

# INFORMATION SYSTEMS, BSGS

## Curriculum

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

Course	Title
CIS 110-CN	Introduction to Computer Programming
CIS 313-CN	Telecommunications and Computer Networks
CIS 317-CN	Database Systems Design & Implementation
CIS 394-CN	Project Management Concepts
or ORG_BEH 368-DL	Project Management
MATH 202-CN	Finite Mathematics
STAT 202-CN	Introduction to Statistics and Data Science
or STAT 202-DL	Introduction to Statistics and Data Science
ORG_BEH 307-CN	Leadership Principles and Practices
ENGLISH 205-CN	Intermediate Composition
or ENGLISH 205-DL	Intermediate Composition
6 additional courses from:	
CIS 130-CN	Tools and Technologies of the World Wide Web
CIS 212-CN	Introduction to Object-Oriented Programming
CIS 323-CN	Python for Data Science
CIS 324-CN	Applied Data Science
CIS 325-CN	Enterprise Data Science
CIS 326-CN	Data Engineering
CIS 330-CN	Human Computer Interaction
CIS 345-CN	Information Security
CIS 370-CN	System Analysis and Design
CIS 380-CN	Information Architecture
CIS 385-CN	Programming for the Web

## Degree Requirements

The bachelor of science in general studies (BSGS) degree is conferred by the Judd A. and Marjorie Weinberg College of Arts and Sciences (<https://www.weinberg.northwestern.edu/>).

### 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, languages other than English (up to two units), history, humanities (HUM), music history, philosophy, religion, and some courses in black studies, languages with literature, gender studies, performance studies, radio/television/film, and theatre.

#### Sciences

Astronomy, biological sciences, chemistry, computer information systems, earth and planetary sciences, engineering, 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 black studies, communication sciences and disorders, gender studies, psychology, and statistics.