

# BIOLOGICAL SCIENCES, BSGS

## Curriculum

The (p. 1) bachelor's degree requirements (p. 1) are 45 units total and include distribution, writing, and elective courses, and the major requirements.

### Biological Sciences Major Requirements

Course	Title
BIOL_SCI 215-CN	Genetics and Molecular Biology <sup>1</sup>
BIOL_SCI 217-CN	Physiology
BIOL_SCI 219-CN	Cell Biology <sup>2</sup>
BIOL_SCI 220-CN	Genetic and Molecular Processes Laboratory
BIOL_SCI 221-CN	Cellular Processes Laboratory
BIOL_SCI 222-CN	Investigative Lab
BIOL_SCI 308-CN	Biochemistry <sup>3</sup>
BIOL_SCI 342-CN	Evolutionary Processes
CHEM 110-CN	Quantitative Problem Solving in Chemistry
CHEM 131-CN & CHEM 141-CN	General Chemistry 1 and General Chemistry 1 Lab
CHEM 132-CN & CHEM 142-CN	General Chemistry 2 and General Chemistry Lab 2
CHEM 210-A	Organic Chemistry
CHEM 210-B & CHEM 230-B	Organic Chemistry and Organic Chemistry II Laboratory
MATH 220-A	Single-Variable Differential Calculus <sup>4</sup>
MATH 220-B	Single-Variable Integral Calculus <sup>5</sup>
PHYSICS 130-A & PHYSICS 131-A	College Physics I and Physics Laboratory I
PHYSICS 130-B & PHYSICS 131-B	College Physics II and Physics Laboratory II
PHYSICS 130-C & PHYSICS 131-C	College Physics III and Physics Laboratory III
STAT 202-CN	Introduction to Statistics
Plus four courses selected from the following:	
BIOL_SCI 302-CN	Fundamentals of Neurobiology
BIOL_SCI 313-CN	Human Anatomy
BIOL_SCI 315-CN	Advanced Cell Biology
BIOL_SCI 316-CN	Human Structure and Function
BIOL_SCI 318-CN	Advanced Human Physiology
BIOL_SCI 327-CN	Biology of Aging
BIOL_SCI 328-CN	Microbiology
BIOL_SCI 355-CN	Immunobiology
300-level biological anthropology course <sup>6</sup>	

<sup>1</sup> BIOL\_SCI 215-CN Genetics and Molecular Biology is scheduled in an intensive session in September

<sup>2</sup> Formerly BIOL\_SCI 216-CN Cell Biology

<sup>3</sup> Formerly BIOL\_SCI 218-CN Biochemistry

<sup>4</sup> As of Fall 2019; formerly MATH 220-CN

<sup>5</sup> As of Fall 2019; formerly MATH 224-CN

<sup>6</sup> A maximum of one anthropology course can be applied toward this requirement

## Degree Requirements

SPS programs lead to one of three Northwestern University bachelor's degrees: the bachelor of philosophy (BPhil), the bachelor of science in general studies (BSGS), and the bachelor of philosophy in communication (BPhilCom), which is conferred by the School of Communication (<https://www.communication.northwestern.edu/>).

The bachelor of philosophy (BPhil) and the bachelor of science in general studies (BSGS) degrees are conferred by the Judd A. and Marjorie Weinberg College of Arts and Sciences (<https://www.weinberg.northwestern.edu/>). The primary difference between the two degrees is that the BPhil includes a modern language requirement. Some majors offer a choice of the BPhil or the BSGS degree.

### Bachelor of Science in General Studies

To earn the BSGS degree, students must complete 45 units, including a writing requirement, distribution requirements, a major, and electives. Minors are optional.

Courses	Units Earned
English 111 or 205 and 113	2
Humanities	4
Science	4
Social Sciences	4
Major Requirements	10-20
Electives	Up to 21
<b>Total</b>	<b>45</b>

### About the Writing Requirement

The writing requirement ensures that students have the skills necessary to meet the rigorous writing demands of subsequent SPS courses in all majors and disciplines. The expository writing courses provide the tools to meet the demands of advanced academic writing; the courses may not be audited or taken on a pass/no credit basis.

Transfer and performance-based admission students must fulfill the writing requirement through one of two options:

#### Option 1: Complete an English composition course at SPS.

Demonstrate successful completion of English 111 or 205. A grade of C or higher is required.

#### Option 2: Successfully appeal the writing requirement via the Student Affairs Petition Form (<https://sps.northwestern.edu/main/login.php>).

Students who believe they have the writing skills necessary for university-level research and analytical papers may appeal the SPS writing requirement.

A successful appeal does not result in credit for the writing course. Students must complete another course in its place according to the needs and guidelines of their program. Writing will be evaluated for standards of good expository writing, including: a fully developed thesis; sound logic and adequate evidence in support of the thesis; effective organization, coherent structure and an overall unity; correct grammar, punctuation, and spelling.

Appeal materials must be submitted by the quarter deadline (<https://sps.northwestern.edu/part-time-undergraduate/important-dates.php>) before entry.

## **About the Distribution Requirements**

Students complete course work in the humanities, sciences, and social sciences to obtain a broad experience in the liberal arts. Courses that satisfy these distribution requirements include the following areas:

### **Humanities**

Art history, classics, comparative literary studies, English literature, foreign languages (up to two units), history, music history, philosophy, religion, and some courses in African American studies, foreign languages with literature, gender studies, performance studies, radio/television/film, and theatre.

### **Sciences**

Astronomy, biological sciences, chemistry, earth and planetary sciences, engineering, geography, information systems, mathematics, physics and some courses in anthropology, communication sciences and disorders, psychology, radio/television/film and statistics.

### **Social Sciences**

Anthropology, economics, history, linguistics, political science, sociology, and some courses in African American studies, communication sciences and disorders, gender studies, psychology and statistics.