Computer Science Degree Plan
Catalog 2019-2020

Last Name : _____ **First Name:** _____ **ID:** _____

Lower Division Requirements (18)		1	2	3	GR	HR
CS 1301 +	Intro. to Computer Science					3
CS 1101	Intro. to Computer Science Lab					1
CS 2401 +	Elem. Data Struct./Algorithms					4
MATH 2300 +	Discrete Math/ CS 1190 & 1290					3
CS 2302 +	Data Structures					3
EE 2369 +	Digital Systems Design I					3
EE 2169 +	Digital Systems Design I Lab					1

Upper Division Requirements (26)		1	2	3	GR	HR
CS 3195	Jr. Professional Orientation					1
CS 3331 +	Adv. Object-Oriented Programng					3
CS 3350	Automata/Computabi/Formal Lang.					3
CS 3360	Design/Implementation Prog. Lan.					3
CS 3432 +	Comp Arch I:Com Org/Design					4
CS 4310 +	Software Eng: Requirements Eng.					3
CS 4311	Software Eng: Design & Implmnt.					3
CS 4342	Database management					3
CS 4375	Theory of Operating Systems					3

Core Curriculum (37)*		1	2	3	GR	HR
RWS 1301+	Rhetoric and Composition 1					3
RWS 1302 +	Rhetoric and Composition 2					3
MATH 1411 +	Calculus I					4
L., Phil. & Cult. +						3
Creative Arts +						3
Soc. & Beh. Sc. +						3
Comp. Area Opt. +						3
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HIST 1301 +	History of U.S. to 1865					3
HIST 1302 +	History of U.S. Since 1865					3
POLS 2310 +	Introduction to Politics					3
POLS 2311 +	American Government & Politics					3

Technical Electives (15)*		1	2	3	GR	HR
						3
						3
						3
						3
						3

Free Electives (4)*		1	2	3	GR	HR
						3
						1

Other Required Mathematics Courses (9)		1	2	3	GR	HR
MATH 1312 +	Calculus II					3
MATH 3323	Matrix Algebra					3
STAT 3320	Probability & Statistics for C.S.					3

Total Lower Division Hours	/	18
Total Upper Division Hours	/	26
Total Core Curriculum Hours	/	37
Total Science and other Mathematics Hours	/	20
Total Technical Elective Hours	/	15
Total Free Elective Hours	/	4

Life and Physical Sciences (8)*		1	2	3	GR	HR
PHYS 2420	Introductory Mechanics					4
						4

Total Hours: _____

Hours Required: 120

Overall GPA: _____

Additional Mathematics or Science Option (3)*		1	2	3	GR	HR
						3

CS GPA: _____

1,2,3= Semester course was taken (1st attempt, 2nd attempt, 3rd attempt)

GR = Grade Received, (precede with "T" if transfer grade) HR = Hours, T = Transfer Credit

(+) Minimum grade of C Required

(*) See details on the back

Advisor: _____ **Date:** _____

CS Chair: _____ **Date:** _____

All freshman-level courses that are required by specific course number must be completed before the student has completed 90 hours toward the degree.

Technical Electives

No more than six credit hours of CS xx90, CS 4181 Undergraduate Seminar, CS 4371 Computer Science Problems, CS 4X73, CS 4392 Rsrch Methods/Computer Science and/or CS 4393 Senior Project (in any combination) can count for technical electives.

Life and Physical Sciences

In addition to PHYS 2420, students must complete one semesters of lecture and associated lab. Acceptable courses are: ASTR 1307 & 1107, PHYS 2421, BIOL 1305 & 1107, BIOL 1306 & 1108, CHEM 1305 & 1105, CHEM 1306 & 1106, GEOL 1313 & 1103, GEOL 1314 & 1104. Science courses that count towards the core curriculum.
 (2 lectures and a lab associated with one of the 2 lectures) require grade C or better.

Additional Mathematics or Science Option

Option A: Mathematics. MATH 2313, 2325, 2326, 3320, 3325, 4329, STAT 3381, 4380, 4385.
Option B: Science. An additional 3 credit lecture course from the list above.

Core Curriculum Electives
1. Language, Philosophy and Culture
ENGL 2311, 2312, 2313, 2314, 2318; FREN 2322; HIST 2301, 2302; PHIL 1301, 2306; RS 1301; SPAN 2340; WS 2300, 2350

2. Creative Arts
ART 1300; ARTH 1305, 1306; DANC 1304; FILM 1390; MUSL 1324, 1327, 2321; THEA 1313

3. Social and Behavioral Sciences
ANTH 1301, 1302, 1310, 2320; CE 2326; COMM 2350, 2372; ECON 2303, 2304; EDPC 1301; EDU 1342; ENGL 2320; GEOG 1310; LING 2320, 2340; PSYC 1301; SOCI 1301, 1310

4. Component Area Option (6 credit hours)
BUSN 1301; COMM 1301, 1302; CS 1310, 1320; SCI 1301; UNIV 1301

Free Elective
Courses that may be counted towards the free elective requirement are college-level courses (not remedial) offered by the college of Liberal Arts, Business, Science, or Engineering.