

The following CMPE/CMSC491 Courses were offered in Fall 2018, and are accepted as the following type of electives for the CMPE Program.

Course	Topic	Instructor	List A	List B	List C
CMSC491-01	The Science of Making Good Decisions	Park		X	
CMSC491-02	Social Media Mining	Ray		X	
CMSC491-03	Cybersecurity Research	Zhang		X	X
CMSC491-04	Internet of Things	Sidhu	X	X	X
CMSC491-05	Introduction to Data Science	Oates		X	X
CMSC491-06	Semantic Web	Finin			
CMSC491-07	Sem. in Active Cyberdefense	Nicholas		X	X
CMPE491-01	Hardware Security	Karimi	*		X

* It's not that this course isn't appropriate for List A, but enrollment is very limited and enrollment priority goes to CyS student. It is anticipated that the CyS demand will fill all of the available undergraduate seats. Contact Dr. Karimi for more details.

The following CMPE/CMSC491 Courses will be offered in Spring 2019, and are accepted as the following type of electives for the CMPE Program. The CMPE491-xx courses are pending corrected section numbers. Search for the topic and instructor.

Course	Topic	Instructor	List A	List B	List C
CMPE491-xx	Communications Theory	LaBerge	X		
CMPE491-xx	Advanced Algorithms	Phatak	X		X
CMPE491-xx	Neural Engineering Instr.	Choa	X		
CMPE491-xx	Signal Processing for Big Data	Kim	X		X
CMPE491-xx	Satellite Communications	Mosavi	X		
CMSC491-01	Advanced Robotics	Matusak		X	
CMSC491-02	Mobile Computing	Banerjee		X	X
CMSC491-03	Malware Analysis	Nicholas		X	X
CMSC491-04	Computer Vision	Pirsiavash		X	
CMSC491-09	Introduction to Data Science	Mittal		X	

List A consists of any CMPE 300-level or 400-level course, except CMPE499, not otherwise required for CMPE program or the relevant track; and the following CMSC courses.

- CMSC426 Principles of Computer Security
- CMSC441 Algorithms
- CMSC442 Information and Coding Theory
- CMSC443 Cryptology
- CMSC478 Machine Learning
- CMSC479 Introduction to Robotics
- CMSC481 Computer Networks
- CMSC482 Computer Systems Security
- CMSC487 Introduction to Network Security

List B consists of the following CMSC courses, plus a single ENME course

- CMSC422 Operating System Design
- CMSC425 Performance Analysis of Computer Systems
- CMSC431 Compiler Design Principles
- CMSC447 Software Engineering I
- CMSC455 Numerical Computations
- CMSC471 Artificial Intelligence
- CMSC483 Parallel and Distributed Processing
- CMSC486 Mobile Radio Communications
- ENME403 Automatic Controls

List C consists of the following specific CMPE and CMSC courses

- CMPE323 Signals and Systems
- CMPE418 VLSI Testing
- CMPE422 Digital Signal Processing
- CMPE447 Analog Integrated Circuit Design
- CMPE471 Experimental Techniques for Electrical and Computer Engineering
- CMPE491 any offering that includes the term “security” in its title.
- CMSC442 Information and Coding Theory
- CMSC443 Cryptology
- CMSC447 Software Engineering I
- CMSC455 Numerical Computations
- CMSC487 Introduction to Network Security
- CMSC491 any offering that includes the term “security” in its title.

The configurations of List A, B, and C stated above were approved by the UGPC in February 2017, and by Undergraduate Council in April, 2017.