

CSE Required Elective Options:

These courses satisfy required electives and do not count toward the one free CSE 5XX elective option.

- CSE 563 Software Requirements and Specification
- CSE 564 Software Design
- CSE 565 Software Verification, Validation, and Testing
- CSE 566 Software Project, Process, and Quality Management
- CSE 546 Cloud Computing

- CSE 545 Software Security
 - For students pursuing the *cybersecurity specialization*, CSE 545 Software Security may count as **either** a required elective **OR** as a cybersecurity course, **not both**.

Additionally, SER students do not need an override to register for the following courses:

Please note that only one of the approved CSE 5XX elective courses can be used as a free elective on the general SE track. Specializations do not allow for CSE 5XX courses to be used as Free Electives.

- CSE 512 Distributed Database Systems or CSE 511 Data Processing at Scale
 - (credit can only be earned for one class or the other, not both)
- CSE 535 Mobile Computing
 - Students can only take SER 423 **OR** CSE 535
- CSE 539 Applied Cryptography
- CSE 543 Information Assurance and Security
- CSE 548 Advanced Computer Network Security
- CSE 561 Modeling and Simulation Theory and Application
- CSE 568 Biocomputing
- CSE 571 Artificial Intelligence
- CSE 572 Data Mining
- CSE 574 Planning and Learning Methods in AI
- CSE 575 Statistical Machine Learning
- CSE 576 Topics in Natural Language Processing
- CSE 578 Data Visualization
- CSE 579 Knowledge Representation
- CSE 591 Seminar: (Topics will vary)

Note: Having permission to enroll in a course does NOT guarantee that you will be able to obtain a seat in it. These are very popular courses and seats are limited.