

BIOLOGY, B.S. (CALS)

FOUR-YEAR PLAN

Four-year plans for the biology major are designed to support biological science major exploration. The four-year plan is a tool to assist you and your advisor in planning your academic career. Use it along with your DARS report and Course Search & Enroll. Your specific program of study could, and probably will, look different. You should customize your own four-year plan to fit your unique path at UW-Madison. Consult with your advisor about the best path for you.

FOUR-YEAR PLAN

SAMPLE BIOLOGY MAJOR—NO OPTION FOUR-YEAR PLAN

Freshman

| Fall | Credits | Spring | Credits |
|------------------------------------|---------|------------------------------------|---------|
| CHEM 103 or 109 | 4-5 | CHEM 104 | 5 |
| Math Course ¹ | 3-5 | Math or Statistics | 3-4 |
| Communication A or Breadth Courses | 6 | Communication A or Breadth Courses | 5-7 |
| First Year Seminar ² | 1 | | |
| 14-17 | | 13-16 | |

Total Credits 27-33

Sophomore

| Fall | Credits | Spring | Credits |
|------------------------------------|---------|------------------------------------|---------|
| CHEM 343 | 3 | CHEM 344 | 2 |
| Math or Statistics (if needed) | 3-4 | CHEM 345 | 3 |
| Intro Biology Courses ³ | 3-5 | Intro Biology Courses ³ | 3-5 |
| Breadth Course | 3 | Breadth Courses | 4-6 |
| 12-15 | | 12-16 | |

Total Credits 24-31

Junior

| Fall | Credits | Spring | Credits |
|-------------------------|---------|----------------------------------------------------------|---------|
| PHYSICS 103 or 207 | 4-5 | PHYSICS 104 or 208 | 4-5 |
| Foundational or Biocore | 3 | Biocore or Upper-Level Breadth in the Major ⁴ | 3-5 |
| Elective Courses | 5-8 | Elective Courses | 5-8 |
| 12-16 | | 12-18 | |

Total Credits 24-34

Senior

| Fall | Credits | Spring | Credits |
|-----------------------------------------------|---------|-----------------------------------------------|---------|
| Upper-Level Breadth in the Major ⁴ | 3-5 | Upper-Level Breadth in the Major ⁴ | 3-5 |
| Capstone or Research Course | 2-3 | Capstone or Research Course | 2-3 |

| Elective Courses | 7-10 Elective Courses | 7-10 |
|------------------|-----------------------|--------------|
| 12-18 | | 12-18 |

Total Credits 24-36

1

Math determined by placement scores. Biology majors must complete MATH 171/MATH 217 or MATH 221 plus one additional math/stats course.

2

See CALS requirements (<http://guide.wisc.edu/undergraduate/agricultural-life-sciences/#requirements>) for a list of approved First-Year Seminar courses.

3

Students may complete BIOLOGY/BOTANY/ZOOLOGY 151-BIOLOGY/BOTANY/ZOOLOGY 152 & a foundational course or BIOLOGY/ZOOLOGY 101-BIOLOGY/ZOOLOGY 102, BIOLOGY/BOTANY 130 & a foundational course or BIOCORE (three lectures and two labs required).

4

See Requirements tab for Upper-Level Breadth in the Major course lists.

SAMPLE BIOLOGY FOUR-YEAR PLAN— EVOLUTIONARY BIOLOGY OPTION

Freshman

| Fall | Credits | Spring | Credits |
|------------------------------------|---------|------------------------------------|---------|
| CHEM 103 or 109 | 4-5 | CHEM 104 | 5 |
| Math Course ¹ | 3-5 | Math or Statistics | 3-4 |
| Communication A or Breadth Courses | 6 | Communication A or Breadth Courses | 6 |
| First Year Seminar ² | 1 | | |
| 14-17 | | 14-15 | |

Total Credits 28-32

Sophomore

| Fall | Credits | Spring | Credits |
|-----------------------------------|---------|-----------------------------------|---------|
| CHEM 343 | 3 | CHEM 345 | 3 |
| Math or Statistics (if needed) | 3-5 | CHEM 344 | 2 |
| Intro Biology Course ³ | 5 | Intro Biology Course ³ | 5 |
| Breadth Course | 3 | Breadth Courses | 4-6 |
| 14-16 | | 14-16 | |

Total Credits 28-32

Junior

| Fall | Credits | Spring | Credits |
|------------------------------|---------|---------------------------|---------|
| PHYSICS 103 or 207 | 4-5 | PHYSICS 104 or 208 | 4-5 |
| Foundation Course or Biocore | 3-5 | ANTHRO/BOTANY/ZOOLOGY 410 | 3 |
| Electives | 5 | BIOLOGY/GENETICS 522 | 2-3 |
| | | Electives | 5 |
| 12-15 | | 14-16 | |

Total Credits 26-31

Senior

| Fall | Credits | Spring | Credits |
|-----------------------------------------------|----------------|-------------------------------------------------|----------------|
| Upper-Level Breadth in the Major ⁴ | | 5 Upper-Level Breadth in the Major ⁴ | 5 |
| Capstone or Research Course | | 2-3 Capstone or Research | 2-3 |
| Elective Courses | | 5-8 Elective Courses | 5-8 |
| 12-16 | | 12-16 | |

Total Credits 24-32**1**

Math determined by placement scores. Students in the Evolutionary Biology Named Option must complete MATH 171/MATH 217 or MATH 221 plus STAT 301 or STAT 371.

2

See CALS requirements (<http://guide.wisc.edu/undergraduate/agricultural-life-sciences/#requirementstext>) for a list of approved First-Year Seminar courses.

3

Students may complete BIOLOGY/BOTANY/ZOOLOGY 151-BIOLOGY/BOTANY/ZOOLOGY 152 & a foundational course or BIOLOGY/ZOOLOGY 101-BIOLOGY/ZOOLOGY 102, BIOLOGY/BOTANY 130 & a foundational course or BIOCORE (three lectures and two labs required).

4

See Requirements tab for Upper-Level Breadth in the Major course lists.

SAMPLE BIOLOGY FOUR-YEAR PLAN—PLANT BIOLOGY OPTION

Freshman

| Fall | Credits | Spring | Credits |
|---------------------------------|----------------|------------------------------|----------------|
| CHEM 103 or 109 | | 4-5 CHEM 104 | 5 |
| Math ¹ | | 3-5 Math or Statistics | 3-5 |
| Communication A or Breadth | | 6 Communication A or Breadth | 5-6 |
| First Year Seminar ² | | 1 | |
| 14-17 | | 13-16 | |

Total Credits 27-33**Sophomore**

| Fall | Credits | Spring | Credits |
|-----------------------------------|----------------|---------------------------------------|----------------|
| CHEM 343 | | 3 CHEM 345 | 3 |
| Math or Statistics (if needed) | | 3-5 CHEM 344 | 2 |
| Intro Biology Course ³ | | 3-5 Intro Biology Course ³ | 3-5 |
| Breadth Course | | 3 Breadth Course | 4-6 |
| 12-16 | | 12-16 | |

Total Credits 24-32**Junior**

| Fall | Credits | Spring | Credits |
|------------------------------|----------------|--------------------------------------------------------------|----------------|
| PHYSICS 103 or 207 | | 4-5 PHYSICS 104 or 208 | 4-5 |
| Foundation Course or Biocore | | 3-5 Biocore or Upper-Level Breadth in the Major ⁴ | 3-5 |
| Electives | | 5-6 Plant Science Seminar | 1 |

| | |
|--------------|--------------|
| Electives | 5 |
| 12-16 | 13-16 |

Total Credits 25-32**Senior**

| Fall | Credits | Spring | Credits |
|-----------------------------------------------|----------------|-------------------------------------------------|----------------|
| Upper-Level Breadth in the Major ⁴ | | 5 Upper-Level Breadth in the Major ⁴ | 5 |
| Capstone or Research | | 2-3 Capstone or Research | 2-3 |
| Plant Science Seminar (if needed) | | 1 Plant Science Seminar (if needed) | 1 |
| Electives | | 5-8 Electives | 5-8 |
| 13-17 | | 13-17 | |

Total Credits 26-34**1**

Math determined by placement scores. Biology majors must complete MATH 171/MATH 217 or MATH 221 plus one additional math/stats course.

Stats recommended.**2**

See CALS requirements (<http://guide.wisc.edu/undergraduate/agricultural-life-sciences/#requirementstext>) for a list of approved First-Year Seminar courses.

3

Students may complete BIOLOGY/BOTANY/ZOOLOGY 151-BIOLOGY/BOTANY/ZOOLOGY 152 & a foundational course or **(recommended)** BIOLOGY/ZOOLOGY 101-BIOLOGY/ZOOLOGY 102, BIOLOGY/BOTANY 130 & a foundational course or BIOCORE (three lectures and two labs required).

4

See Requirements tab for Upper-Level Breadth in the Major course lists.