

**CMPE List A:**

**Any CMPE300-level or 400-level course except CMPE499, not otherwise required for CMPE program or the relevant track; and,**

**The following CMSC courses are included in List A.**

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

**CMPE List B:**

**Any CMPE300-level or 400-level course except CMPE499, not otherwise taken for CMPE program or the relevant track; and,**

**Any CMSC course included in List A; and,**

**The following additional courses.**

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

## **CMPE List C: Electives for Cybersecurity (CyS) Track**

**CyS students must take CMPE315, CMPE415, CMSC426 and CMSC481. One additional elective must be selected from the following list.**

CMPE323 Signals and Systems (F)  
CMPE418 VLSI Testing  
CMPE422 Digital Signal Processing (S)  
CMPE447 Analog Integrated Circuit Design  
CMPE471 Experimental Techniques for Electrical and Computer Engineering (F)  
CMPE491 any offering that includes the term "security" in its title.  
CMSC442 Information and Coding Theory  
CMSC443 Cryptology  
CMSC447 Software Engineering I  
CMSC482 Computer System Security  
CMSC487 Introduction to Network Security.  
CMSC491 any offering that includes the term "security" in its title

Students who have registered for or completed courses that are no longer identified above as List A or List B, and who have registered prior to November 10, 2016 should contact the Undergraduate Program Director for appropriate accommodation. For graduates in May 2018 or earlier, List C may be expanded as needed with permission of the UPD.