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 AND COMPUTER SCIENCE – INFORMATION TECHNOLOGY

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 a wide range of jobs in the field of information technology. In addition to learning about traditional computer-related areas, students choose two 3-course clusters in areas of interest that partner with the information technology field. For example, criminal justice and geographic information systems (GIS) are two such clusters.

	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 (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 *(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	
Core Curriculum	**21**
CS 152 Introduction to Python 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
Information Technology:	**25 - 27**
CS 319 Computer Architecture	3
CS 335 Introduction to Cybersecurity	3
CS 369 Operating System Administration	3
Choose 2 of these 7 clusters:	
EN 204 Writing for Online Environments	9

EN 306a Scientific and Technical Writing EN 306b Business Communications	
IS 310 Business Applications (only offered online) IS 315 Computer Systems Analysis and Design I IS 316 Computer Systems Analysis and Design II (only offered online)	9
CS 366 Computer Networking Laboratory (1 cr.) CS 371 Internetworking IS 370 Information Security	7
IS 141 Applied Computer Technology for Business MA 171 Finite Mathematics MG 315 Advanced Business Statistics	9
CS 240 Web Programming I CS 314 User Interface Design CS 330 Principles of Mobile Development	9
IS 362 Applied Database Management GGP 350 GIS I GGP 355 GIS II	9
MG 371 Management and Organizational Behavior CJ 233 Intro to Security CJ 333 Security Administration	9
Additional Courses	
Additional courses in or outside of the major. May need 3 cr. at 300/400-level here if you select only 9 cr. 300/400-level courses from the choose-2-cluster above. You need at least 12 cr. 300/400-level courses from those two sets combined.	**32 - 34**
TOTALS	**120**

Recommended Schedule

Plan A: you already have MA125 or equivalent, or have tested out. CS152 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.))
CS152	IS205
CS208	MA120
LE100	EN106
EN105	LE elective 2
LE elective 1*	LE elective 3
Second Year – Fall (15 cr.)	**Second Year – Spring (16 cr.)**
CS365	CS335
CS319	Cluster course 1
LE elective 4	Cluster course 2
LE elective 5	LE elective 7
LE elective 6	LE science with a lab (4 cr.)
Third Year – Fall (15 cr.)	**Third Year – Spring (15 cr.)**
IS361	CS300
EN306	Cluster course 5
Cluster course 3	Cluster course 6
Cluster course 4	Additional course 2
Additional course 1†	Additional course 3
Fourth Year – Fall (15 cr.)	**Fourth Year – Spring (14 cr.)**
CS369	Additional course 7
LE300	Additional course 8
Additional course 4	Additional course 9
Additional course 5	Additional course 10
Additional course 6	Additional course 11

Plan B: you need to take MA125. CS152 and CS208 require MA125>=C.

First Year – Fall (15 cr.)	First Year – Spring (15 cr.))
MA125 (additional course 1†)	CS152
LE100	CS208
EN105	EN106
LE elective 1*	LE elective 3
LE elective 2	LE elective 4
Second Year – Fall (15 cr.)	**Second Year – Spring (16 cr.)**
CS365	CS335
CS319	MA120
IS205	Cluster course 1
LE elective 5	LE elective 7
LE elective 6	LE science with a lab (4 cr.)
Third Year – Fall (15 cr.)	**Third Year – Spring (15 cr.)**
IS361	CS300
EN306	Cluster course 4
Cluster course 2	Cluster course 5
Cluster course 3	Additional course 3
Additional course 2	Additional course 4
Fourth Year – Fall (15 cr.)	**Fourth Year – Spring (14 cr.)**
CS369	Additional course 7
LE300	Additional course 8
Cluster course 6	Additional course 9
Additional course 5	Additional course 10
Additional course 6	Additional course 11

* 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 32-34 hrs (11-12 additional courses) to reach 120 hrs.

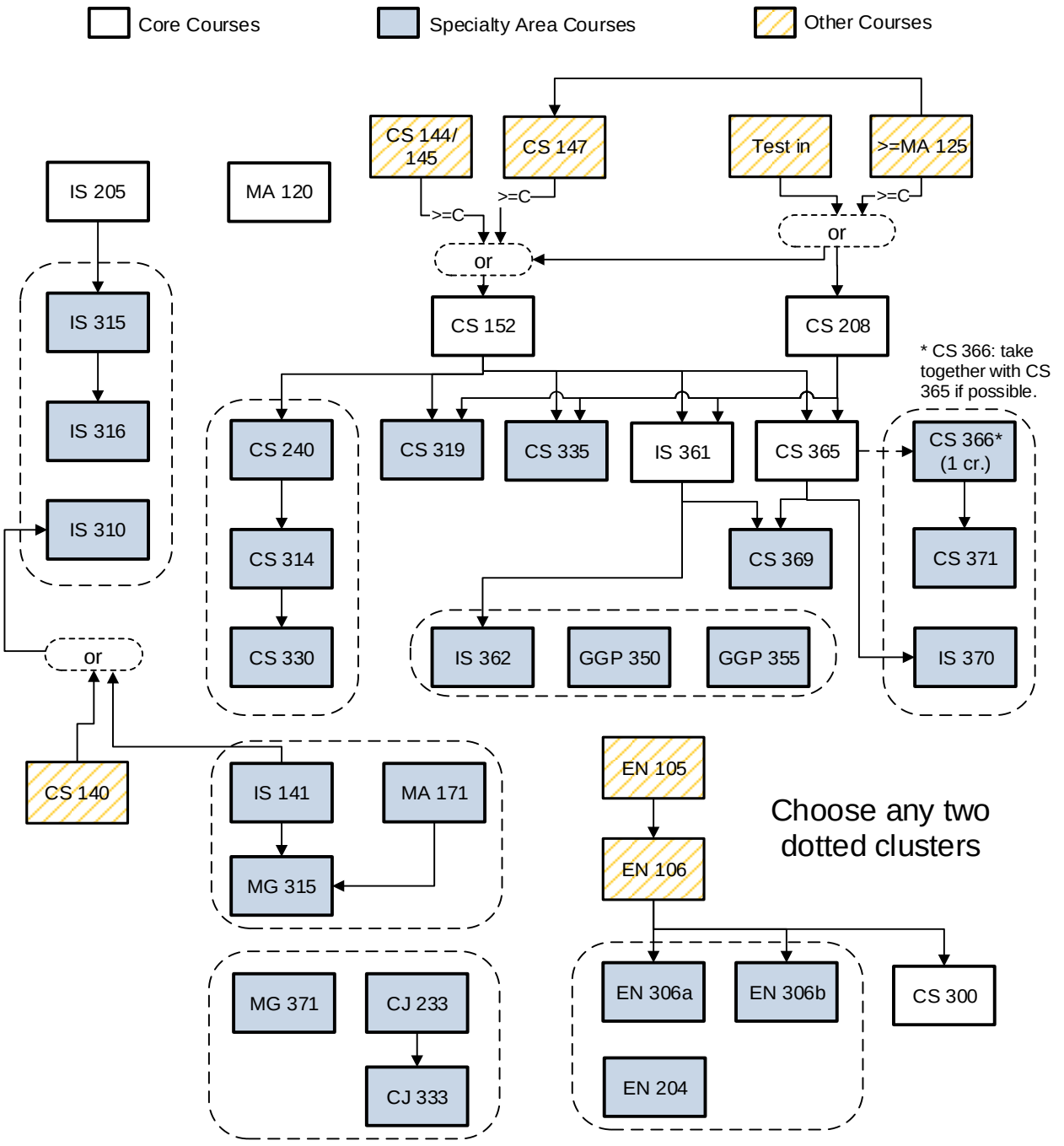
This guide is not a substitute for academic advisement.

Prerequisite Tree

PARK UNIVERSITY

B.S. in Information and Computer Science

Specialty Area – Information Technology



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