Requirements for a Minor in Computer Engineering

1. A minor in Computer Engineering can be earned through completion of 20 credits selected from among the courses listed below.
2. No more than 8 credits from the student’s major degree program can be used to satisfy minor requirements.
3. Students are expected to obtain the necessary background (prerequisites or equivalents) to complete chosen courses in the minor program.
4. Students must have a declared major on record in order to apply for a minor in Computer Engineering.
5. For the minor to be awarded, the grade point average (GPA) of the courses (20 credits) counted toward the minor must be 2.0 or greater.
6. The student’s application is subject to the approval of the Associate Chair for Undergraduate Studies of the Department of Electrical and Computer Engineering.
7. Students planning to pursue a minor in Computer Engineering should apply as early as possible to facilitate course planning, and in no case later than October 1 of the senior year.

The following courses may be used to satisfy the requirements of the CE minor:

- ENG EC 311 Logic Design
- ENG EC 327 Software Engineering
- ENG EC 330 Applied Algorithms for Engineers
- ENG EC 413 Computer Organization
- ENG EC 440 Introduction to Operating Systems
- ENG EC 441 Introduction to Computer Networking
- ENG EC 444 Smart and Connected Systems
- ENG EC 447 Software Design
- ENG EC 450 Microprocessors*
- ENG EC 504 Advanced Data Structure
- ENG EC 512 Enterprise Client-Server Software
- ENG EC 513 Computer Architecture
- ENG EC 521 Cybersecurity
- ENG EC 526 Parallel Programming
- ENG EC 527 High Performance Programming w/Multicore
- ENG EC 528 Cloud Computing
- ENG EC 535 Introduction to Embedded Systems
- ENG EC 541 Computer Communications Networks
- ENG EC 544 Network Physical World
- ENG EC 551 Advanced Digital Design
- ENG EC 571 Digital VLSI Circuit Design
- CAS CS 320 Concepts of Programming Languages
- CAS CS 350 Fundamentals of Computing Systems
- CAS CS 410 Advanced Software Systems
- CAS CS 411 Software Engineering

*Indicates course no longer offered

Please note: For each of the following sets of courses, only one course can be taken for credit in each set due to the overlap of material:

(1) ENG ME 403, ENG ME 404, ENG BE 402*, ENG EC 402, ENG BE 404  
(2) ENG ME 303, ENG BE 436  
(3) ENG EK 102, ENG EK 103, CAS MA 142, CAS MA 242  
(4) ENG BE 401*, ENG BE 403, ENG EC 401  
(5) ENG ME 366, ENGEC 381*, ENG EK 381, ENG BE 200*  
(6) ENG ME 460, ENG ME 560  
(7) ENG EK 156*, ENG ME 358  
(8) ENG ME 357, ENG ME 359*

06/26/2019