PARK UNIVERSITY
COLLEGE OF LIBERAL ARTS AND SCIENCES

This degree requires a minimum of 120 credit hours to graduate (at least 36 credit hours must be upper-division, 300 or 400-level) and a cumulative GPA of 2.0. A minimum of 30 credit hours must be earned at Park.

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION SYSTEMS
Chair, Bin "Crystal" Peng, Ph.D. (crystal.peng@park.edu) 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.

Example Career Info:

- Occupational Outlook Handbook > Computer Systems Analysts: https://www.bls.gov/ooh/computer-and-information-technology/computer-systems-analysts.htm
- O*NET Online > Computer Systems Analysts: https://www.onetonline.org/link/summary/15-1121.00
- O*NET Online > Geographic Information Systems Technicians: https://www.onetonline.org/link/summary/15-1199.05
- O*NET Online > IT Project Manager: https://www.onetonline.org/link/summary/15-1199.09

	Credit Hours
University Graduation Requirements – BS	
LE 100 First-Year Seminar *(first-time freshman only; waived for transfer students)*	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 *(except computer science)*	3
LE Social Science Elective	6
LE Arts & Humanities Elective	6
LE 300 Seminar in Integrative and Interdisciplinary Learning	3
Requirements for the Major	**36**
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	
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 Computer Information Management minor). Suggested minors include: Management, 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	CS151 or CS152
IS205	CS208
EN105	EN106
LE100	LE elective 2
LE elective 1*	LE elective 3
Second Year – Fall (15 cr.)	**Second Year – Spring (16 cr.)**
CS240	IS316
CS365	MA120
IS315	Minor course 1
LE elective 4	Minor course 2
LE elective 5	LE science with a lab (4 cr.)
Third Year – Fall (15 cr.)	**Third Year – Spring (15 cr.)**
IS361	CS300
IS370	IS310
EN306	Minor course 3
LE elective 6	Minor course 4
LE elective 7	Additional course 1†
Fourth Year – Fall (15 cr.)	**Fourth Year – Spring (14 cr.)**
LE300	Minor course 7
Minor course 5	Additional course 4
Minor course 6	Additional course 5
Additional course 2	Additional course 6
Additional course 3	Additional course 7

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

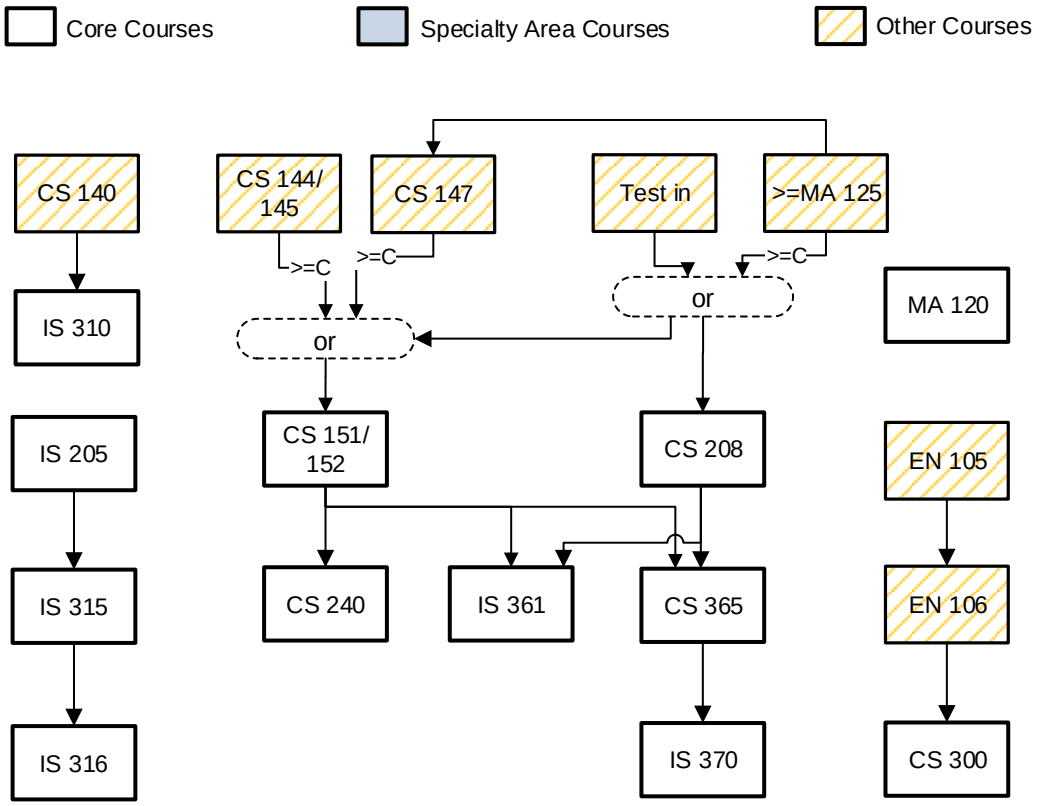
First Year – Fall (15 cr.)	First Year – Spring (15 cr.)
CS140	CS151 or CS152
MA125 (additional course 1†)	IS205
EN105	EN106
LE100	LE elective 2
LE elective 1*	LE elective 3
Second Year – Fall (15 cr.)	**Second Year – Spring (16 cr.)**
CS240	CS365
CS208	IS316
IS315	MA120
LE elective 4	Minor course 1
LE elective 5	LE science with a lab (4 cr.)
Third Year – Fall (15 cr.)	**Third Year – Spring (15 cr.)**
IS361	CS300
IS370	IS310
EN306	Minor course 2
LE elective 6	Minor course 3
LE elective 7	Additional course 2
Fourth Year – Fall (15 cr.)	**Fourth Year – Spring (14 cr.)**
LE300	Minor course 6
Minor course 4	Minor course 7
Minor course 5	Additional course 5
Additional course 3	Additional course 6
Additional course 4	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, see Liberal Education Requirements section in the degree description of this program in the catalog: https://catalog.park.edu/ .

† 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



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