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| **Pennsylvania Highlands Community College AA**  **(Liberal Arts & Sciences) Requirements** |  | **Juniata College Curriculum** |
| ACP 100 Academic and Career Planning  ENG 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/Lab  AGR105/115 Botany 4  MAT Elective: MAT145 College Algebra (or)  MAT170 Pre-Calculus (or)  MAT210 Calculus (or)  CHM 120 General Chemistry 1  CHM 122 General Chemistry 2  \*Open Elective  MAT 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 Elective  Transfer electives  (review required courses at JC to avoid overlap) | 1  3  3  3  3/1  3/1  3/1  3 or 4  4  4  3  3  3/1  3/1  3  3  3  3  3  18 | 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