

# INFORMATION SCIENCES + DATA SCIENCE, BS

*For the Degree of Bachelor of Science in Information Sciences + Data Science*

The Bachelor of Science in Information Sciences prepares students for a wide range of careers within the knowledge economy. In today's technology-centered job market, there is a high demand for information professionals. By earning a B.S. in Information Sciences (BS/IS) from the School of Information Sciences (iSchool), you will gain a competitive edge. Our interdisciplinary, STEM-designated degree will prepare students for careers in a variety of fields. As a BS/IS student, you'll learn how to manage data and other types of information to help organizations achieve their goals. You will become an information technology expert who understands the human perspective, social context, and policy implications.

Information Sciences (<https://ischool.illinois.edu/degrees-programs/bs-information-sciences/>), B.S. Degree website

**Departmental Distinction:** The top 10% of the graduating class will graduate with distinction.

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**General education: Students must complete the Campus General Education** (<https://courses.illinois.edu/gened/DEFAULT/DEFAULT/>) requirements.

## Data Science Core

Code	Title	Hours
<b>Total Hours</b>		<b>28-31</b>
<b>Mathematical Foundations</b>		<b>7-8</b>
MATH 220 or MATH 221 or MATH 234	Calculus Calculus I Calculus for Business I	4-5
MATH 227 or MATH 257	Linear Algebra for Data Science Linear Algebra with Computational Applications	3
<b>Data Science Fundamentals</b>		<b>12</b>
STAT/CS/IS 107	Data Science Discovery	4
STAT 207	Data Science Exploration	4
CS 307	Modeling and Learning in Data Science	4
<b>Computational Fundamentals</b>		<b>4</b>
CS 277	Algorithms and Data Structures for Data Science	4
<b>Social Impact in Data Science</b>		<b>6</b>
IS 467	Ethics and Policy for Data Science	3
IS 477	Data Management, Curation & Reproducibility	3

## Information Sciences Core

Code	Title	Hours
<b>Total Hours</b>		<b>61</b>
IS 101	Introduction to Information Sciences	3
IS 202	Social Aspects Info Tech	3
IS 204	Research Design for Information Sciences	3
IS 205	Programming for Information Problems	3
IS 206	Introduction to Database Concepts & Applications	3
IS 308 or IS 309 or IS 310 or IS 311	Race, Gender, and Information Technology Computers and Culture Computing in the Humanities History and Foundations of the Information Society	3
School of Information Sciences Electives or approved courses in other departments		43

Twelve hours of 300/400 level (advanced) courses in Information Sciences (IS) must be taken on this campus.

## Meaningful Research or Discovery Experience

Code	Title	Hours
		<b>6</b>

### Total Hours

One of the most important skills a student will gain in a IS+DS degree will be the ability to present data in meaningful ways. A research or discovery experience is as much a pillar of this degree program as both the data science core coursework (Part 1) and the coursework in Information Sciences.

IS 189	Independent Study	0 to 3
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Examples of possible experiences may include:

A semester study-abroad with at one or more courses focused on discovery while attending the international institution.

A multi-semester capstone experience within the student's area of specialization.

A semester co-op experience outside of the Champaign-Urbana area focused within the student's area of specialization.

A multi-semester undergraduate research experience under the direction of iSchool faculty.

A summer REU program focused within your area of specialization.

## Summary of Total Hours

Code	Title	Hours
	Total General Education Hours	25
	Total Data Science Core Hours	28
	Total Information Science Specialization Hours	61
	Meaningful Research or Discovery Experience	6
	<b>Total Hours</b>	<b>120</b>

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School of Information Sciences website (<https://ischool.illinois.edu/>)

iSchool Faculty (<https://ischool.illinois.edu/people/faculty/>)

Overview of iSchool admission & requirements (<http://catalog.illinois.edu/schools/ischool/academic-units/#undergraduatetext>)

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