

**HARRISBURG AREA COMMUNITY COLLEGE (HACC) & SHIPPENSBURG UNIVERSITY (SHIP)
TRANSFER GUIDE FOR BIOLOGY A.S. (#3096) AT HACC
TO BIOLOGY B.S., BIOLOGY-BIOTECHNOLOGY B.S., BIOLOGY-CLINICAL SCIENCES B.S., BIOLOGY-
ECOLOGY AND ENVIRONMENTAL B.S., BIOLOGY HEALTH PROFESSIONS B.S. or BIOLOGY-
SECONDARY EDUCATION B.S.^{6,7} AT SHIPPENSBURG UNIVERSITY**

HACC COURSE	CRS.	SHIPPENSBURG UNIV. EQUIV. COURSE /AREA SATISFIED	CRS.
General Education Requirements (28 Credits)			
ENGL 101 English Composition I	3	ENG 114 Writing Intensive First Year Seminar ^W	3
ENGL 102 English Composition II	3	ENG 250 Introduction to Literature ^L	3
COMM 101 Effective Speaking	3	HCS 100 Intro to Human Communication ^O	3
H&A: (choose one) ART 181, 182 HUM 101, MUS 104, THTR 101, SPN, FRCH, GRMN, or ARAB	3	Gen Ed: Arts ^A or Foreign Language ^F	3
S&BS: PSYC 101, or SOCI 201	3	Gen Ed: Diversity ^D or Critical Reasoning ^R	3
Mathematics Elective: MATH 104 ⁵	3	MATH 009 Elective ²	3
Math or Science Elective: MATH 119 ⁵	4	MAT 175 Pre-Calculus ^Q	4
Sci/Lab: BIO 101 General Biology I	4	BIO 161 Prin of Bio: Cell Struc & Funct/Requirement ^N	4
Physical Education & Wellness	1	Elective ²	1
FYS: SCI 100	1	Elective ²	1
Major Requirements (38 Credits)			
BIOL 102 General Biology II	4	BIO 162 Prin of Bio: Organism Diversity/Requirement	4
CHEM 101 Inorganic Chem I	4	CHM 121 Chemical Bonding w lab/Requirement ^N	4
CHEM 102 Inorganic Chemistry II	4	CHM 122 Chemical Dynamics w lab/Requirement	4
CHEM 203 Organic Chemistry I	4	CHM 221 Organic Chemistry I w lab/Requirement	4
CHEM 204 Organic Chemistry II	4	CHM 222 Organic Chemistry II w lab/Requirement ⁶	4
BIOL 215 Introduction to Genetics	4	BIO 260 Genetics/Requirement	4
BIOL 221 Microbiology	4	BIO 220 Microbiology/Requirement	4
Transfer Elective: PHYS 201	4	PHY 121 Intro Phy I Lecture w lab/Requirement ^N	4
Transfer Elective: PHYS 202	4	PHY 122 Intro Phy II Lecture w lab/Requirement	4
PROGRAM TOTAL CREDITS	66	TRANSFERABLE CREDITS	66²

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^W, Oral Communication^O, History^H, Quantitative^Q

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

- Diversity^D, Global Perspectives^G, Foreign Language^F

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

- Citizenship^S, Ethical Reasoning^E, Critical Reasoning^R

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

- Natural World^N, Technology^T

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

- Literature^L, Arts^A, Creative^C

-OVER-

**HARRISBURG AREA COMMUNITY COLLEGE & SHIPPENSBURG UNIVERSITY
TRANSFER GUIDE FOR BIOLOGY AND BIOLOGY HEALTH PROFESSIONS**

NOTES (IMPORTANT, PLEASE READ)

1. Additional transfer credits may be taken at HACC for transfer to Shippensburg. Please speak with your advisor and/or the SU transfer advisor for advisement on additional coursework.
2. 0-Level courses do not count toward graduation requirements and will not transfer. The amount of free elective credits varies from 0 to 14 credits. Please check with the SU transfer advisor for further information.
3. 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 the Wildwood campus on a bi-weekly basis through the academic year. Call the SU Office of Admissions for the specific day and time.
4. In order to transfer into the Biology program at Shippensburg, students must have at least a 2.5 (2.8 for Health Professions or a 3.0 for education) cumulative GPA and have completed the equivalent of BIO 161 or BIO 162 with a grade of C or higher in addition to the equivalent of CHM 121 or MAT 175 (Pre-Calculus) with a grade of C or higher.
5. These courses fulfill Associate Degree requirements for HACC but may be replaced with higher level MATH. MATH 121 Calculus I (MAT 211 Calculus I at SHIP) and MATH 202 Statistics (MAT 117 Applied Statistics at SHIP) are required for all Biology majors at Shippensburg University. MATH 103 may be required prior to taking MATH 104 but is dependent on Placement Testing and/or SAT score results.
6. This course will count as an elective for the following major options: Clinical Sciences, Health Professions (depends on area of focus), and Secondary Education.
7. **FOR BIOLOGY EDUCATION MAJORS ONLY**
 - 7.1. Please see the Required Forms and Clearances for Education Majors Document on Shippensburg University's website at the following link: http://www.ship.edu/COEHS/Field_Services/Clearance_Information/
 - 7.2. **Applicants with more than 48 credits are strongly encouraged to meet the PA Basic Academic Skills Requirement prior to transferring to Shippensburg. Options include meeting the required minimum scores on the PAPA series, CORE series, SAT, or ACT. Failure to do so could result in not being able to take education courses until the requirement is met.**
http://www.ship.edu/uploadedFiles/Ship/COEHS/Field_Services/Basic%20Skills%20Requirement.pdf

FOR FURTHER INFORMATION CONTACT

Dr. Todd Hurd
Professor and Chair
Biology Department
Shippensburg University
biology@ship.edu
(717) 477-1401
www.ship.edu/biology

Mr. Damian Morales
Assistant Dean of Admissions
Shippensburg University
dmorales@ship.edu
(717) 477-1231 or 800-822-8028
www.ship.edu/admissions/transfers

Mr. Jeffrey Newhard
Counselor/Associate Professor
Harrisburg Area Community College
jnewhar@hacc.edu
(717) 780 - 2498