

# INFORMATION SCIENCE AND TECHNOLOGY, BACHELOR OF SCIENCE

## Major Requirements

Some courses required for the major may also fulfill University General Education and/or College of Arts & Sciences Requirements.

**A grade of C or better is required in each major course. LIS prefix courses must be completed within a maximum of two attempts per course.**

Code	Title	Credit Hours
<b>Information Science and Technology Core</b>		
LIS 2003	Introduction to Information Studies	3
LIS 4063	Information and Communication Technology	3
LIS 4643	Introduction to Data Analytics	3
LIS 4683	Database Design for Information Organizations	3
LIS 4823	Internship in Information Studies	3
LIS 4663	Information Studies Capstone	3
<b>Data Science &amp; Analytics</b>		
Choose 6 hours <sup>1</sup>		6
<b>Design &amp; Development</b>		
Choose 6 hours <sup>1</sup>		6
<b>Information &amp; People</b>		
LIS 1013	Acquiring Knowledge in the Digital Age	3
LIS 4523	Online Information Retrieval	3
<b>Information Science &amp; Technology in Context</b>		
Choose 6 hours <sup>1</sup>		6
<b>Technical Writing</b>		
Choose 3 hours <sup>1</sup>		3
Total Credit Hours		45

<sup>1</sup>The list of approved courses for this category is available from the School of Library & Information Studies.

## Major Support Requirements

Code	Title	Credit Hours
<i>Economics</i>		
ECON 1113	Principles of Economics-Macro	3
ECON 1123	Principles of Economics-Micro	3
<i>Math Prerequisite (3 hours) <sup>1</sup></i>		
MATH 1643	Functions and Modeling for Business, Life and Social Sciences	3
<i>Calculus</i>		
MATH 1743	Calculus I for Business, Life and Social Sciences	3
<i>Public Speaking</i>		
COMM 2613	Public Speaking	3

<i>Programming Concepts</i>		
C S 1313	Programming for Non-Majors with C	3
<i>Statistics</i>		
Choose one course (3 hours) from the Statistics Major Support course list. (p. 1)		3
<i>Additional Math or Statistics</i>		
Choose one course (3 hours) from the following:		3
ECON 4223	Econometric Analysis	
MATH 2123	Calculus II for Business, Life and Social Sciences	
MATH 4793	Advanced Applied Statistics	
Total Credit Hours		24

<sup>1</sup>Students may test out of the prerequisite course and take only MATH 1743.

## Statistics Major Support Course List

Code	Title	Credit Hours
ANTH 4713	Statistical Concepts in Anthropology	3
BIOL 2913	Intro to Quantitative Biology	3
BIOL 4933	Introduction to Matlab Programming for Life Sciences	3
COMM 2513	Introduction to Statistics	3
ECON 2843	Elements of Statistics	3
MATH 4753	Applied Statistical Methods	3
SOC 3123	Social Statistics	3
PSY 2003	Understanding Statistics	3
PSY 2113	Research Methods I: Statistics	3

## General Education and College Requirements

**Courses graded P/NP will not apply**

Courses for fulfillment of General Education and College of Arts & Sciences requirements must be from the approved General Education course list published in the Class Schedule or at <http://www.ou.edu/gened/courses>.

## University-Wide General Education (minimum 40 hours) and College Requirements

Code	Title	Credit Hours
<b>Core Area I: Symbolic and Oral Communication</b>		
<i>English Composition (6 hours)</i>		
ENGL 1113	Principles of English Composition	3
ENGL 1213	Principles of English Composition or EXPO 1213 Expository Writing	3
<i>Foreign Language (0-13 hours in the same language)</i>		
The college requirement cannot be met by high school coursework.		
	Beginning Course	0-5
	Beginning Course, continued	0-5
	Intermediate Course (2000 level) <sup>1,2</sup>	0-3
<i>Mathematics (3 hours)</i>		

Choose one course from the General Education Mathematics list	3
<b>Core Area II: Natural Science (7 hours, including one laboratory component)</b>	
<i>Biological Science</i>	
Choose an approved General Education Natural Science course with one of the following prefixes: BIOL, HES, MBIO, or PBIO <sup>1</sup>	3-4
<i>Physical Science</i>	
Choose an approved General Education Natural Science course with one of the following prefixes: AGSC, ASTR, CHEM, GEOG, GEOL, GPHY, METR, or PHYS <sup>1</sup>	3-4
<b>Core Area III: Social Science (6 hours)</b>	
P SC 1113 American Federal Government	3
Choose one course from the General Education Social Science list	3
<b>Core Area IV: Humanities (18 hours)</b>	
<i>Understanding Artistic Forms</i>	
Choose one course from the General Education Artistic Forms list	3
<i>Western Civilization and Culture</i>	
HIST 1483 United States, 1492 to 1865 or HIST 1493 United States, 1865 to the Present	3
Choose one course from the General Education Western Civilization & Culture list (excluding HIST 1483/1493)	3
<i>Non-Western Culture</i>	
Choose one course from the General Education Non-Western Culture list	3
<i>Additional Core IV Upper-Division Humanities courses</i>	
Choose one course from Understanding Artistic Forms, Western Civilization & Culture, or Non-Western Culture <sup>1,3</sup>	3
Choose one course from Understanding Artistic Forms, Western Civilization & Culture, or Non-Western Culture <sup>1,3</sup>	3
<b>Core Area V: Senior Capstone Experience (3 hours)</b>	
Choose one General Education Capstone course	3
<b>Total Credit Hours</b>	<b>56</b>

<sup>1</sup>College of Arts and Sciences Requirements: college requirements are not automatically fulfilled by a previous degree.

<sup>2</sup>One course at the intermediate level or demonstrated competency at that level

<sup>3</sup>6 upper-division hours, 2 courses, at the 3000- 4000-level. **Must be outside the major.**

## Free Electives

Electives to bring total applicable hours to the minimum total required for the degree including 48 upper-division hours.

## Information Concerning General Rules, Regulations and Minimum Requirements

**Arts and Sciences Hours:** At least 80 semester hours of liberal arts and sciences courses are required for a BA degree. At least 55 semester hours of liberal arts and sciences courses are required for a BS degree.

**Pass/No Pass Enrollment:** A maximum of 16 semester hours of free elective credit may be attempted under this option.

**Individual Studies (e.g., courses titled "Independent Study"):** A maximum of 12 total semester hours may be counted toward graduation, excluding Honors Reading and Honors Research.

**P.E. Courses:** No physical education activity courses will be counted toward the 120 semester hours of acceptable credit for graduation.

**Senior Institution Hours:** A minimum of 60 semester hours applied toward graduation must be earned at senior (4-year) institutions.

**Residency:**

- At least 15 of the final 30 hours applied toward the degree or at least 50 percent of the hours required by the institution in the major field must be satisfactorily completed at the awarding institution.
- At least 15 semester hours of upper-division major work must be completed in residence at OU.
- OU correspondence courses are **not** considered resident credit.

**Grade Point Averages:** Students must earn a minimum over all 2.00 for each of the following: Combined Retention GPA (all college grades), OU Retention GPA, GPA for all major courses, and GPA for all major courses taken at OU. Some schools and departments of the College have higher minimum grade point averages required for their students.

**Special Degrees:** Students may qualify for an Honors degree (cum Laude, Magna cum Laude, or Summa cum Laude) by completing specific requirements of the Honors College. A degree will be earned with Distinction if the student completes at least 60 semester hours at OU with at least a 3.60 combined retention GPA and OU retention GPA. A degree will be earned with Special Distinction if the student completes at least 60 semester hours at OU with at least a 3.90 combined retention GPA and OU retention GPA.

## Suggested Semester Plan of Study

This plan shows one possible grouping of courses that would allow students to graduate in four years. Please refer to the front of the degree checklist for official requirements. Students must consult with College of Arts and Sciences and/or School of Library and Information Studies academic advisers to verify that courses selected each semester fulfill the recommended plan and satisfy university, College of Arts and Sciences, and Information Science & Technology major requirements.

Course	Title	Credit Hours
<b>Freshman</b>		
<b>First Semester</b>		
ENGL 1113	Principles of English Composition (Core I)	3
MATH 1743	Calculus I for Business, Life and Social Sciences (Core I)	3
P SC 1113	American Federal Government (Core III)	3
	Beginning Foreign Language (Core I)	5
	Free Elective, lower-division	1
	Credit Hours	15
<b>Second Semester</b>		
COMM 2613	Public Speaking	3
C S 1313	Programming for Non-Majors with C	3
ENGL 1213	Principles of English Composition (Core I)	3
	or EXPO 1213 or Expository Writing	
HIST 1483	United States, 1492 to 1865 (Core IV)	3
	or HIST 1493 or United States, 1865 to the Present	
	Beginning Foreign Language continued (Core I)	5
	Credit Hours	17

**Sophomore****First Semester**

LIS 1013	Acquiring Knowledge in the Digital Age	3
LIS 2003	Introduction to Information Studies	3
ECON 1113	Principles of Economics-Macro (Social Sciences Core III)	3
Gen Ed Natural Science with Lab (Core II)		4
Intermediate Foreign Language		3
Credit Hours		16

**Second Semester**

LIS 4643	Introduction to Data Analytics	3
ECON 1123	Principles of Economics-Micro	3
Statistics Major Support		3
Gen Ed Natural Science without lab (Core II)		3
Non-Western Culture (Core IV)		3
Credit Hours		15

**Junior****First Semester**

LIS 4063	Information and Communication Technology	3
LIS 4683	Database Design for Information Organizations	3
Technical Writing Major Course, upper-division		3
Design & Development Major Course, upper-division		3
Free Elective, lower- or upper-division		3
Credit Hours		15

**Second Semester**

Design & Development Major Course, upper-division		3
Data Science & Analytics Major Course, upper-division		3
Additional Math or Statistics Major Support		3
Western Civilization & Culture (Core IV)		3
Understanding Artistic Forms (Core IV)		3
Credit Hours		15

**Senior****First Semester**

LIS 4523	Online Information Retrieval	3
LIS 4663	Information Studies Capstone	3
Data Science & Analytics Major Course, upper-division		3
Info Science & Technology in Context Major Course, upper-division		3
Upper-division Humanities outside the major (Gen Ed)		3
Credit Hours		15

**Second Semester**

LIS 4823	Internship in Information Studies	3
Info Science & Technology in Context Major Course, upper-division		3
Upper-division Humanities outside the major (Gen Ed)		3
Free Elective, upper-division (3000-4000-level)		3
Credit Hours		12

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Total Credit Hours 120