

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION SYSTEMS
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Catalog AY18-19

MAJOR MAP

BACHELOR OF SCIENCES IN INFORMATION AND COMPUTER SCIENCE – DATA MANAGEMENT

Purpose Statement: This degree equips students to apply problem-solving and critical-thinking skills and use popular computer technologies in producing technology solutions. It prepares students for jobs in the field of data management. Also, it prepares students for graduate school in the field of data management.

	Credit Hours
University Graduation Requirements – BS	
LE 100 First-Year Seminar (<i>first-time freshman only; waived for transfer students</i>)	3
EN 306 Professional Writing in the Disciplines, or departmental equivalent	3
University Liberal Education Requirements	
EN 105 First-Year Writing Seminar I	3
EN 106 First-Year Writing Seminar II	3
CS 140 Introduction to Computers, or higher CS course, or departmental equivalent (will be satisfied in core)	*
MA 120 Basic Concepts of Statistics, MA 135 College Algebra, or higher MA course (will be satisfied in core)	*
Communication requirement (CA 103 Oral Communication, CA 105 Introduction to Human Communication, or TH 105 Oral Communication)	3
Citizenship requirement	3
Ethics requirement (will be satisfied in core)	*
Science course that has a lab	4
LE Natural and Physical Science Elective (<i>except computer science</i>)	3
LE Social Science Elective	6
LE Arts & Humanities Elective	6
LE 300 Seminar in Integrative and Interdisciplinary Learning	3
Requirements for the Major	
Core Curriculum	
	21
CS 151 Introduction to Programming	3
CS 208 Discrete Mathematics	3
CS 300 Technology in a Global Society (departmental equivalent LE Ethics course)	3
CS 365 Computer Networking	3
IS 205 Managing Information Systems	3
IS 361 Data Management Concepts	3
MA 120 Basic Concepts of Statistics	3
Data Management:	
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AC 201 Principles of Financial Accounting	3
CS 240 Web Programming I	3
CS 314 User Interface Design	3
IS 315 Computer Systems Analysis & Design I	3
IS 362 Applied Database Management	3

MG 371 Management and Organizational Behavior	3
Select three courses from this list:	
AC 202 Principles of Managerial Accounting	3
CA 104 Interpersonal Communication I	3
CS 322 Web Programming II	3
HR 422 Organizational Development and Change (only offered online)	3
IS 316 Computer Systems Analysis & Design II (only offered online)	3
MG 315 Advanced Business Statistics	3
MK 351 Principles of Marketing	3
MK 385 Consumer Behavior	3
MK 453 Marketing Research & Information Systems (only offered online)	3
Additional Courses	
Additional courses in or outside of the major. At least 3 cr. at 300/400-level if you have selected 9 cr. 300/400-level courses from the select-three above. You need at least 12 cr. 300/400-level courses from those two sets.	32
TOTALS	120

Recommended Schedule

First Year – Fall (15 cr.)	First Year – Spring (15 cr.)
CS151† MA120* LE100 EN105 Pick 1 LE course.	CS208 IS205 EN106 Pick 1 LE course. Pick 1 course from the Communication or Citizenship category.
Second Year – Fall (16 cr.)	Second Year – Spring (15 cr.)
CS240 CS365 CS300 Pick 1 LE course. Pick 1 science course that has a lab (4 cr.)	AC201 MG371 Pick 2 LE courses. Pick 1 course from the Communication or Citizenship category.
Third Year – Fall (15 cr.)	Third Year – Spring (15 cr.)
CS314 IS361 IS315 EN306 Pick 1 additional course.	IS362 Pick 2 major electives. Pick 2 additional courses.
Fourth Year – Fall (15 cr.)	Fourth Year – Spring (14 cr.)
LE300 Pick 1 major elective. Pick 3 additional courses.	Pick 5 additional courses.

† Take CS144 (online), CS145, or CS147 if not ready to take CS151.

* Take Park's math placement test ASAP to know whether you need to take MA125, which is a prerequisite for CS208. Take MA125 here instead if you need it; consequently, push MA120 to spring first year and move one LE course down to the last semester. MA125 may be counted as one of the additional courses.

Prerequisite Tree



B.S. in Information and Computer Science Specialty Area – Data Management

