

## Biology – Transfer Academic Plan with Juniata College

Semester One (Penn Highlands)	Semester Two (Penn Highlands)
FYE 101: First Year Experience	ENG 200: English Composition II
ENG 110: English Composition I	BIO 106: Principles of Biology II Lecture
BIO 104: Principles of Biology I Lecture	BIO 116: Principles of Biology II Lab
BIO 114: Principles of Biology I Lab	English Elective
CHM: 120 General Chemistry I	Math/Science Elective
Math Elective	Math Elective

Summer Semester (Penn Highlands)
PHY 110: Physics I Lecture
PHY 111: Physics I Lab
CIT 100: Microcomputer Apps

Semester Three (Penn Highlands)	Semester Four (Penn Highlands)
Science Elective	Communication Elective
Values and Ethics Elective	Cultural Awareness and Global Perspectives Elective
Open Elective	Social Science Elective
Open Elective	Science Elective

Semester Five (Juniata College)	Semester Six (Juniata College)
FYF 101: Transfer/First-Year Foundations	CH-232: Organic Chemistry I
CH-144: Integrated Chem Principles II	CH-233: Organic Chemistry I Lab
CH-145: Integrated Chem Principles II Lab	Ways of Knowing
Connections	Self & the World
Biology Elective	Biology Elective

Semester Seven (Juniata College)	Semester Eight (Juniata College)
Ways of Knowing	ND-498: Natural Sciences Capstone
Self & the World	Biology Elective
Biology Elective	Free Elective
Biology Elective	Free Elective

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### Juniata College – Biology Elective Course Options

Students must take 3-4 credits in each category from the following courses.

Courses with \* are crossed in more than one category and may be taken to fulfill the requirement for either, but not both, category.

<p><b><u>EVOLUTION/ECOLOGY</u></b>                      BI-300 General Ecology                      BI-301 General Ecology Lab                      BI-312 Altered Ecosystems                      BI-325 Plant Ecology                      BI-326 Plant Ecology Lab                      BI-339 Organic Evolution                      BI-344 Winter Dendrology                      BI-362 Animal Behavior*                      BI-384 Experiential Ecology                      BI-432 Environmental Toxicology                      BI-437 Molecular Ecology*                      ESS-325 Conservation Biology                      ESS-328 Limnology                      ESS-320 Environmental Monitoring</p>	<p><b><u>CELLULAR &amp; MOLECULAR</u></b>                      BI-316 Molecular &amp; Cellular Biology                      BI-317 Principles of Genetics*                      BI-318 Developmental Biology*                      BI-331 Molecular Microbiology                      BI-332 Molecular Microbiology Lab                      BI-340 Medical Microbiology*                      BI-437 Molecular Ecology*                      BI-450 Neurobiology                      BI-470 Genomics                      CH-312 Biochemistry                      CH-418 Advanced Biochemistry</p>	<p><b><u>WRITING IN BIOLOGY</u></b>                      BI-314 Talk Nerdy to Me                      BI 315 Grant Writing for STEM</p>
		<p><b><u>MENTORED EXPERIENCE</u></b>                      BI-380 Biology Research Methods                      BI-384 Experiential Ecology                      BI-489 Biology Research                      BI-490/495 Internship and Sem.                      BI-TUT Biology Tutor                      ED 450/451 (Bio 2<sup>nd</sup> Ed POEs)                      HP 300 Health Navigator Practicum                      HP 490/495 Internship and Sem.</p>
	<p><b><u>ORGANISMAL</u></b>                      BI-310 Physiology                      BI-317 Principles of Genetics*                      BI-318 Developmental Biology*                      BI-323 Mammalogy                      BI-324 Ornithology                      BI-327 Botany                      BI-333 Plant Diversity                      BI-340 Medical Microbiology*                      BI-350 Invertebrate Zoology                      BI-351 Invertebrate Zoology Lab</p>	<p>BI-360 Vertebrate Zoology                      BI-361 Vertebrate Zoology Lab                      BI-362 Animal Behavior*                      BI-367 Anatomy                      BI-368 Anatomy Lab                      BI-370 Herpetology                      BI-417 Reproductive Biology                      PC-317 Medical Physics</p>