B.S. in SCIENCE

GENERAL OPTION

MAJOR REQUIREMENTS

PRESCRIBED COURSES

- BIOL 110, 4 credits\(^1\)\(^2\)
- CHEM 110, 3 credits\(^1\)\(^2\)
- CHEM 111, 1 credit
- CHEM 112, 3 credits
- CHEM 113, 1 credits
- MATH 140, 4 credits\(^1\)\(^2\)
- MATH 141, 4 credits

OPTION REQUIREMENTS

ADDITIONAL COURSES

**Biology:** Select 4 credits from BIOL 129; BIOL 220W; BIOL 230W; BIOL 240W; BIOL 141 and 142.

**Statistics:** Select 3-4 credits from STAT 200, STAT 250, STAT 301 or STAT 401.

**Physics:** Select 8-12 credits from the following*:
- PHYS 211, 4 credits\(^1\)\(^2\)
- PHYS 212, 4 credits
- PHYS 213, 2 credits
- PHYS 214, 2 credits

*Must complete one sequence in its entirety.

SUPPORTING COURSES

**Earth and Mineral Sciences:** Select 3 credits from the College of Earth & Mineral Sciences. (Includes EARTH, EGEE, EM SC, GEOG, GEOSC, MATSE, and METEO courses.)

**Global, Social, and Personal Awareness:**
Select 3 credits from Department List.

**Teamwork and Interpersonal Communication:**
Select 3 credits from Department List.

**400-Level Life, Mathematical, or Physical Sciences:**
Select 9 credits of courses. (Includes BMB, BIOL, MICRB, CMPSC, MATH, STAT, ASTRO, CHEM, and PHYS. See Program List Exclusions.)

**Life, Mathematical, or Physical Sciences:**
Select 9 credits of courses. (Includes BMB, BIOL, MICRB, CMPSC, MATH, STAT, ASTRO, CHEM, and PHYS. See Program List Exclusions.)

**400-level Courses:** Select 6 credits of courses.

**Program List:** Select 21-26 credits in consultation with an adviser (See Program List Exclusions.)

- PSU 16, 1 credit
- ______________________
- ______________________
- ______________________
- ______________________
- ______________________
- ______________________
- ______________________
- ______________________
B.S. in SCIENCE

GENERAL OPTION

GENERAL EDUCATION REQUIREMENTS

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
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<tbody>
<tr>
<td>First-Year Seminar (FYS), 1 credit</td>
<td>1</td>
</tr>
<tr>
<td>PSU 16, 1 credit</td>
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<tr>
<td>US Cultures (US), 3 credits³</td>
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<tr>
<td>US Cultures</td>
<td>3</td>
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<tr>
<td>International Cultures (IL), 3 credits³</td>
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<tr>
<td>International Cultures</td>
<td>3</td>
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<tr>
<td>Writing Across the Curriculum (WAC), 3 credits³⁴</td>
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<tr>
<td>BIOL 110, 1 credit</td>
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<tr>
<td>Writing and Speaking (GWS), 9 credits</td>
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<tr>
<td>ENGL 15, 3 credits</td>
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<tr>
<td>CAS 100, 3 credits</td>
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<tr>
<td>ENGL 202 A, B, C, or D, 3 credits (Option A or C preferred)</td>
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<tr>
<td>Arts (GA), 6 credits</td>
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<tr>
<td>Humanities (GH), 6 credits</td>
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<tr>
<td>Social &amp; Behavioral Sciences (GS), 6 credits</td>
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<tr>
<td>Health &amp; Physical Activity (GHA), 3 credits</td>
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</tbody>
</table>

This major requires a **total of 124 credits** appropriate to the degree. **At least 15 credits must be earned at the 400-level.** They must also satisfy the University’s First Year Seminar, International and US Cultures, and Writing Across the Curriculum requirements. At least 36 of the last 60 credits must be completed at the University, and the last 60 credits within the past 5 calendar years.

(1) A student enrolled in this major must receive a grade of C or better, as specified in Senate Policy 82-44.

(2) Course is an ETM Requirement. Students must receive a C or better grade in all ETM courses prior to entering the major and have at least third semester classification to be entered into the Science major.

(3) Courses are included in GENERAL EDUCATION course selection or MAJOR REQUIREMENTS. When totaling credits, do not count courses in this category.

(4) Note that only 1 credit each of BIOL 110, BIOL 220W, BIOL 230W, and BIOL 240W count toward the Writing Across the Curriculum requirement.
B.S. in Science, General Option

List 1 Teamwork and Interpersonal Communications*
CAS 203 (GS) Interpersonal Communication (3)
CAS 252 Business and Professional Communication (3)
CAS 253 Health Communication (3)
CAS 271 (US;IL) Intercultural Communication (3)
CAS 404 Conflict Resolution and Negotiation (3)
HD FS 216 Personal & Interpersonal Skills (3)
PSYCH 140 Management of Interpersonal Relationships (3)
PSYCH 221 (GS) Social Psychology (3)
PSYCH 232 (GS;US;IL) Cross-Cultural Psychology (3)
SOC 003 (GS) Intro to Social Psychology (3)
SOC 404 Social Influence and Small Groups (3)

List 2 Global, Social and Personal Awareness*
AAA S 103 (US) (SOC 103, WMNST 103) Racism and Sexism (3)
AAA S 302 (US) (BB H 302) Diversity and Health (3)
ANTH 045 (GS; US; IL) Cultural Anthropology (3)
HD FS 129 (GS) Introduction to Human Development and Family Studies (3)
HD FS 229 (GS) Infant and Child Development (3)
HD FS 239 (GS) Adolescent Development (3)
HD FS 249 (GS) Adult Development and Aging (3)
HD FS 315 (US) Family Development (3)
PSYCH 212 (GS) Introduction to Developmental Psychology (3)
PSYCH 231 (GS;US) Introduction to the Psychology of Gender (3)
PSYCH 232 (GS;US;IL) Cross-Cultural Psychology (3)
PSYCH 260 (BB H 203) Neurological Basis of Human Behavior (3)
PSYCH 270 Introduction to Abnormal Psychology (3)
PSYCH 370 (US) Psychology of the Differently-Abled (3)
RL ST 001 (GH;US;IL) Introduction to World Religions (3)
SOC 001 (GS) Introductory Sociology (3)
SOC 005 (GS) Social Problems (3)
SOC 119 (GS;US) Race and Ethnic Relations (4)

*Please note pre-requisites and co-requisites when selecting course options for your program.
PENN STATE UNIVERSITY
EBERLY COLLEGE OF SCIENCE
SCIENCE (SC BS) AND PREMEDICINE (PM) MAJORS

PROGRAM LIST EXCLUSIONS:
COURSEWORK NOT APPLICABLE TO
DEGREE REQUIREMENTS

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.