# Overview of the Biology Degrees at McMurry University as of Fall 2015

## B.S. in Biology Degree
- BIOL 1306/1106  General Biology I and lab
- BIOL 1307/1107  General Biology II and lab
- BIOL 3460  Genetics
- BIOL 3110  Junior Seminar
- Either
  - BIOL/BIMS 4201 Biology Capstone Experience and BIOL 4101 Biological Communication, OR
  - BIOL 4388 Biology Internship, OR
  - BIOL4397  Honors Thesis

### Biology Core
- BIOL 1306/1106  General Biology I and lab
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### Total Credit Hours for Biology Core: 16

## B.S. in Biomedical Science Degree
- BIOL 1306/BIOI 1106  General Biology I and lab
- BIOL 1307/BIOI 1107  General Biology II and lab
- BIOL 3460  Genetics
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### Total Credit Hours for Biology Core: 16

## B.S. in Life Sciences (and 8-12) Degree
- BIOL 3403 Foundations of Microbiology
- BIOL 4430 Ecology
- Either
  - BIOL 2401 & BIOL 2402 Human A&P I & II, OR
  - BIOL 3440 Comparative Anatomy and BIMS 3430 Human Physiology

### Required Courses for BS Biology
- BIOL 2110 Environmental Seminar
- BIOL 2410 Botany
- BIOL 2420 Invertebrate Zoology
- BIOL 3440 Comparative Anatomy
- BIOL 4430 Ecology
- BIOL 4450 Advanced Botany

### Total Credit Hours for Required Biology Courses: 21

### Elective Courses for BS Biology
- Select 9 hours from upper level BIOL and BIMS courses

### Total Credit Hours for Approved BIOL and BIMS Electives: 9

### Supporting Courses
- CHEM 1410 & CHEM 1420  General Chemistry I & II
- CHEM 3410 & CHEM 3420  Organic Chemistry I & II
- PHYS 1410  College Physics I
- MATH 2421 Calculus I OR MATH 3351 Statistics

### Total Credit Hours in Supporting Courses: 23-24

### Total Credit Hours Required for BS Biology major: 69-70

## B.S. in Biomedical Science Degree
- BIMS 3350  Cell Biology
- BIMS 3410  Microbiology
- BIMS 3430  Human Physiology
- BIMS 4350 & BIMS 4150  Molecular Biology & Molecular Biology lab

### Required Courses for BS Biomedical Science
- BIMS 3350 Cell Biology
- BIMS 3410 Microbiology
- BIMS 3430 Human Physiology
- BIMS 4350 & BIMS 4150 Molecular Biology & Molecular Biology lab

### Total Credit Hours for Required BIMS Courses: 15

### Elective Courses for BS Biomedical Science
- All students must complete at least 9 credit hours from the following:
  - Any upper level BIMS or BIOL course
  - CHEM 3441 Biochemistry I

### Total Credit Hours for Approved BIOL and BIMS Electives: 9

### Supporting Courses
- CHEM 1410 & CHEM 1420  General Chemistry I & II
- CHEM 3410 & CHEM 3420  Organic Chemistry I & II
- PHYS 1410 & PHYS 1420  College Physics I & II
- MATH 2421 Calculus I OR MATH 3351 Statistics

### Total Credit Hours in Supporting Courses: 27-28

### Total Credit Hours Required for BS Biomedical Science degree: 67-68

## B.S. in Life Sciences (and 8-12) Degree
- BIOL 1306/1106  General Biology I and lab
- BIOL 1307/1107  General Biology II and lab
- BIOL 3460  Genetics
- BIOL 3110  Junior Seminar
- Either
  - BIOL/BIMS 4201 Biology Capstone Experience and BIOL 4101 Biological Communication, OR
  - BIOL 4388 Biology Internship, OR
  - BIOL4397  Honors Thesis

### Required Courses for BS Life Sciences
- BIOL 2410 Botany
- BIOL 2420 Invertebrate Zoology
- BIOL 3440 Comparative Anatomy
- BIOL 4430 Ecology
- Either
  - BIOL 2401 & BIOL 2402 Human A&P I & II, OR
  - BIOL 3440 Comparative Anatomy and BIMS 3430 Human Physiology

### Total Credit Hours for Required Life Sciences Courses: 20

### Elective Courses for BS Life Sciences
- All students must complete at least 8 credit hours from any upper level BIOL or BIMS courses.

### Total Credit Hours for Approved BIOL and BIMS Electives: 8

### Supporting Courses
- Either
  - CHEM 1405 & CHEM 1406  GOB Chemistry I & II
  - CHEM 1410 & CHEM 1420  General Chemistry I & II

### Total Credit Hours in Supporting Courses: 11-12

### Total Credit Hours Required for BS Life Sciences major: 55-56

...NOTE: This degree requires completion of a minor.
## Biology Department Degrees – Examples of Four-Year Plans for Students Beginning in 2015-2016

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