College of Natural Applied & Health Science

Bachelor of Computer Science

120 semester hours   **Effective Fall 201**8

FRESHMAN YEAR					
Fall Semester			**Spring Semester**		
CPS 1231 Fundamentals of Computer Science	4		MATH 2110 Discrete Structures	3	
GE 1000 Transition to Kean	1		CPS 2231 Computer Organization & Programming	4	
ENG 1300 College Composition for Non-Native Students I (counts as 6-credit free electives)	6		ENG 1430 College Composition for Non-Native Students II (counts as ENG 1030 and 3-credit free electives)	6	
ESL 0303 Academic Oral Discourse I	3		ESL 0403 Academic Oral Discourse II	3	
ESL 0305 Academic Written Discourse I	3		ESL 0405 Academic Written Discourse II	3	
	17			**19**	

SOPHOMORE YEAR					
Fall Semester			**Spring Semester**		
CPS 2232 Data Structures	4		HIST 1062 Worlds of History	3	
CPS 2390 Organization & Architecture	3		TECH 2920 Computer Systems	3	
GE 2024 Research & Technology	3		MATH 2526 Applied Statistics	3	
MATH 2995 Matrix & Linear Algebra	3		ENG 2403 World Literature	3	
MATH 2415 Calculus I	4		COMM 1402 Speech Communication	3	
	17			**15**	

JUNIOR YEAR					
Fall Semester			**Spring Semester**		
CPS 3440 Analysis of Algorithms	3		CPS 3962 Object Oriented Analysis & Design	3	
ENG 3091 Technical Writing	3		CPS elective	3	
MATH 2416 Calculus II	3		MATH 3415/3120	4/3	
Lab Science I	4		Lab Science II	4	
CPS 3250 Computer Operating Systems	3		COMM 3590 Bus & Professional Communication (FE)	3	
	16			**17/16**	

SENIOR YEAR					
Fall Semester			**Spring Semester**		
CPS 4150 Computer Archtecture	3		CPS 4222 Principle of Networking	3	
MATH elective	3		CPS 4951 Sr.Project	3	
GE Humanity	3		GE Soc.Sci	3	
CPS elective	3		CPS elective	3	
CPS elective	3		CPS elective	3	
Free elective	3				
	18			15	