

Harper Transfer Guide for NEIU STEM Majors

Biology

- General Biology I (BIO 201) – Principles of Biology (BIO 110) at Harper
- General Biology II (BIO 202) – General Zoology (BIO 140) or General Botany (BIO 120) at Harper

Human Physiology (BIO 161) with a Lab at Harper would transfer as a Biology Elective to fulfill one of the 5 electives required by the major.

Required Courses in a Related Field:

- Calculus I (MATH 187) - Calculus with Analytical Geometry (MTH 200) at Harper or Statistics (MATH 275) - No equivalent course at Harper
- General Chemistry I (CHEM 211) - General Chemistry 1 (CHM 121) at Harper
- General Chemistry II (CHEM 212) – General Chemistry II (CHM 122) at Harper
- Organic Chemistry I (CHEM 231) - Organic Chemistry I (CHM 204) at Harper
- Physics I (PHYS 201 or 206) with lab (PHYS 203) – Introductory Physics I (PHY 121) **or** General Physics I (PHY 201) at Harper
- Physics 2 (PHYS 202 or 207) with lab (PHYS 204) – Introductory Physics II (PHY122) **or** General Physics II (PHY 202) at Harper

Psychology

- General Psychology (PSYC 200) - Intro to Psychology (PSY 101) at Harper
- Child Psychology (PSYC 215) - Child Psychology I (PSY 216) at Harper

Pre-requisites for Psychology 202, Statistics and Research Methods I and 302, Statistics and Research Methods II are also helpful to take before transfer:

- Writing I & II (ENGL 101 & 102) – Composition (ENG 101 & 102) at Harper

Computer Science

- Programming I (CS 200) – Java Programming I (CIS 168) or Computer Science I (CSC 121) or Introduction to Java Programming (CSC 214) at Harper
- Programming II (CS 207) – Java Programming II (CIS 178) or Computer Science II (CSC 122) or Data Structure & Algorithm (CSC 216) at Harper
- Computer Organization with Assembler Language Programming (CS 301) – Assembly Language/ Machine Organization (CSC 217) at Harper
- Discrete Structures (CS 201) – Discrete Mathematics (MTH 220) at Harper

Computer Science (cont'd)

- **Required Course for Technical Programming Concentration:**
 - o Event-Driven Programming (CS 317) – Visual Basic Programming (CIS 231) at Harper

Chemistry

- General Chemistry I (CHEM 211) – General Chemistry I (CHM 121) at Harper
- General Chemistry II (CHEM 212) – General Chemistry II (CHM 122) at Harper
- Quantitative Analysis (CHEM 213) – Quantitative Analysis (CHM 210) at Harper
- Organic Chemistry I (231) – Organic Chemistry I (CHM 204) at Harper
- Organic Chemistry II (232) – Organic Chemistry II (CHM 205) at Harper

Math

- Calculus I (MATH 187) – Calculus with Analytical Geometry I (MTH200) at Harper
- Calculus II (MATH 202) – Calculus with Analytical Geometry II (MTH201) at Harper
- Calculus III (MATH 203) - Calculus with Analytical Geometry III (MTH202) at Harper
- Linear Algebra I (MATH 243) – Linear Algebra I (MTH 203) at Harper

Earth Science

- Physical Geology (ESCI 211) – Physical Geology (GEO 101) at Harper
- Historical Geology (ESCI 312) – Historical Geology (GEO102) at Harper
- Rocks and Minerals (ESCI 306) – Rocks and Minerals (GEO 201) at Harper

Required Courses in a Related Field:

- General Chemistry I (CHEM 211) – General Chemistry I (CHM 121) at Harper
- Calculus I (MATH 187) - Calculus with Analytical Geometry I (MTH200) at Harper
- Physics I (PHYS 201 or 206) with lab (PHYS 203) – Introductory Physics I (PHY 121) **or** General Physics I (PHY 201) at Harper

One of the following two options:

- Calculus II (MATH 202) - Calculus with Analytical Geometry II (MTH201) at Harper
- Statistics (MATH 275) – No equivalent course at Harper

Earth Science (cont'd)

Two of the following options:

- General Biology I (BIO 201) – Principles of Biology (BIO 110) at Harper
- General Biology II (BIO 202) – General Zoology (BIO 140) or General Botany (BIO 120) at Harper
- General Chemistry II (CHEM 212) - General Chemistry II (CHM 122) at Harper
- Quantitative Analysis (CHEM 213) – Quantitative Analysis (CHM 210) at Harper
- Organic Chemistry I (231) – Organic Chemistry I (CHM 204) at Harper
- Physics 2 (PHYS 202 or 207) with lab (PHYS 204) – Introductory Physics II (PHY122) **or** General Physics II (PHY 202) at Harper
- Physics III (PHYS 215) – General Physics III (PHY 203) at Harper

Physics

- Physics I (PHYS 206) with lab (PHYS 203) – General Physics I (PHY 201) at Harper
- Physics 2 (PHYS 207) with lab (PHYS 204) –General Physics II (PHY 202) at Harper
- Physics III (PHYS 215) – General Physics III (PHY 203) at Harper

Required Courses in a Related Field:

- General Chemistry I (CHEM 211) - General Chemistry 1 (CHM 121) at Harper
- General Chemistry II (CHEM 212) – General Chemistry II (CHM 122) at Harper
- Pre-Calculus Mathematics (MATH 185) – Pre-Calculus (MTH 140) at Harper
- Calculus I (MATH 187) – Calculus with Analytical Geometry I (MTH200) at Harper
- Calculus II (MATH 202) – Calculus with Analytical Geometry II (MTH201) at Harper
- Calculus III (MATH 203) - Calculus with Analytical Geometry III (MTH202) at Harper