

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

HACC COURSE	CRS.	SHIPPENSBURG UNIV. EQUIV. COURSE /AREA SATISFIED	CRS.
<b>Gen Ed Requirements (28 Credits)</b>			
COMM 101 Effective Speaking	3	COST 100 Intro to Human Communication <sup>O</sup>	3
ENGL 101 English Composition I	3	ENGL 114 Academic Writing <sup>W</sup>	3
ENGL 102 English Composition II	3	GETR 028 Gen Ed Trans Crtvty&Expr-Lit <sup>L</sup>	3
First-Year Seminar: SCI 100	1	Elective	1
Humanities & Arts Core Elective: Choose any <sup>3</sup>	3	Gen Ed/Elective	3
Math Elective: MATH 103 College Algebra <sup>4</sup>	3	Elective	3
Sci Elec: CHEM 101 Inorganic Chemistry I	4	CHEM 121 Chemical Bonding w lab/Required <sup>N</sup>	4
Sci/Lab: BIOL 101 General Biology I	4	BIOL 161 Prin of Bio: Cell Struc & Funct/Required <sup>N</sup>	4
S&BS: Choose any <sup>3</sup>	3	Gen Ed/Elective	3
Physical Education & Wellness	1	Elective	1
<b>Major Requirements (24 Credits)</b>			
BIOL 102 General Biology II	4	BIOL 162 Prin of Bio: Organismal Diversity/Required	4
CHEM 102 Organic Chem & Qualitative Analysis	4	CHEM 122 Chemical Dynamics & 126 Lab/Required	4
CHEM 203 Organic Chemistry I	4	CHEM 221 Organic Chemistry I & 225 Lab/Required	4
CHEM 204 Organic Chemistry II	4	CHEM 222 Organic Chemistry II & 226 Lab/Required	4
BIOL 215 Introduction to Genetics <sup>6</sup>	4	BIOL 260 Genetics/Required	4
BIOL 221 Microbiology <sup>6</sup>	4	BIOL 220 Microbiology/Required	4
<b>Other Req./Transfer Elec (10 Credits)</b>			
MATH 119 Pre-Calculus <sup>4</sup>	4	Gen Ed/Elective	4
Transfer Electives	6	Gen Ed/Electives	6
<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>

**HARRISBURG AREA COMMUNITY COLLEGE & SHIPPENSBURG UNIVERSITY  
TRANSFER GUIDE FOR BIOLOGY HEALTH PROFESSIONS B.S.**

<b>COURSES TO BE COMPLETED AT SHIPPENSBURG UNIVERSITY</b>
<b>Major Requirements: Biology, Health Professions Concentration Core Requirements (1 credit)</b>
BIOL 499 Capstone Seminar in Biology – 1 credit
<b>Upper Division and Additional Biology Electives (22-23 credits)</b>
BIOL 350 Human Physiology <b>OR</b> BIOL 351 Animal Physiology – 4 credits
BIOL 370 Comp Vertebrate Anatomy <b>OR</b> BIOL 371 Human Anatomy <b>OR</b> BIOL 375 Histology – 3-4 credits
BIOL 385 Cell Biology <b>OR</b> BIOL 418 Molecular Biology – 3 credits
Breadth Elective: Choose one course from Breadth Elective list – 3 credits
Additional Biology Electives (9 credits), should be selected with advisement
<b>Allied Fields (15-16 credits)</b>
Choose One (1): MATH 117 – Applied Statistics or MATH 217 Statistics I – 3-4 credits
MATH 211 Calculus I – 4 credits (Required Gen Ed)
PHYS 121 Intro Physics I or PHYS 205 Interm. Physics I & PHYS 123 Physics Ia Laboratory – 4 credits (Required Gen Ed)
PHYS 122 Intro Physics II or PHYS 206 Interm. Physics II & PHYS 125 Physics IIa Lab – 4 credits
CHEM 301 Biochemistry I – 3 credits
<b>Additional Biology Electives/Free Electives (18-20 credits)</b>

**NOTES (IMPORTANT – PLEASE READ)**

- 0-Level courses do not count toward graduation requirements and will not transfer.
- Courses for Shippensburg University have been selected by joint agreement of HACC and SU. However, curricula are subject to change. Please speak with your advisor and/or the SU transfer counselor if you have any questions. A transfer counselor from SU visits HACC campuses on a regular basis throughout the academic year. Call the SU Office of Admissions for the specific day and time.
- Completion of an Associate of Arts or Associate of Science degree will result in the waiver of remaining general education requirements at SU; as a result, any course can be chosen for this category. Required major gen eds and major coursework will be listed as needed/permitted in this guide. Please consult with the SU transfer advisor with any questions.
- 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 (MATH 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.
- Student must meet the following pre-requisites for admission into the major: 2.8 GPA and must earn a grade of C or better in BIOL 161 or BIOL 162 and one of the following: CHEM 121 or MATH 140
- Please consult with HACC and/or SU advisor about completing an alternate Biology elective if course isn't available.
- The information in this guide may be subject to change. Therefore, students are advised to note the date on the guide and periodically check with the HACC Advising Center for an updated guide. Students are also advised to use this guide with the assistance of a HACC Counselor/Advisor. Following this guide does not guarantee transfer of credit or admission to Shippensburg University.**

**FOR FURTHER INFORMATION CONTACT:**

**Dr. Todd Hurd**  
Professor and Chair  
Biology Department  
[biology@ship.edu](mailto:biology@ship.edu)  
(717) 477-1751  
[www.ship.edu/biology](http://www.ship.edu/biology)

**Mr. Damian Morales**  
Assistant Director of Admissions  
Shippensburg University  
[dmorales@ship.edu](mailto:dmorales@ship.edu)  
(717) 477-1231  
[www.ship.edu/admissions/transfers](http://www.ship.edu/admissions/transfers)

**Ms. Allena McCloud**  
Pathways Transfer Coordinator  
Harrisburg Area Community College  
[transfer@hacc.edu](mailto:transfer@hacc.edu)  
(717) 221-1750  
<https://www.hacc.edu/Students/AcademicSupport/TransferServices/index.cfm>