

(78310) B.A. in Computer Science: 4-year Study Plan

Name:	Faculty Advisor:
Kean Id#	Catalog Year:

Notes:

1st Year Fall (16)	1st Year Spring (14)
MATH 1000 Algebra (3)	MATH 1054 Precalculus or MATH 1044 (3)
COMM 1402 Speech Communication (3)	CPS 1231 Fundamentals of CS (4)
ENG 1030 College Composition (3)	CPS 1032 Microcomputer Applications - Free Elective #1 (3)
GE 1000/3000 Transition to Kean (1)	Lab Science (4)
HIST 1062 Worlds of History (3)	
ID 1400 Comp. in Modern Society (3)	CPS 1996 Research Initiative Freshmen - Free Elective #2 (1)

Internship, summer course, or summer research

2nd Year Fall (16)	2nd Year Spring (17/18)
MATH 2110 Discrete Structures (3)	MATH 2526 Applied Statistics I (3) or MGS 2150 (4)
CPS 2231 Computer Organization & Programming (4)	CPS 2232 Data Structures & Algorithms (4)
TECH 2920 Computer Systems (3)	COMM 3590 Business & Professional Communication (3)
ENG 2403 World Literature (3)	Social Sciences (3)
GE 2024 Research and Technology (3)	Free Elective #3 (3)
	CPS 2010 Career Education - Free Elective #4 (1)

Internship, summer course, or summer research

3rd Year Fall (15)	3rd Year Spring (15)
CPS 3440 Analysis of Algorithms (FA)(3)	CPS Elective #1 (3)
Concentration #1 (3)	Concentration #2 (3)
ENG 3091 Technical Writing (3)	TECH 3910 IT Project Management (3)
Humanities (3)	Free Elective 3000/4000 #6 (3)
Free Elective #5 (3)	Free Elective 3000/4000 #7 (3)

Internship, summer course, or summer research

4th Year Fall (15)	4th Year Spring (12)
CPS Elective #2 (3)	CPS 4951 Capstone (SP)(3) or CPS 4961 Sr. Research (3)
CPS Elective #3 (3)	CPS Elective #4 (3)
Concentration #3 (3)	Concentration #5 (3)
Concentration #4 (3)	Free Elective 3000/4000 #9 (3)
Free Elective 3000/4000 #8 (3)	

Internship, summer course, or summer research

Fall offered CPS Major Electives	Spring offered CPS Major Electives
CPS 2390 Computer Organization & Architecture (FA/SP)(3)	
CPS 3250 Computer Operating Systems (FA/SP) (3)	
CPS 3310 Programming Languages (FA)(3)	CPS 3320 Python Programming (SP)(3)
CPS 3351 Information Systems Programming (FA)(3)	CPS 3498 Computer Security (FA/SP)(3)
CPS 3498 Computer Security (FA/SP)(3)	CPS 3500 Programming WWW (SP)(3)
CPS 3740 Database Management Systems (FA/SP)(3)	CPS 3525 Programming in the UNIX Environment (SP)(3)
CPS 4301 Software Engineering (FA)(3)	CPS 3601 Human Computer Interaction (SP)(3)
CPS 4498 Digital Forensics (FA)(3)	CPS 3740 Database Management Systems (FA/SP)(3)
CPS 4745 Visualization Design & Development (FA)(3)	CPS 4721 Data Mining Principles (SP)(3)
CPS 4802 AI Machine Learning Algorithms (FA)(3)	CPS 4801 Artificial Intelligence Applications (SP)(3)
CPS 4931 Distributed Systems Applications (FA)(3)	

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Note: The course sequence and layout provided is an estimate, based on available information and may change, due to program requirements, student performance, and may be subject to human error. All students should check their study plans and take personal responsibility for accuracy and correctness.