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

## TO BIOLOGY-ECOLOGY, ENVIRONMENT & CONSERVATION B.S., AT SHIPPENSBURG UNIVERSITY

General Education Requirements (24 Credits)  ENGL 101 English Composition I 3 ENG 114 Academic Writing W  ENGL 102 English Composition II 3 ENG 250 Introduction to Literature L  COMM 101 Effective Speaking 3 HCS 100 Intro to Human Communication H&A: (choose one) ART 181, 182 HUM 3 Gen Ed: Arts or Foreign Language HCS 100 Intro to Human Communication Gen Ed: Arts or Foreign Language Gen Ed: Ethical Reasoning Gen Art Gen Ed: Ethical Reasoning Gen Ed: Ethical R	URSE CRS.	SHIPPENSBURG UNIV. EQUIV. COURSE /AREA SATISFIED	CRS.	HACC COURSE
ENGL 101 English Composition I  ENGL 102 English Composition II  ENGL 102 English Composition II  COMM 101 Effective Speaking  H&A: (choose one) ART 181, 182 HUM  101, MUS 104, THTR 101, SPN, FRCH, GRMN, or ARAB  S&BS: PSYC 101, or SOCI 201  Sci Elec: CHEM 101 Inorganic Chemistry  Sci/Lab: BIOL 101 General Biology I  Physical Education & Wellness  Elective  Major Requirements (28 Credits)  BIOL 102 General Biology II  HBIO 162 Principles of Bio: Organism Diversity/R  CHEM 203 Organic Chemistry II  CHEM 204 Organic Chemistry II  CHEM 204 Organic Chemistry II  Elective  CHEM 204 Organic Chemistry II  CHEM 204 Organic Chemistry II  BIOL 212 Botany <sup>4</sup> BIOL 221 Microbiology <sup>4</sup> Other Required Courses/Transfer Electives (10 Credits)  HIST 101 or HIST 201  S ENG 250 Introduction to Literature <sup>L</sup> BNC 100 Intro to Human Communication <sup>O</sup> Gen Ed: Arts <sup>A</sup> or Foreign Language <sup>F</sup> Gen Ed: Edication Human Communication of Global Culture  Gen Ed: Ethical Reasoning <sup>E</sup> or Citizenships <sup>S</sup>		/AREA SATISFIED	its)	General Education Requirements (24 Cred
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	3	Gen Ed: Ethical Reasoning <sup>E</sup> or Citizenship <sup>S</sup>	3	ENVS 201, GEOL 201, HIST 103, or PHIL 225
	4	MAT 140B College Algebra/Elective	4	MATH 116 College Algebra for Calculus <sup>2</sup>
PROGRAM TOTAL CREDITS 62 TRANSFERABLE CREDITS	62	TD ANGEED ADI E CDEDUC	(2	DDOCDAM TOTAL ODEDUTO

#### 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: ECOLOGY, ENVIRONMENT AND CONSERVATION B.S.

# COURSES TO BE COMPLETED AT SHIPPENSBURG UNIVERSITY

**General Education Requirements:** 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 SU. 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.

# Major Requirements: Ecology, Environment and Conservation Concentration Core Requirements (8 credits)

BIO 242 Ecology -3 credits

BIO 260 Genetics – 4 credits

BIO 499 Capstone Seminar in Biology – 1 credit

#### **Upper Division Electives (16 credits)**

BIO 350 Human Physiology – 4 credits or BIO 351 Animal Physiology – 4 credits

BIO 444 Conservation Biology – 3 credits or BIO 483 Wildlife and Fisheries Management – 3 credits

Ecology Electives – Choose 3 classes from SU elective list (9 credits)

# **Additional Biology Electives (6 credits)**

Choose from Biology Electives List for Concentration

#### Allied Fields (11-12 credits)

Choose One (1): MAT 117B – Applied Statistics B or MAT 217 Statistics I – 3-4 credits

MAT 211 Calculus I – 4 credits (Required Gen Ed)

PHY 121 Introductory Physics I and PHY 123 Physics Ia Laboratory – 4 credits (Required Gen Ed)

#### Free Electives (16-17 credits)

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:
  - a. 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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