

## (78306) B.S. in Computer Science (Information Systems Option): 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 (16)	1st Year Spring (17)
<b>MATH 1000 Algebra (3)</b>	<b>MATH 1054 Pre-calculus (3)</b>
COMM 1402 Speech Comm. (3)	<b>CPS 1231 Fundamentals of CS (4)</b>
ENG 1030 College Composition (3)	ENG 2403 World Literature (3)
GE 1000/3000 Transition to Kean (1)	Lab Science (4)
HIST 1062 Worlds of History (3)	Humanities (3)
ID 1400 Comp. in Modern Society - Free Elective #1 (3)	

Internship, summer course, or summer research

2nd Year Fall (16)	2nd Year Spring (15)
<b>MATH 2110 Discrete Structures (3)</b>	MATH 2415 Calculus I (4)
<b>CPS 2231 Computer Programming (4)</b>	<b>CPS 2232 Data Structures (4)</b>
TECH 2920 Computer Systems (3)	<b>CPS 2390 Computer Org. and Arch. (3)</b>
COMM 3590 Business & Professional Communication (3)	Social Sciences (3)
GE 2024 Research and Technology (3)	<b>CPS 2010 Career Education - Free Elective #2 (1)</b>

Internship, summer course, or summer research

3rd Year Fall (14)	3rd Year Spring (15)
MATH 2526 Applied Statistics I (3)	<b>CPS 3500 Programming WWW (3) – SP only</b>
<b>CPS 3250 Computer Operating Systems (3)</b>	<b>CPS 3740 Database Management Systems (SP/FA)(3)</b>
CPS Elective (3) #1	ENG 3091 Technical Writing (3)
MGS 2030 Principles of Management (3)	Track #1 (3)
Free Elective #3 (2)	Free Elective 3000/4000 #4 (3)

Internship, summer course, or summer research

4th Year Fall (15)	4th Year Spring (12)
<b>CPS 3351 Information Systems Programming (3) – FA only</b>	<b>CPS 4951 Senior Project (3) – SP only</b>
<b>CPS 4301 Software Engineering (3) – FA only</b>	CPS Elective #3 (3)
CPS Elective #2 (3)	CPS Elective #4 (3)
Track #2 (3)	Track #3 (3)
Free Elective 3000/4000 #5 (3)	

Internship, summer course, or summer research

<b>Fall offered CPS Major Electives</b>	<b>Spring offered CPS Major Electives</b>
<b>CPS 3310</b> Programming Languages (FA)(3)	<b>CPS 3320</b> Python Programming (SP)(3)
<b>CPS 3351</b> Information Systems Programming (FA)(3)	<b>CPS 3498</b> Computer Security (SP)(3)
<b>CPS 3498</b> Computer Security (FA)(3)	<b>CPS 3500</b> Programming WWW (SP)(3)
<b>CPS 3740</b> Database Management Systems (FA)(3)	<b>CPS 3525</b> Programming in the UNIX Environment (SP)(3)
<b>CPS 4301</b> Software Engineering (FA)(3)	<b>CPS 3601</b> Human Computer Interaction (SP)(3)
<b>CPS 4498</b> Digital Forensics (FA)(3)	<b>CPS 3740</b> Database Management Systems (SP)(3)
<b>CPS 4745</b> Visualization Design & Development (FA)(3)	<b>CPS 4721</b> Data Mining Principles (SP)(3)
<b>CPS 4802</b> AI Machine Learning Algorithms (FA)(3)	<b>CPS 4801</b> Artificial Intelligence Applications (SP)(3)
<b>CPS 4931</b> Distributed Systems Applications (FA)(3)	
<b>CPS 4601</b> User Experience Design (TBA)(3)	