credits must NOT be inter-domain*)
☐ PSYCH 100, 3 credits
☐ SOC 1, 3 credits

Health and Wellness (GHW), 3 credits
(3 credits must NOT be inter-domain*)
☐ NUTR 251, 3 credits

Additional Knowledge Domain Courses, 0-6 credits*
☐ ______________________________
☐ ______________________________

FOUNDATIONS

Writing & Speaking (GWS), 9 credits  C or better required
☐ ENGL 15± or ENGL 30 or ESL 15, 3 credits
☐ CAS 100*, 3 credits
☐ ENGL 202 A, B, C, or D, 3 credits (Option A or C preferred)

Quantification (GQ), 6 credits  C or better required
☐ MATH 140, 4 credits
☐ MATH 141, 4 credits

ADDITIONAL UNIVERSITY REQUIREMENTS

Requirements in this category only may be satisfied by courses being used elsewhere for the degree.

First-Year Seminar (FYS), 1 credit
☐ PSU 16, 1 credit

United States Cultures (US), 3 credits
☐ ______________________________

International Cultures (IL), 3 credits
☐ ______________________________

Writing Across the Curriculum (WAC), 3 credits
☐ BIOL 110, 1 credit
☐ CHEM 213W, 2 credits

Integrative Studies (IS), 6 credits
Must be two (paired) Linked courses (Z-suffix), or two (distinct) Inter-domain* courses (N-suffix)
☐ ______________________________
☐ ______________________________

*Inter-domain courses span across two different Knowledge Domains. One inter-domain course may count as 3 credits toward each Domain, but 30 distinct credits of Knowledge Domain courses (GN/GA/GH/GS/GHW) are required in total.

±Move-3 Substitution: A student may choose to shift 3 credits of courses from the GN, GA, GH, or GS categories to either GN, GA, GH, GS, or GHW categories at the approval of an Academic Adviser.
Students may select supporting courses from nearly the entire range of the University’s course offerings. However, the following courses may NOT be used to satisfy degree requirements in the Science and Premedicine majors. This list applies to ALL options in the Science BS major.

- BIOL 001, 003, 011*, 012*
- BI SC 001, 002, 003*, 004*
- B M B 001*
- CAS 126
- CHEM 001, 003, 005, 101, 108
- CMPSC 100
- ENGL 004, 005
- ESL 004, 005
- LL ED 005, 010
- MATH 003, 004, 010, 017, 018, 021, 022, 026, 030, 033, 034, 035, 036, 040, 041, 081, 082, 083, 097, 110, 111, 200
- PHYS 001, 010, 097, 114, 150, 151
- STAT 100

*On rare occasions, with adequate justification, a student may be permitted to use one or more of these courses to satisfy degree requirements. A petition must be submitted to request such an exception. Consult with your academic adviser.

In addition, the following types of courses may not be used to satisfy degree requirements in the Science or Premedicine majors:

- Courses which are remedial in nature or which focus on reading improvement or study skills.
- Courses which substantially duplicate the subject matter covered in other completed courses taught at a comparable level.

Some courses may be counted toward degree requirements in the Science and Premedicine majors with some restrictions:

- No more than 4 credits of MATH 140A may be used.
- No more than 6 credits of ROTC courses (AIR, ARMY, NAVSC) may be used.
- No more than 12 credits of independent study (296, 496, etc.) may be used. **Unless special permission is granted, Independent Study credit may only be used in “Supporting Courses” and “Any 400-level Course Work” categories.
- No more than 5 credits of KINES Physical Activity courses may be used. **KINES Health Courses (KINES 180, etc.) are not limited to 5 credits.