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| **Pennsylvania Highlands Community College AA** **(Liberal Arts & Sciences) Requirements** |  | **Juniata College Curriculum**  |
| ACP 100 Academic and Career PlanningENG 110 English Composition I ENG 200 English Composition II (or) ENG225 Technical Writing COM 101 Pubic Speaking BIO 104/114 General Biology I w/Lab BIO 106/116 General Biology II w/LabAGR105/115 Botany 4MAT Elective: MAT145 College Algebra (or)  MAT170 Pre-Calculus (or) MAT210 Calculus (or) CHM 120 General Chemistry 1 CHM 122 General Chemistry 2 \*Open ElectiveMAT 200 Probability and Statistics PHY110/111 Physics 1 (Algebra Based) GLG 102/103 Geology \*Social Science Track 1 Elective\*Humanities/Social Science Elective\*Humanities Tack 1 Elective\*Humanities Track 1 or 2 Elective\*Social Science Track 2 ElectiveTransfer electives (review required courses at JC to avoid overlap)  | 13333/13/13/13 or 444333/13/13333318 | 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 (4)
* 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 101 – General Biology I (4)
* BI 300 – General Ecology (3)
* BI 301 – General Ecology Lab (1)
* ESS 230 – Environmetrics (3)
* MA 130 – Calculus (4)
 |
| 61 credits |  | 60 credits  |

**Pennsylvania Highlands Community College-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 2021**  | **Spring 2022 – 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)
* ESS 310 – Water Resources (3 credits)
* \*Free Elective\*
* \*Free Elective\*
 | * \*Free Elective\*
* \*Free Elective\*
* \*Free Elective\*
* \*Free Elective\*
 |
| **Fall 2022** | **Spring 2023**  |
| * 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 340 - Forestry
* ESS 380 – Sense of Place
* ESS 330 – Geographic Information Systems
* ESS 335 – Quantative Ecology
* ESS 337 – Environmental Law
* ESS 377 – Advanced topics in Geographic Information Systems
* ESS 410 – Water Resources II
* ESS 445 – Fisheries Management
* BI 305 – Biostatistics
* BI 360 – Vertebrate Zoology
* BI 361 – Vertebrate Zoology Lab
* BI 323 – Mammalogy
* BI 324 – Ornithology
* BI 327 – Botany
* BI 350 – Invertebrate Zoology
* BI 351 - Invertebrate Zoology Lab
* BI 370 – Herpetology
* BI 432 – Environmental Toxicology