

# BIOLOGICAL SCIENCES (BA)

The Department of Biological Sciences provides courses for both biology majors and non-majors. The core program for the BA major consists of seven lecture/laboratory courses which provide a strong foundation in biology. Beyond the core program, students take three additional majors-level biology courses, guided by their interests. There are a number of opportunities for learning outside the classroom, including a program of seminars, internships, and opportunities for research with a member of the faculty. Students are encouraged to use their open electives to complete coursework required for graduate or professional programs or to pursue minors in fields that will complement their training in biology.

Program Requirements	Quarter Hours
Liberal Studies Requirements	80
Major Requirements	56
Open Electives	56
<b>Total hours required</b>	<b>192</b>

## Learning Outcomes

Students will be able to:

- Distinguish among the diversity of fields and approaches within Biology.
- Describe the relationships among Biology and other scientific and social disciplines.
- Describe how the scientific process is used to identify and resolve testable questions.
- Critically analyze and interpret the biological scientific literature.
- Effectively communicate scientific information to diverse audiences in both written and oral form.

## College Core Requirements

### Modern Language Requirements

Students who intend to graduate with the Bachelor of Arts (BA) degree will be required to demonstrate competence in a modern language equivalent to the proficiency attained from one year of college-level language study. Such competence may be demonstrated in one of several ways:

- completing the last course in the fourth-year high school sequence of any language
- completing the last course in the first-year college sequence of any language
- completing a college course beyond the first-year level in any language
- achieving a satisfactory score on any of the Modern Language placement examinations administered at DePaul
- achieving a satisfactory rating in a proficiency examination accepted by DePaul
- achieving a score of 3 or higher on the Advance Placement (AP) test for any language
- achieving a score of 5 or higher in the Language B assessment from a Standard or Higher Level International Baccalaureate (IB) program
- achieving a satisfactory score on the CLEP examination

Please note: Modern Languages courses with an E-designation are taught in English and may not be applied to the Modern Language Requirement.

For further information regarding satisfactory scores and possible credit from the DePaul placement, AP, CLEP, or IB examinations, please contact Student Records.

Students who complete an Inter-College Transfer (ICT) to the College of Science and Health will abide by the College of Science and Health Modern Language Requirement in place on the effective date of the ICT.

BA students who meet College requirements and wish to pursue further work in the language may elect the "Modern Language Option" of the Liberal Studies Program. While Bachelor of Science (BS) students are not required to demonstrate competency in a modern language, the "Modern Language Option" is available to them for language study at any level. Modern Languages courses with an E-designation are taught in English and may not be applied to the Modern Language Option.

## Major Declaration Requirements

All students in the College are required to declare a major field prior to beginning their junior year. After researching College programs, the student should declare a major field by visiting Campus Connection and using the Declarations and Inter-College Transfer tool. The student will then be assigned a faculty advisor or staff advisor in the department or program and should make an appointment to see that advisor at his or her earliest convenience.

To change major fields, or to declare a minor or concentration, the student must use the Declarations and Inter-College Transfer tool described above. However, for the purpose of exploring the possibility of changing a major field, the student should consult an academic advisor in the College or an academic advisor in the Office for Academic Advising Support.

## Liberal Studies Requirements

Honors program requirements can be found in the individual Colleges & Schools section of the University Catalog. Select the appropriate college or school, followed by Undergraduate Academics and scroll down.

Course	Title	Hours
<b>First Year Program</b>		
<b>Chicago Quarter</b>		<b>4</b>
LSP 110 or LSP 111	DISCOVER CHICAGO or EXPLORE CHICAGO	
<b>Focal Point</b>		
LSP 112	FOCAL POINT SEMINAR	4
<b>Writing</b>		
WRD 103	COMPOSITION AND RHETORIC I <sup>1</sup>	4
WRD 104	COMPOSITION AND RHETORIC II <sup>1</sup>	4
<b>Sophomore Year</b>		
<b>Multiculturalism in the US</b>		
LSP 200	SEMINAR ON MULTICULTURALISM IN THE UNITED STATES	4
<b>Junior Year</b>		
<b>Experiential Learning</b>		
Required		4

**Senior Year****Capstone**

BIO 395	BIOLOGY CAPSTONE SEMINAR <sup>1, 2</sup>	4
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<sup>1</sup> Students must earn a C- or better in this course.

<sup>2</sup> Students with a primary major in Biology are required to complete the Capstone offered by the Biology department. Students double majoring or pursuing dual degrees with the primary major or primary degree in Biology are required to complete the Capstone offered by the Biology department. Biology students in the University Honors Program shall take the University Honors Capstone. They are not expected to take both the Honors Capstone and the primary major or primary degree Capstone.

**Learning Domains**

**Arts and Literature (AL)** (<https://catalog.depaul.edu/undergraduate-core/liberal-studies-program/liberal-studies-learning-domains/arts-and-literature/>)

- 3 Courses Required

**Historical Inquiry (HI)** (<https://catalog.depaul.edu/undergraduate-core/liberal-studies-program/liberal-studies-learning-domains/historical-inquiry/>)

- 2 Courses Required

**Math and Computing (MC)** (<https://catalog.depaul.edu/undergraduate-core/liberal-studies-program/liberal-studies-learning-domains/math-and-computing/>)

- 1 Course Required  
[1 CR Course]

**Philosophical Inquiry (PI)** (<https://catalog.depaul.edu/undergraduate-core/liberal-studies-program/liberal-studies-learning-domains/philosophical-inquiry/>)

- 2 Courses Required

**Religious Dimensions (RD)** (<https://catalog.depaul.edu/undergraduate-core/liberal-studies-program/liberal-studies-learning-domains/religious-dimensions/>)

- 2 Courses Required

**Scientific Inquiry (SI)** (<https://catalog.depaul.edu/undergraduate-core/liberal-studies-program/liberal-studies-learning-domains/scientific-inquiry/>)

- Not Required

**Social, Cultural, and Behavioral Inquiry (SCBI)** (<https://catalog.depaul.edu/undergraduate-core/liberal-studies-program/liberal-studies-learning-domains/social-cultural-and-behavioral-inquiry/>)

- 3 Courses Required

**Notes**

Courses offered in the student's primary major cannot be taken to fulfill LSP Domain requirements. If students double major, LSP Domain courses may double count for both LSP credit and the second major. Students who choose to take an experiential learning course offered by the major may count it either as a general elective or the Experiential Learning requirement.

In meeting learning domain requirements, no more than one course that is outside the student's major and is cross-listed with a course within

the student's major, can be applied to count for LSP domain credit. This policy would apply only to those students in pursuit of a BA or BS degree, and not to those who are double majors or earning BFA or BM degrees.

**Major Requirements****Course Requirements****Biology Core Requirements**

Course	Title	Quarter Hours
BIO 191	GENERAL BIOLOGY I FOR SCIENCE MAJORS	4
BIO 192	GENERAL BIOLOGY II FOR SCIENCE MAJORS	4
BIO 193	GENERAL BIOLOGY III FOR SCIENCE MAJORS	4
BIO 206	BIOSTATISTICS	4
BIO 215	ECOLOGY	4
or BIO 235	EVOLUTION	
BIO 250	CELL BIOLOGY	4
BIO 307	ANIMAL PHYSIOLOGY	4
or BIO 308	HUMAN PHYSIOLOGY	
or BIO 309	PLANT PHYSIOLOGY	

**Chemistry**

Course	Title	Quarter Hours
Select one of the following:		4-6
CHE 120 & CHE 131	GENERAL CHEMISTRY IP and GENERAL CHEMISTRY I LABORATORY	
CHE 130 & CHE 131	GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY	
Select one of the following		4-6
CHE 122 & CHE 133	GENERAL CHEMISTRY IIP and GENERAL CHEMISTRY LABORATORY II	
CHE 132 & CHE 133	GENERAL CHEMISTRY II and GENERAL CHEMISTRY LABORATORY II	
CHE 134 & CHE 135	GENERAL CHEMISTRY III and GENERAL CHEMISTRY LABORATORY III	4

**Biology Majors-level Electives**

Course	Title	Quarter Hours
Select three additional majors-level biology courses, two of which must be 300 level <sup>1</sup>		12

<sup>1</sup> Biology courses that fulfill the Scientific Inquiry Domain requirements, other than the General Biology sequence, do not generate credit toward the major.

**Open Electives**

Open elective credit also is required to meet the minimum graduation requirement of 192 hours.