

(78305) B.S. in Computer Science: 4-year Study Plan

This first-year study plan is for new students only. All new students should see their CS/IT faculty advisor in October to review and update their 4-year study plans before the early registration period (in November). **Students should pay attention to each course's prerequisites and the available courses in each semester.** Please check the academic guide sheets at <http://yoda.kean.edu/studyplans/>

Name:	Faculty Advisor:
Kean Id#	Catalog Year:

Notes:

1st Year Fall (15)	1st Year Spring (17)
MATH 1054 Precalculus (3)	MATH 2110 Discrete Structures (3)
CPS 1231 Fundamentals of CS (4)	CPS 2231 Computer Programming (4)
ENG 1030 College Composition (3)	COMM 1402 Speech Comm. (3)
GE 1000/3000 Transition to Kean (1)	HIST 1062 Worlds of History (3)
Lab Science 1 (4)	Lab Science 2 (4)

Internship, summer course, or summer research

2nd Year Fall (17)	2nd Year Spring (16/17)
MATH 2415 Calculus I (4)	MATH 2416 Calculus II (4) or MATH 2995 Linear Algebra (3)
CPS 2232 Data Structures (4)	TECH 2920 Computer Systems (3)
CPS 2390 Computer Org. and Arch. (3)	CPS 3250 Computer Operating Systems (3)
ENG 2403 World Literature (3)	ENG 3091 Technical Writing (3)
GE 2024 Research and Technology (3)	Social Sciences (3)
	CPS 2010 Career Education - Free Elective #1 (1)

Internship, summer course, or summer research

3rd Year Fall (15/16)	3rd Year Spring (15/16)
MATH 2526 Applied Statistics I (3)	CPS 3962 Object Oriented Analysis & Design (3) – SP only
CPS 3440 Analysis of Algorithms (3)- FA only	CPS 4200 Systems Prog. (SP)(3) or Elective (3) #1
CPS 4150 Computer Arch. (FA)(3) or CPS Elective (3) #1	CPS Elective (3) #2
MATH or Science (3/4) #1	MATH or Science (3/4) #2
Humanities (3)	Free Elective (3) #2

Internship, summer course, or summer research

4th Year Fall (15)	4th Year Spring (12+3)
MATH Elective 3xxx (3)	CPS 4951 Senior Project (3) – SP only
CPS Elective (3) #3	CPS 4222 Principles of Networking (3) – SP only
CPS Elective (3) #4	CPS Elective (3) #5
Free Elective (3) #3	Free Elective 3000/4000 (3) #5
Free Elective 3000/4000 (3) #4	CPS Graduate Course (3)

Internship, summer course, or summer research

Fall offered CPS Major Electives	Spring offered CPS Major Electives
CPS 3310 Programming Languages (FA)(3)	CPS 3320 Python Programming (SP)(3)
CPS 3351 Information Systems Programming (FA)(3)	CPS 3498 Computer Security (SP)(3)
CPS 3498 Computer Security (FA)(3)	CPS 3500 Programming WWW (SP)(3)
CPS 3740 Database Management Systems (FA)(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 (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)	
CPS 4601 User Experience Design (TBA)(3)	