

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION SYSTEMS

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Catalog AY19-20

MAJOR MAP

BACHELOR OF SCIENCE IN INFORMATION SYSTEMS

Purpose Statement: This degree prepares students for careers in programming, product analysis, and management of computer information systems; the degree allows students the freedom and flexibility to select a minor (such as business, GIS, graphic design, leadership, or statistics) to complement their studies in information systems.

	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	3
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	
CS 151 Introduction to Programming or CS 152 Introduction to Python Programming	3
CS 208 Discrete Mathematics	3
CS 240 Web Programming I	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 310 Business Applications (only offered online)	3
IS 315 Computer Systems Analysis and Design I	3
IS 316 Computer Systems Analysis and Design II (only offered online)	3
IS 361 Data Management Concepts	3
IS 370 Information Security	3
MA 120 Basic Concepts of Statistics	3
Required Minor	

This guide is not a substitute for academic advisement.

Required Minor – Students must select a complementary minor of their choice (students may select any minor, except the Information and Computer Science minor or the Business Administration/Computer Information Management minor). Suggested minors include: Business Administration/Management, Business Administration/Health Care, Geographic Information Systems (GIS), Graphic Design, Leadership, Organizational Communication, Statistics	18-21
Additional Courses	
Additional courses in or outside of the major. You need at least 9 cr. 300/400-level courses from here and the Required Minor set combined.	20-23
TOTALS	120

Recommended Schedule

Plan A: you already have MA125 or equivalent, or have tested out. CS151/152 and CS208 require MA125>=C. Take Park's math placement test ASAP to know which math course you should start with.

First Year – Fall (15 cr.)	First Year – Spring (15 cr.)
CS140 IS205 EN105 LE100 LE elective 1*	CS151 or CS152 CS208 EN106 LE elective 2 LE elective 3
Second Year – Fall (15 cr.)	Second Year – Spring (16 cr.)
CS240 CS365 IS315 LE elective 4 LE elective 5	IS316 MA120 Minor course 1 Minor course 2 LE science with a lab (4 cr.)
Third Year – Fall (15 cr.)	Third Year – Spring (15 cr.)
IS361 IS370 EN306 LE elective 6 LE elective 7	CS300 IS310 Minor course 3 Minor course 4 Additional course 1+
Fourth Year – Fall (15 cr.)	Fourth Year – Spring (14 cr.)
LE300 Minor course 5 Minor course 6 Additional course 2 Additional course 3	Minor course 7 Additional course 4 Additional course 5 Additional course 6 Additional course 7

Plan B: you need to take MA125. CS151/152 and CS208 require MA125>=C.

First Year – Fall (15 cr.)	First Year – Spring (15 cr.)
CS140 MA125 (additional course 1†) EN105 LE100 LE elective 1*	CS151 or CS152 CS208 EN106 LE elective 2 LE elective 3
Second Year – Fall (15 cr.)	Second Year – Spring (16 cr.)
CS240 CS365 IS315 LE elective 4 LE elective 5	IS205 IS316 MA120 Minor course 1 LE science with a lab (4 cr.)
Third Year – Fall (15 cr.)	Third Year – Spring (15 cr.)
IS361 IS370 EN306 LE elective 6 LE elective 7	CS300 IS310 Minor course 2 Minor course 3 Additional course 2
Fourth Year – Fall (15 cr.)	Fourth Year – Spring (14 cr.)
LE300 Minor course 4 Minor course 5 Additional course 3 Additional course 4	Minor course 6 Minor course 7 Additional course 5 Additional course 6 Additional course 7

* LE (Liberal Education) Elective: aside from EN105, EN106, CS300 (LE Ethics), Science course with a lab (4 hrs), you will need 7 more LE courses: 1 LE Communication, 1 LE Natural Science, 1 LE Citizenship, 2 LE Social/ADM Science (Social Science), and 2 LE Humanities. For a list of qualifying courses go to MyPark>Resources tab>CLAS Academic Advising Resources located in "Your Personalized Resources">Handouts>Liberal Education Requirements.doc

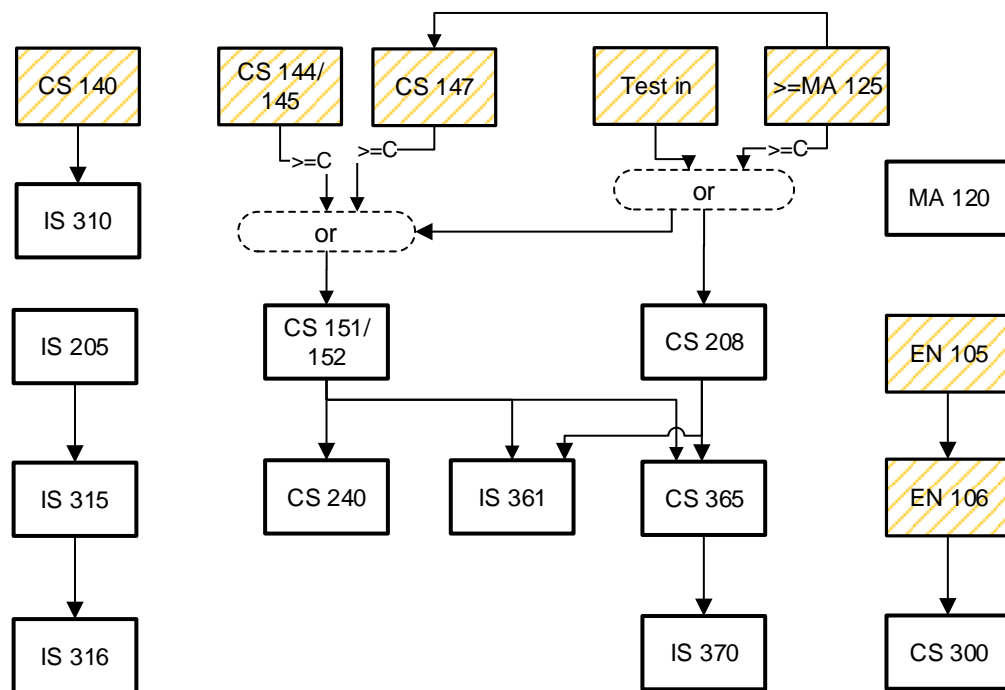
† Additional Course: any additional courses in or outside of the major. You need 20 hrs (about 7 additional courses) to reach 120 hrs if your minor requires 21 hrs (as shown in those two plans); you need 23 hrs (8 additional courses) if your minor requires 18 hrs only.

Prerequisite Tree



B.S. in Information Systems

Core Courses
 Specialty Area Courses
 Other Courses



Select one complementary minor except for Information and Computer Science minor and Business Administration/Computer Information Management minor.