

# TRANSFER GUIDE FOR IOWA BIOLOGY



## B.S. Biology

Checklist for transfer work (check website for equivalencies at your college):

- CHEM:1110 Principles of Chemistry I
- CHEM:1120 Principles of Chemistry II
- Full sequence of Introductory or General Biology from one institution
- MATH:1850 Calculus I
- Organic Chemistry I (and II with lab if pursuing pre-Med, PA, or Dental)
- PHYS:1511 College Physics I
- PHYS:1512 College Physics II
- Intermediate II of a world language (or 4<sup>th</sup> level world language in HS)
- RHET:1030 (English Composition I, II and Public Speaking)
- Three additional Core/Gen Ed requirements

### Biology 2-year plan after transfer (remaining courses):

#### BS: INTEGRATIVE BIOLOGY

<u>Semester 1</u> 4 BIOL:2512 Fundamental Genetics 3 BIOC:3110 or BIOC:3120 (Biochemistry)* 3 STAT:3510 or STAT:2010 3 CLAS Core/Gen Ed: Diversity and Inclusion 13 s.h.	<u>Semester 2</u> 3 BIOL:2723 Cell Biology 3-5 Track Elective Course* 4 BIOL:3172 Evolution 3 CLAS Core/Gen Ed 13-15 s.h.
<u>Semester 3</u> 3 BIOL:2673 Ecology 3 Biological Systems I 3 Genes & Genomes I 4 Investigative Lab course 13 s.h.	<u>Semester 4</u> 3 Biological Systems II 4 Experiential Elective or other elective 3 CLAS Core/Gen Ed 3 CLAS Core/Gen Ed 13 s.h.**

#### BS: CELL & DEVELOPMENTAL BIOLOGY

<u>Semester 1</u> 4 BIOL:2512 Fundamental Genetics 3 BIOC:3110 or BIOC:3120 (Biochemistry)* 3 STAT:3510 or STAT:2010 3 CLAS Core/Gen Ed: Diversity and Inclusion 13 s.h.	<u>Semester 2</u> 3 BIOL:2723 Cell Biology 3 Track Elective Course* 4 BIOL:3172 Evolution (or BIOL:3363 Plant Dev) 3 CLAS Core/Gen Ed 13 s.h.
<u>Semester 3</u> 3 BIOL:3233 Intro to Developmental Biology (or BIOL:3172 Evolution) 3 Cell & Dev Elective I 4 Investigative Lab course 3 CLAS Core/Gen Ed 13 s.h.	<u>Semester 4</u> 3 Cell & Dev Elective II 3 Cell & Dev Elective III 4 Experiential Elective 3 CLAS Core/Gen Ed 13 s.h.**

**BS: GENETICS & BIOTECHNOLOGY**

<u>Semester 1</u> 4 BIOL:2512 Fundamental Genetics 3 BIOC:3110 or BIOC:3120 (Biochemistry)* 3 STAT:3510 or STAT:2010 <u>3 CLAS Core/Gen Ed: Diversity and Inclusion</u> 13 s.h.	<u>Semester 2</u> 3 BIOL:2723 Cell Biology 3 Track Elective Course* 4 BIOL:3172 Evolution <u>3 CLAS Core/Gen Ed</u> 13 s.h.
<u>Semester 3</u> 4 BIOL:3713 Molecular Genetics 3 Genetics Elective I 4 Experiential Elective <u>3 CLAS Core/Gen Ed</u> 14 s.h.	<u>Semester 4</u> 3 BIOL:3314 Genomics 3 Genetics Elective II 4 BIOL:3716 Genetics & Biotechnology Lab <u>3 CLAS Core/Gen Ed</u> 13 s.h.**

**BS: NEUROBIOLOGY**

<u>Semester 1</u> 4 BIOL:2512 Fundamental Genetics 3 BIOC:3110 or BIOC:3120 (Biochemistry)* 3 STAT:3510 or STAT:2010 <u>3 CLAS Core/Gen Ed: Diversity and Inclusion</u> 13 s.h.	<u>Semester 2</u> 3 BIOL:2723 Cell Biology 3 Track Elective Course* 3 BIOL:2753 Introduction to Neurobiology <u>6 CLAS Core/Gen Ed</u> 15 s.h.
<u>Semester 3</u> 4 BIOL:3253 Neurobiology 5 BIOL:3244 Animal Behavior <u>4 Experiential Elective</u> 13 s.h.	<u>Semester 4</u> 3 Neurobiology Elective I 3 Neurobiology Elective II 4 BIOL:3656 Neurobiology Lab <u>3 CLAS Core/Gen Ed</u> 13 s.h.**

\*If a student takes BIOC:3120 then the track elective must be BIOC:3130. For students who take BIOC:3110, the one semester biochemistry course, then other course options are available for the track elective.

These plans are guidelines to demonstrate the course requirements for Biology majors. Hours may vary due to world language and math placements, AP or dual enrollment coursework, and actual classes transferred to UI.

\*\*120 semester hours are required to earn a bachelor's degree. Due to residency requirements, students may need a few additional elective hours, but that will vary depending on course selections. Review your transcripts with the Biology advisor to create an individualized plan of study.

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## B.A. Biology

### Checklist for transfer work (check website for equivalencies at your college):

- CHEM:1110 Principles of Chemistry I
- CHEM:1120 Principles of Chemistry II
- Full sequence of Introductory or General Biology from one institution
- MATH:1850 Calculus I
- Intermediate II of a world language (or 4 years in high school of one language)
- RHET:1030 (English Composition I, II and Public Speaking)
- Three additional Core requirements
- BA Elective course outside the major: Organic Chemistry, Basic Physics, College Physics, or Intro to Computer Science can work for this requirement. It is recommended that if a student intends to take Organic Chemistry II or College Physics II, they should complete the full sequence at one institution.

### BIOLOGY BA

<u>Semester 1</u> 4 BIOL:2512 Fundamental Genetics 3 BIOC:3110 Biochemistry 3 STAT:3510 or STAT:2010 <u>3 CLAS Core: Diversity and Inclusion</u> 13 s.h.	<u>Semester 2</u> 3 BIOL:2723 Cell Biology 4 BIOL:3172 Evolution 3 Biological Systems I 3 BA Elective outside the major II <u>3 CLAS Core</u> 16 s.h.
<u>Semester 3</u> 3 Biological Systems II 3 Genes & Genomes I 3 Biology Elective Course I 3 BA Elective outside the major III <u>3 CLAS Core</u> 15 s.h.	<u>Semester 4</u> 3 Biology Elective II 3 BA Elective outside the major IV 4 Course with a Lab <u>3 CLAS Core</u> 13 s.h.*

These plans are guidelines to demonstrate the course requirements for Biology majors. Hours may vary due to world language and math placements, AP or dual enrollment coursework, and actual classes transferred to UI.

\*120 semester hours are required to earn a bachelor's degree. Due to residency requirements, students may need a few additional elective hours, but that will vary depending on course selections. Review your transcripts with the Biology advisor to create an individualized plan of study.