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| **Harrisburg Area Community College** **AA (Liberal Arts) Requirements** | **Juniata College Curriculum**  |
| ENGL 101 English Composition I 3ENGL 102 English Composition II **(or)** 3ENGL 104 Technical Writing (3)COMM 101 Effective Speaking 3BIOL 101 General Biology I 4BIOL 102 General Biology II 4ENVS 201 Intro to Environmental Science I 4 4GIS 141 Intro to Geospatial Technology 3MATH 103 College Algebra **(or)** 3MATH 104 Trigonometry **(or)** (3)MATH 119 Pre-Calculus **(or)** (3)MATH 121 Calculus (3)MATH 202 Introduction to Statistics (Core C) 4 CHEM 101 General Inorganic Chemistry 4CHEM 102 General Inorganic Chem & Qual Anal 4BIOL 206 Ecology 4BIOL 212 Botany 4ENVS 220 Envi Laws, Regulations & Compliance 3 PHYS 201 General Physics 4 GEOL 201 Environmental Geology 3/4  Transfer electives (review required courses at JC to avoid overlap) 9  | All students with 60 (or more credits) will receive credit for:* First-Year Composition (FYC) (3 credits)
* First-Year Seminar (FYS) (3 credits)
* 3 - Ways of Knowing (~9 credits)
* 3 - Self & the World (~9 credits)
* Block Transfer for all other courses

Environmental Science Courses Waived:* ESS 100 – Environmental Systems I (3)
* ESS 110 – Environmental Systems II (3)
* CH 142 – Integrated Chemistry Principles I (3)
* CH 143 – Integrated Chemistry Principles Lab I (1)
* CH 144 – Integrated Chemistry Principles II (3)
* CH 145 – Integrated Chemistry Principles Lab II (1)
* PC 200 – General Physics I (3)
* PC 202L – General Physics Lab I (1)
* BI 105 – Biological Diversity & Ecology (3)
* BI 121 – Biology Lab (1)
* BI 300 – General Ecology (3)
* BI 301 – General Ecology Lab (1)
* ESS 230 – Environmetrics (3)
* MA 130 – Calculus (4)
* ESS 330 – Geographical Information Systems (3)
* ESS 337 – Environmental Law (3)
 |
| 60 credits | 60 credits  |

**HACC-Juniata Environmental Science Transfer Academic Plan**

\*\*\*Guaranteed credit transfer for all 100+ level courses where a C- or high was achieved

**Academic Roadmap**

(Program options include: Environmental Science, Wildlife Conservation, Fisheries & Aquatic Science)

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| --- | --- |
| **Fall 2020**  | **Spring 2021 – Study Abroad experience or Raystown Field Station possible** |
| * First/Transfer Year Foundations (1 credit)
* Ways of Knowing (3 credits)
* ESS 301 – Environmental Methods (3 credits)
* \*Free Elective\*
* \*Free Elective\*
 | * ESS 310 – Water Resources (3 credits)
* \*Free Elective\*
* \*Free Elective\*
* \*Free Elective\*
* \*Free Elective\*
 |
| **Fall 2021** | **Spring 2022**  |
| * Self & the World (3 credits)
* Ways of Knowing (3 credits)
* ESS 352 – Conservation Biology (3 credits)
* \*Free Elective\*
* \*Free Elective\*
 | * ESS 401 – Senior Capstone (3 credits)
* Connections (3 credits)
* \*Free Elective\*
* \*Free Elective\*
* \*Free Elective\*
 |

Students will need to take an additional 9 credits from the list below. This is not an exhaustive list and other courses may be used in consultation with students’ advisor:

* ESS 305 – Environmental Economics
* ESS 324 – Natural Resource Management
* ESS 328 – Limnology
* ESS 350 – Field Research Methods
* ESS 361 - Field Methods in Marine Systems (India)
* ESS 362 – Island Ecosystems (India)
* ESS 363 – Upland Process & Estuaries (India)
* ESS 364 – Culture, Class and Gender (India)
* ESS 380 – Sense of Place
* ESS 410 – Water Resources II
* BI 305 – Biostatistics
* BI 360 – Vertebrae Zoology
* BI 361 – Vertebrae Zoology Lab
* BI 323 – Mammology
* BI 324 – Ornithology
* BI 327 – Botany
* BI 350 – Invertabrae Zoology
* BI 351 - Invertabrae Zoology Lab
* BI 370 – Herpetology
* BI 432 – Environmental Toxicology