

**KEAN UNIVERSITY – SCHOOL OF COMPUTER SCIENCE AND TECHNOLOGY
(78042) Minor in Computer Science**

Total Credits: 21 S.H.

Supporting Courses: 6 S.H.

REQUIRED COURSES (12 Semester Hours)		
CPS 1231 Fundamental of Computer Science	4 S.H.	
CPS 2231 Computer Organization and Programming	4 S.H.	
CPS 2232 Data Structures and Algorithms	4 S.H.	
ELECTIVE COURSES (9 Semester Hours)		
Option 1: 3 CPS Courses at the 3000 level or above		
Option 2: TECH 2920 Computer Systems and 2 CPS Courses at the 3000 level or above		
SUPPORTING COURSES (6 Semester Hours)		
MATH 1054 Pre-Calculus	3 S.H.	Prereq for CPS 2231
MATH 2110 Discrete Structures	3 S.H.	Prereq for CPS 2232

- For any courses to be credited towards the minor in Computer Science, students must take at least additional 9 S.H. as free elective to total 120 S.H.
- No more than one-half of the credits for the minor may be transferred from another institution.
- Grade of "C" (2.0) or better in all courses.
- Students seeking admission to minor programs should use the Major/Minor Status Change Form signed by the Executive Director and then submitted to the Office of the Registrar.
- At the time of filling for graduation, the Department must verify and sign off that all requirements for the minor are met. Verification of the completion of the minor must then be filed with the Registrar's Office.
- Minors will be designated on the student's transcript.

Emphasis Areas in Computer Science

Cybersecurity	Data Science	Software Engineering
CPS 3498 Computer Security	CPS 3320 Python Programming	CPS 3351 Information System Programming
CPS 3500 Programming World Wide Web Server	CPS 3500 Programming World Wide Web Server	CPS 3440 Analysis of Algorithm
CPS 3525 Programming in UNIX	CPS 3525 Programming in the UNIX	CPS 3601 Human Computer Interaction
CPS 3740 Database Management Systems	CPS 3740 Database Management Systems	CPS 3740 Database Management Systems
CPS 4200 Systems Programming	CPS 4721 Data Mining	CPS 3962 Object Oriented Analysis & Design
CPS 4222 Networking	CPS 4745 Visualization Design and Dev.	CPS 4200 Systems Programming
CPS 4498 Digital Forensics	CPS 4801 Artificial Intelligence	CPS 4301 Software Engineering
	CPS 4802 Machine Learning	CPS 4931 Distributed Systems

**School of Computer Science and Technology
North Avenue Academic Building, Room 223. (908) 737-6150
1000 Morris Avenue, Union, NJ 07083**

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Total Credits: 21 S.H.
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Name: _____ Kean ID: _____

Email: _____ Major(s): _____

Courses	S.H.	Completed Term	Grade	Transferred¹
REQUIRED COURSES	12			
CPS 1231 Fundamental of Computer Science	4			
CPS 2231 Computer Organization and Programming	4			
CPS 2232 Data Structures and Algorithms	4			
ELECTIVE COURSES	9			
TECH 2920 Computer Systems or CPS 3xxx or 4xxx	3			
CPS 3xxx or 4xxx	3			
CPS 3xxx or 4xxx	3			

¹ No more than one-half of the credits for the minor may be transferred from another institution.

Advisor's Signature: _____ Date: _____

Director's Signature: _____ Date: _____

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