

VETERINARY AND BIOMEDICAL SCIENCES, B.S.

Seven Penn State campuses are scheduled for closure after Spring 2027: DuBois, Fayette, New Kensington, Mont Alto, Shenango, Wilkes-Barre, and York. New students are not being admitted at these campuses.

Begin Campus: Any Penn State Campus

End Campus: University Park

Suggested Academic Plan

The suggested academic plan(s) listed on this page are the plan(s) that are in effect during the 2026-27 academic year. To access previous years' suggested academic plans, please visit the archive (<https://bulletins.psu.edu/undergraduate/archive/>) to view the appropriate Undergraduate Bulletin edition.

Veterinary and Biomedical Sciences, B.S. at University Park Campus

The course series listed below provides **only one** of the many possible ways to move through this curriculum. The University may make changes in policies, procedures, educational offerings, and requirements at any time. This plan should be used in conjunction with your degree audit (accessible in LionPATH as either an **Academic Requirements** or **What If** report). Please consult with a Penn State academic adviser on a regular basis to develop and refine an academic plan that is appropriate for you.

First Year

Fall	Credits Spring	Credits
VBSC 50 (or First-Year Seminar)	1-3 ENGL 15 or 30H (GWS)*	3
Economics/Business Selection (GS) ¹	3 General Education selection (GA/GH/Integrated)	3
CHEM 110 (GN) ^{*2}	3 CHEM 112 (GN)	3
CHEM 111 (GN) ^{*2}	1 CHEM 113 (GN)	1
MATH 140 or 140B (GQ)*	4 MATH 141 or 141B (GQ)*	4
General Education selection (GA/GH/GHW/Integrated)	3 General Education selection (GA/GH/GHW/Integrated)	3
15-17		17

Second Year

Fall	Credits Spring	Credits
BIOL 110 (GN) ^{*2}	4 BIOL 220W, 230W, 240W, or BMB 251 (GN)	3-4
PHYS 250 (GN)	4 PHYS 251 (GN)	4
CHEM 202 or 210	3 CHEM 203 or 212 and 213W	3-5
CAS 100A, 100B, or 100C (GWS)*	3 ANSC 201*	4
General Education selection (GA/GH/GHW/Integrated)	3	
17		14-17

Third Year

Fall	Credits Spring	Credits
BMB 401 or 211 and 212	3-4 BMB 402 or 221	2-3
ANSC 301*	3 VBSC 211 (GN)	3
STAT 250 or 200 (GQ)	3 MICRB 201	3

BIOL 222 or 322*	3 MICRB 202	2
General Education selection (GA/GH/GHW/Integrated)	3 Elective	3
	General Education selection (GA/GH/GHW/Integrated)	3
15-16		16-17
Fourth Year		
Fall	Credits Spring	Credits
VBSC 421	4 VBSC 403*	3
Supporting Courses (see department list)*	6 BIOL 472 or ANSC 423	3
Elective	3 Electives	6
ENGL 202C (GWS)* ⁴	3 Supporting Courses (see department list)*	3
16		15

Total Credits 125-132

* Course requires a grade of C or better for the major

‡ Course requires a grade of C or better for General Education

Course is an Entrance to Major requirement

† Course satisfies General Education and degree requirement

¹ Selected from BA 100, ECON 14, ECON 102, ECON 104, or AGBM 101

² Entrance-to-Major Requirements:

- a cumulative GPA of at least a 2.0
- earn a minimum of 29.1 credits
- completed BIOL 110, CHEM 110, CHEM 111 with a C or better

³ ENGL 202C is strongly recommended. Graduate and professional schools may require technical writing.

University Requirements and General Education Notes:

US and IL are abbreviations used to designate courses that satisfy Cultural Diversity Requirements (United States and International Cultures).

W, M, X, and Y are the suffixes at the end of a course number used to designate courses that satisfy University Writing Across the Curriculum requirement.

General Education includes Foundations (GWS and GQ), Knowledge Domains (GHW, GN, GA, GH, GS) and Integrative Studies (Inter-domain) requirements. N or Q (Honors) is the suffix at the end of a course number used to help identify an Inter-domain course, but the inter-domain attribute is used to fill audit requirements. Foundations courses (GWS and GQ) require a grade of 'C' or better.

All incoming Schreyer Honors College first-year students at University Park will take ENGL 137H/CAS 137H in the fall semester and ENGL 138T/CAS 138T in the spring semester. These courses carry the GWS designation and satisfy a portion of that General Education requirement. If the student's program prescribes GWS these courses will replace both ENGL 15/ENGL 30H and CAS 100A/CAS 100B/CAS 100C. Each course is 3 credits.

Advising Notes:

- Courses with 497 numbers and 500 level courses MAY be eligible for substitution for the above list. Consult your adviser *and* the program coordinator concerning substitution *prior* to registration in the course.
- BMB selection follows Organic Chemistry selection. Students enrolled in CHEM 202, 203 must select BMB 211/212/221. Students cannot receive credit for both BMB 211 and BMB 401.
- Students wishing to attend veterinary or graduate school are encouraged to select courses required for matriculation at their future institutions.

Veterinary and Biomedical Sciences, B.S. at Commonwealth Campuses

The course series listed below provides **only one** of the many possible ways to move through this curriculum. The University may make changes in policies, procedures, educational offerings, and requirements at any time. This plan should be used in conjunction with your degree audit (accessible in LionPATH as either an **Academic Requirements** or **What If** report). Please consult with a Penn State academic adviser on a regular basis to develop and refine an academic plan that is appropriate for you.

First Year

Fall	Credits Spring	Credits
AGBM 101, ECON 102, or ECON 104 [†]	3 CHEM 112 [†]	3
CHEM 110 ^{*#†}	3 CHEM 113 [†]	1
CHEM 111 ^{*#†}	1 MATH 141 ^{††}	4
MATH 140 ^{††}	4 ENGL 15, 30H, or ESL 15 ^{††}	3
General Education Course	3 General Education Course	3
First-Year Seminar	1-3 General Education Course	3
15-17		17

Second Year

Fall	Credits Spring	Credits
BIOL 110 ^{*#†}	4 BIOL 220W, 230W, 240W, or BMB 251	3-4
CHEM 202 or 210	3 CHEM 203 or 212 <i>and</i> 213	3-5
PHYS 250	4 PHYS 251	4
CAS 100A, 100B, or 100C ^{††}	3 General Education Course	3
General Education Course	3	
17		13-16

Third Year

Fall	Credits Spring	Credits
STAT 250 or 200	3-4 MICRB 201	3
ANSC 201 [*]	4 MICRB 202	2
BMB 401 or 211 <i>and</i> 212	3 BMB 402 or 221	2-3
BIOL 222 [*]	3 VBSC 211	3
Elective	3 ENGL 202C ^{††}	3
	General Education Course	3
16-17		16-17

Fourth Year

Fall	Credits Spring	Credits
ANSC 301 [*]	3 BIOL 472 or ANSC 423	3
VBSC 421	4 Supporting Course 400 Level [*]	3
VBSC 403 [*]	3 Elective	3
Supporting Course 400 Level [*]	3 Elective	3
Supporting Course 400 Level [*]	3 Elective	3
16		15

Total Credits 125-132

† Course satisfies General Education and degree requirement

University Requirements and General Education Notes:

US and IL are abbreviations used to designate courses that satisfy Cultural Diversity Requirements (United States and International Cultures).

W, M, X, and Y are the suffixes at the end of a course number used to designate courses that satisfy University Writing Across the Curriculum requirement.

General Education includes Foundations (GWS and GQ), Knowledge Domains (GHW, GN, GA, GH, GS) and Integrative Studies (Inter-domain) requirements. N or Q (Honors) is the suffix at the end of a course number used to help identify an Inter-domain course, but the inter-domain attribute is used to fill audit requirements. Foundations courses (GWS and GQ) require a grade of 'C' or better.

Advising Notes:

- Students should consult with an academic adviser regarding selection of CHEM 202 and CHEM 203 versus CHEM 210, CHEM 212, and CHEM 213.
- If completing CHEM 212, CHEM 213 must also be completed.
- The BMB selection should be based on the student's Organic Chemistry selection. In most cases, students enrolled in CHEM 202 and 203 course select BMB 211, BMB 212, and BMB 221.
- Students cannot receive credit for both BMB 211 and BMB 401.
- Students that desire to attend veterinary school or graduate school are strongly encouraged to select additional animal biology courses in their elective selections.
- Students should consult with an academic adviser regarding the appropriate selection of supporting courses. Supporting courses must be selected from an approved list.
- Students should work with an academic adviser in the development of their plan as some courses are not taught every semester.

* Course requires a grade of C or better for the major

‡ Course requires a grade of C or better for General Education

Course is an Entrance to Major requirement