

**HARRISBURG AREA COMMUNITY COLLEGE (HACC) & SHIPPENSBURG UNIVERSITY (SU)  
TRANSFER GUIDE FOR BIOLOGY A.S. (#3096) AT HACC  
TO BIOLOGY B.S.**

<b>HACC COURSE</b>	<b>CRS.</b>	<b>SHIPPENSBURG UNIV. EQUIV. COURSE /AREA SATISFIED</b>	<b>CRS.</b>
<b>General Education Requirements (28 Credits)</b>			
ENGL 101 English Composition I	3	ENG 114 Academic Writing <sup>W</sup>	3
ENGL 102 English Composition II	3	ENG 250 Introduction to Literature <sup>L</sup>	3
COMM 101 Effective Speaking	3	HCS 100 Intro to Human Communication <sup>O</sup>	3
H&A: (choose one) ART 181, 182 HUM 101, MUS 104, THTR 101, SPN, FRCH, GRMN, or ARAB	3	Gen Ed: Arts <sup>A</sup> or Foreign Language <sup>F</sup>	3
S&BS: PSYC 101, or SOCI 201	3	Gen Ed: Diversity <sup>D</sup> or Critical Reasoning <sup>R</sup>	3
Mathematics Elective: MATH 104 <sup>2</sup>	3	Elective	3
Sci Elec: CHEM 101 Inorganic Chemistry I	4	CHM 121 Chemical Bonding w lab/Req <sup>N</sup>	4
Sci/Lab: BIOL 101 General Biology I	4	BIO 161 Principles of Bio: Cell Struc & Funct/Req <sup>N</sup>	4
Physical Education & Wellness	1	Elective	1
FYS: SCI 100	1	Elective	1
<b>Major Requirements (24 Credits)</b>			
BIOL 102 General Biology II	4	BIO 162 Principles of Bio: Organism Diversity/Req	4
CHEM 102 Inorganic Chemistry II	4	CHM 122 Chemical Dynamics w lab/Req	4
CHEM 203 Organic Chemistry I	4	CHM 221 Organic Chemistry I w lab/Req	4
CHEM 204 Organic Chemistry II	4	CHM 222 Organic Chemistry II w lab/Req	4
BIOL 215 Introduction to Genetics <sup>4</sup>	4	BIO 260 Genetics/Req	4
BIOL 221 Microbiology <sup>4</sup>	4	BIO 220 Microbiology/Req	4
<b>Other Required Courses/Transfer Electives (10 Credits)</b>			
HIST 101 or HIST 201	3	HIS 105 Historical Foundations of Global Cultures <sup>H</sup>	3
ENVS 201, GEOL 201, HIST 103, or PHIL 225	3	Gen Ed: Ethical Reasoning <sup>E</sup> or Citizenship <sup>S</sup>	3
MATH 116 College Algebra for Calculus <sup>2</sup>	4	MATH 140B College Algebra/Elective	4
<b>PROGRAM TOTAL CREDITS</b>	<b>62</b>	<b>TRANSFERABLE CREDITS</b>	<b>62</b>

**Overview of Shippensburg University's General Education Program**

The General Education Program at Shippensburg University comprises 45 of the credit hours required for graduation. It consists of 5 themes with 2-3 required course goals in each theme

-Foundations: 15 credits (3 credit first-year seminar not currently required for transfer students)

- Writing<sup>W</sup>, Oral Communication<sup>O</sup>, History<sup>H</sup>, Quantitative<sup>Q</sup>

-Interconnections: 9 credits required from 3 goals with at least 3 credits required in Diversity and 3 credits in Global Perspectives

- Diversity<sup>D</sup>, Global Perspectives<sup>G</sup>, Foreign Language<sup>F</sup>

-Citizenship & Responsibility: 6 credits required with no more than 1 course from the same goal category

- Citizenship<sup>S</sup>, Ethical Reasoning<sup>E</sup>, Critical Reasoning<sup>R</sup>

-Natural World & Technology: 9 credits required with at least 6 credits completed in the Natural World category

- Natural World<sup>N</sup>, Technology<sup>T</sup>

-Creativity & Expression: 6 credits required with at least 3 credits required in the Literature category

- Literature<sup>L</sup>, Arts<sup>A</sup>, Creative<sup>C</sup>

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<b>COURSES TO BE COMPLETED AT SHIPPENSBURG UNIVERSITY</b>
<b>General Education Requirements:</b> Per BOG Transfer Policy 1999-01-A, completion of an A.A. or A.S. degree from HACC will result in the waiver of the remainder of the general education requirements at Ship. This will result in the availability of additional free elective credits that must be completed to graduate with the minimum 120 credits required for the B.S.B.A. degree.
<b>Major Requirements: Biology Core Requirements (4 credits)</b>
BIO 499 Capstone Seminar in Biology – 1 credit
BIO 430 Principles of Evolution – 3 credits
<b>Physiology Elective (4 credits)</b>
BIO 350 Human Physiology or BIO 351 Animal Physiology
<b>Additional Biology Electives (14 credits)</b> At least 6 credits must be at the 300 level or higher
<b>Allied Fields (15-16 credits)</b>
Choose One (1): MAT 117B – Applied Statistics B or MAT 217 Statistics I – 3-4 credits
MAT 211 Calculus I – 4 credits <sup>2</sup> (Required Gen Ed)
PHY 121 Introductory Physics I and PHY 123 Physics Ia Laboratory – 4 credits (Required Gen Ed)
PHY 122 Introductory Physics II and PHY 125 Physics IIa Laboratory – 4 credits
<b>Free Electives (20-21 credits)</b>
Students should consult with their SU Academic Advisor to discuss the possibility of completing additional courses in Biology, allied disciplines, or toward a minor.

**NOTES (IMPORTANT – PLEASE READ)**

1. Courses for Shippensburg University have been selected by joint agreement of HACC and SU. However, curricula are subject to change. This guide should be used with the assistance of a HACC Counselor/Advisor. Please speak with your advisor and/or the SU transfer advisor if you have any questions.
2. Students should start at the highest level possible based on math placement since Calculus I is required for Biology majors at SU. Additional 100-level math courses that are required at HACC to reach the Math 121 (MAT 211 Calculus I at SU) level will count as electives at SU. If students have not completed MATH 121 at HACC, they can achieve eligibility to take MATH 211 at SU by completing MATH 119 Pre-Calculus OR both MATH 104 Trigonometry AND MATH 116 College Algebra for Calculus with a C or higher at HACC.
3. Student must meet the following pre-requisites for admission into the major:
  - 2.0 GPA and must earn a grade of C or better in BIO 161 or BIO 162 and one of the following: CHM 121 or MAT 175
4. Please consult with HACC and/or SU advisor about completing an alternate Biology elective if course isn't available.

**FOR FURTHER INFORMATION CONTACT:**

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