**Computer Engineering Systems Electives**

CSE 401 Introduction to Compiler Construction (4)  
*- Prerequisites: CSE 332, CSE 351*  
CSE 402 Design and Implementation of Domain-Specific Languages (4)  
CSE 403 Software Engineering (4)  
*- Prerequisites: CSE 331, CSE 332  
- Recommended: project experience such as CSE 331*  
CSE 444 Database Systems Internals (4)  
*- Prerequisites: CSE 332, CSE 344  
- Recommended: CSE 331 or CSE 333 or substantial software-project experience*  
CSE 451 Introduction to Operating Systems (4)  
*- Prerequisites: CSE 332, CSE 333, CSE 351*  
CSE 452 Introduction to Distributed Systems (4)  
*- Prerequisites: CSE 332, CSE 333, CSE 451*  
CSE 453 Data Center Systems (4)  
*- Prerequisites: CSE 332 and 333; recommended: CSE 451 or 452*  
CSE 461 Introduction to Computer-Communication Networks (4)  
*- Prerequisites: CSE 332, CSE 333*  
CSE/EE 474 Introduction to Embedded Systems (4) OR CSE 466 Software for Embedded Systems (4) \*  
*- Prerequisites: CSE 333, CSE 352*  
CSE 467 Advanced Digital Design (4)  
*- Prerequisites: CSE 332, CSE 352  
CSE/EE 469 Computer Architecture I (5)  
- Prerequisites: CSE 369, CSE 143  
CSE/EE 470 Computer Architecture II (4) OR CSE 471 Computer Design and Organization (4) \*\*  
- CSE 470 Prerequisites: CSE 351, CSE 469  
CSE 478 Autonomous Robots (4)  
CSE 484 Computer Security (4)  
- Prerequisites: CSE 332, CSE 351  
EE 476 Digital Integrated Circuit Design (5)  
EE 477 VLSI II (5)*