**120 Credit Hour Degree Requirement**

\*\*Must earn 30 credits of course work at the 300 level at Indiana University.

UCOL-U110 First Year Seminar (1 cr.)

**Area I English Composition and Communication Competency – 9 cr.**

Written Communication (6 cr.)

ENG-W131 Reading, Writing, and Inquiry (3 cr.)

A second writing course with ENG-W131 as a prerequisite, ENG-W270 (3 cr.), or ENG-W230 (3 cr.)

Oral communication (3cr.)

COMM-R110 Fundamentals of Speech Communication (3 cr.)

**Area II World Language Competency and Cultural Understanding Competencies– 7/8 cr.**

Students must have first-year proficiency in a world language e.g. a first-year sequence including a 131 and 132-level course in a world language. (8 cr.) or world language first semester (4 cr.) and a Cultural Understanding Gen Ed Elective (3 cr.)

**Area IIIA Arts and Humanities, Social Sciences– 9 cr.**

Art & Humanities Gen Ed Elective (3 cr.)

Social Sciences Gen Ed Elective (3 cr.)

Arts & Humanities or Social Science (3 cr.)

**Area IIIB Life and Physical Sciences Competency – 26 cr.**

Chemistry

Two semesters of Principles of Chemistry with laboratories. (10 cr.)

CHEM-C105/CHEM-C125 Chemistry 1/Lab (3 cr./2 cr.) [high school chemistry]

CHEM-C106/CHEM-C126 Chemistry 2/Lab (3 cr./2 cr.) [C- or higher in CHEM-C105]

Two semesters of organic chemistry lecture and one semester of laboratory. (8 cr.)

CHEM-C341/CHEM-C343 Organic Chemistry 1/Lab (3 cr./2 cr.) [C- or higher in CHEM-C106]

CHEM-C342 Organic Chemistry 2 (3 cr.) [C- or higher in CHEM-C341]

Physics

Two semesters of basic physics (8 cr.)

PHYS-P218 Physics 1 (4 cr.) [C- or higher in Math-154)

PHYS-P219 Physics 2 (4 cr.) [C- or higher in PHYS-P218]

**Area IIIC Analytical Reasoning Competency – 9 cr.**

MATH 15300 College Algebra (3 cr.) [C- or higher in Math-111, score of 50 on ALEKS]

MATH 15400 Trigonometry w/ Analytical Geometry (3 cr.) [C- or higher in Math 153, score of 65 on ALEKS]

CSCI-N207 Data Analysis Using Spreadsheets (3.cr.)

(or other computer science course with approval)

**Area IV Biology Major Requirements – 30 cr.**

Minimum Grade = C-, Minimum 2.0 GPA

Required Core Sequence

Concepts of Biology I and II (10 cr.)

BIOL-K101 Biology I (5.cr) (fall semester, every year) [C- or higher in Math-111, score of 50 on ALEKS]

BIOL-K103 Biology II (5.cr) (spring semester, every year) [C- or higher in Biology 1]

BIOL-K322 Genetics and Molecular Biology (3 cr.) (spring semester, every year) [C- or higher in BIOL-K103 & CHEM-C106]

BIOL-K324 Cell Biology (3 cr.) (fall semester, even years) [C- or higher in BIOL-K103]

BIOL-K341 Principles of Ecology and Evolution (3 cr.) (fall semester, every year) [C- or higher in BIOL-K103]

Upper-Level Courses

At least one lecture course from each of areas I-II listed below.

Three laboratory courses beyond BIOL-K101 / BIOL-K103 selected from areas below.

*Areas*

I. Molecular/Cellular Area (3 cr.)

* BIOL-K384 Biochemistry [3 cr.] [spring semester, odd years] [C: BIOL-K322 and CHEM-C341]

II. Organismal Area (3 cr.)

* BIOL-K356 Microbiology [3 cr.] [fall semester, odd years] [C- or higher in BIOL-K103 & CHEM-C341]
* BIOL-K411 Global Change Biology [3 cr.] [spring semester, even years]

*Laboratory Courses (select 3)*

* BIOL-K323 Genetics [2 cr.] [spring semester, every year]
* BIOL-K325 Cell Biology [2 cr.] [fall semester, even year]
* BIOL-K342 Principles of Ecology and Evolution [2 cr.] [fall semester, every year]
* BIOL-K357 Microbiology [2 cr.] [fall semester, odd year]

*Capstone (1 cr.)*

* BIOL-K490 Capstone [1 cr.] [fall, spring, summer],

OR

* BIOL-K493 Independent Research [1 cr.] [fall, spring, summer]

**Area V General Electives -26 cr.**

Example Biology B.A. Degree Plan for 8 Semesters

|  |  |  |  |
| --- | --- | --- | --- |
| *Course* | *CR* | *Course* | *CR* |
| **1st Year Fall Semester** | | **1st Year Spring Semester** | |
| BIOL-K 101 Concepts of Biology 1 | 5 | BIOL-K 103 Concepts of Biology 2 | 5 |
| CHEM-C 105 Principles of Chemistry 1 | 3 | CHEM-C 106 Principles of Chemistry 2 | 3 |
| CHEM-C 125 Experimental Chemistry 1 | 2 | CHEM-C 126 Experimental Chemistry 2 | 2 |
| COMM-R110 Fundamentals of Speech Communication | 3 | MATH 15300 College Algebra | 3 |
| UCOLL U 110 First Year Seminar | 1 | ENG-W 131 Reading, Writing, & Inquiry | 3 |
| Total | 14 | Total | 16 |
|  |  |  |  |
| **2nd Year Fall Semester** | | **2nd Year Spring Semester** | |
| BIOL-K 324 Cell Biology Lec (even yr.) | 3 | BIOL-K 322 Genetics & Molecular Lec | 3 |
| BIOL-K 325 Cell Biology Lab (even yr.) | 2 | BIOL-K323 Genetics & Molecular Lab | 2 |
| CHEM-C 341 Organic Chemistry 1 Lec | 3 | CHEM-C 342 Organic Chemistry 2 Lec | 3 |
| CHEM-C 343 Organic Chemistry 1 Lab | 2 | Second Written Communication Course ENG-W270 or ENG-W230 | 3 |
| Math 15400 Trig w/Analytical Geo | 3 | Gen Ed - Arts & Humanities | 3 |
| Gen Ed - Social Science | 3 |  |  |
| Total | 16 | Total | 14 |
|  |  |  |  |
| **3rd Year Fall Semester** | | **3rd Year Spring Semester** | |
| PHYS 218 General Physics 1 | 4 | PHYS 219 General Physics 2 | 4 |
| CSCI-N 207 | 3 | World Language/ Cultural Understand | 4/3 |
| World Language | 4 | Gen Ed - Arts & Humanities or Social Science | 3 |
| Organismal Biology Lec  BIOL-K356 Microbiology Lec (odd yr.) | 3 | Molecular/Cellular Biology Lec  BIOL-K384 Biochemistry Lec | 3 |
| Organismal Biology Lab (optional)  BIOL-K357 Micro Lab (odd yr.) | (2) | General Elective | 3 |
| Total | 14 (16) | Total | 16 |
|  |  |  |  |
| **4th Year Fall Semester** | | **4th Year Spring Semester** | |
| BIOL-K 341 Principles of Ecology and Evolution | 3 | BIOL-K 493 Independent Study or BIOL-K 490 Capstone | 1 |
| BIOL-K342 Principles of Ecology and Evolution Lab | 2 | General Electives (4 classes at 3 CR) | 12 |
| General Elective | 3 | Total | 13 |
| General Electives (2 classes at 3 CR) | 6 |  |  |
| Total | 14 |  |  |