(AI) B.S. in AI: 4-year Study Plan

1st Year Fall (15)	1st Year Spring (17)
MATH 1054 Precalculus (3)	**MATH 2110** Discrete Structures (3)
CPS 1231 Fundamentals of Computer Science (4)	**CPS 2231** Computer Programming (4)
ENG 1030 College Composition (3)	**COMM 1402** Speech Comm. (3)
GE 1000/3000 Transition to Kean (1)	**ID 1400** Comp. in Modern Society (3) - **Free Elective** #1
Lab Science 1 (4)	**Lab Science 2** (4)

Internship, summer course, or summer research

2nd Year Fall (17)	2nd Year Spring (16)
MATH 2415 Calculus I (4)	**MATH 2995** Matrix & Linear Algebra (3)
CPS 2232 Data Structures (4)	**TECH 2920** Computer Systems (3)
CPS 2800 Fundamentals of AI (3)	**CPS 3830** Machine Learning Foundations (3)
HIST 1062 Worlds of History (3)	**ENG 2403** World Literature (3)
GE 2024 Research and Technology (3)	**Social Sciences** (3)
	CPS 2010 Career Education - **Free Elective** #2 (1)

Internship, summer course, or summer research

3rd Year Fall (15/16)	3rd Year Spring (15/16)
MATH 2526 Applied Statistics I (3)	**CPS 3820** Trustworthy and Responsible AI (3)
CPS 3440 Analysis of Algorithms (FA) (3)	**CPS 4841** Computer Vision or **CPS 4845** Language Processing
CPS 3840 Deep Learning and Applications (3)	**CPS Elective** #1 (3)
MATH or Science #1 (3/4)	**MATH or Science** #2 (3/4)
Humanities (3)	**ENG 3091** Technical Writing (3)

Internship, summer course, or summer research

4th Year Fall (12/13)	4th Year Spring (12)
MATH Elective 3xxx (3/4)	**CPS 4951** Capstone (SP)(3) or **CPS 4961** Sr. Research (3)
CPS 4851 Edge AI or **CPS 4861** Human Centered AI	**CPS Elective** #3 (3)
CPS Elective #2 (3)	**CPS Elective** #4 (3)
Free Elective 3000/4000 #4 (3)	**Free Elective** 3000/4000 #5 (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 3330** Software Development with Frameworks (SP)(3)
CPS 3498 Computer Security (FA)(3)	**CPS 3500** Programming WWW (SP)(3)
CPS 4150 Computer Architecture (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 3962** Object Oriented Analysis & Design (SP)(3)
CPS 4802 AI Machine Learning Algorithms (FA)(3)	**CPS 4200** Systems Programming (SP)(3)
CPS 4931 Distributed Systems Applications (FA)(3)	**CPS 4721** Data Mining Principles (SP)(3)
CPS 4601 User Experience Design (TBA)(3)	**CPS 4801** Artificial Intelligence Applications (SP)(3)