COMPUTATIONAL SCIENCE AND ENGR (CSE)

CSE Class Schedule (https://courses.illinois.edu/schedule/DEFAULT/DEFAULT/CSE)

Courses

CSE 401 Numerical Analysis  credit: 3 or 4 Hours. (https://courses.illinois.edu/schedule/terms/CSE/401)
Same as CS 450, ECE 491 and MATH 450. See CS 450.

CSE 402 Parallel Progrmng: Sci & Engrg  credit: 3 or 4 Hours. (https://courses.illinois.edu/schedule/terms/CSE/402)
Same as CS 420 and ECE 492. See CS 420.

CSE 408 Applied Parallel Programming  credit: 4 Hours. (https://courses.illinois.edu/schedule/terms/CSE/408)
Same as CS 483 and ECE 408. See ECE 408.

CSE 412 Numerical Thermo-Fluid Mechs  credit: 2 to 4 Hours. (https://courses.illinois.edu/schedule/terms/CSE/412)
Same as ME 412. See ME 412.

CSE 414 Algorithms  credit: 4 Hours. (https://courses.illinois.edu/schedule/terms/CSE/414)
Same as CS 473 and MATH 473. See CS 473.

CSE 422 Computer System Organization  credit: 3 or 4 Hours. (https://courses.illinois.edu/schedule/terms/CSE/422)
Same as CS 433. See CS 433.

CSE 423 Operating Systems Design  credit: 3 or 4 Hours. (https://courses.illinois.edu/schedule/terms/CSE/423)
Same as CS 423. See CS 423.

CSE 426 Software Engineering I  credit: 3 or 4 Hours. (https://courses.illinois.edu/schedule/terms/CSE/426)
Same as CS 427. See CS 427.

CSE 427 Interactive Computer Graphics  credit: 3 or 4 Hours. (https://courses.illinois.edu/schedule/terms/CSE/427)
Same as CS 418. See CS 418.

CSE 428 Statistical Computing  credit: 3 or 4 Hours. (https://courses.illinois.edu/schedule/terms/CSE/428)
Same as STAT 428. See STAT 428.

CSE 429 Software Engineering II  credit: 3 or 4 Hours. (https://courses.illinois.edu/schedule/terms/CSE/429)
Same as CS 428. See CS 428.

CSE 440 Statistical Data Management  credit: 3 or 4 Hours. (https://courses.illinois.edu/schedule/terms/CSE/440)
Same as STAT 440. See STAT 440.

CSE 441 Introduction to Optimization  credit: 3 or 4 Hours. (https://courses.illinois.edu/schedule/terms/CSE/441)
Same as ECE 490. See ECE 490.

CSE 448 Advanced Data Analysis  credit: 4 Hours. (https://courses.illinois.edu/schedule/terms/CSE/448)
Same as STAT 448. See STAT 448.

CSE 450 Computational Mechanics  credit: 3 or 4 Hours. (https://courses.illinois.edu/schedule/terms/CSE/450)
Same as TAM 470. See TAM 470.

CSE 451 Finite Element Analysis  credit: 3 or 4 Hours. (https://courses.illinois.edu/schedule/terms/CSE/451)
Same as AE 420 and ME 471. See ME 471.

CSE 461 Computational Aerodynamics  credit: 3 or 4 Hours. (https://courses.illinois.edu/schedule/terms/CSE/461)
Same as AE 410. See AE 410.

CSE 485 Atomic Scale Simulations  credit: 3 or 4 Hours. (https://courses.illinois.edu/schedule/terms/CSE/485)
Same as MSE 485 and PHYS 466. See MSE 485.

CSE 505 Computational Bioengineering  credit: 4 Hours. (https://courses.illinois.edu/schedule/terms/CSE/505)
Same as BIOE 505. See BIOE 505.

CSE 510 Numerical Methods for PDEs  credit: 4 Hours. (https://courses.illinois.edu/schedule/terms/CSE/510)
Same as CS 555. See CS 555.

CSE 511 Iterative & Multigrid Methods  credit: 4 Hours. (https://courses.illinois.edu/schedule/terms/CSE/511)
Same as CS 556. See CS 556.

CSE 512 Parallel Numerical Algorithms  credit: 4 Hours. (https://courses.illinois.edu/schedule/terms/CSE/512)
Same as CS 558. See CS 558.

CSE 515 Algorithms  credit: 4 Hours. (https://courses.illinois.edu/schedule/terms/CSE/515)
Same as CS 573. See CS 573.

CSE 517 Adv Finite Element Methods  credit: 4 Hours. (https://courses.illinois.edu/schedule/terms/CSE/517)
Same as TAM 574. See TAM 574.

CSE 521 Computer Architecture  credit: 4 Hours. (https://courses.illinois.edu/schedule/terms/CSE/521)
Same as ECE 511. See ECE 511.

CSE 522 Parallel Computer Architecture  credit: 4 Hours. (https://courses.illinois.edu/schedule/terms/CSE/522)
Same as CS 533. See CS 533.

CSE 525 Computational Statistics  credit: 4 Hours. (https://courses.illinois.edu/schedule/terms/CSE/525)
Same as STAT 525. See STAT 525.

CSE 527 Scientific Visualization  credit: 4 Hours. (https://courses.illinois.edu/schedule/terms/CSE/527)
Same as CS 519. See CS 519.

CSE 529 Interact of Rad w/Matter II  credit: 4 Hours. (https://courses.illinois.edu/schedule/terms/CSE/529)
Same as NP 529. See NP 529.

CSE 530 Computational Electromagnetics  credit: 4 Hours. (https://courses.illinois.edu/schedule/terms/CSE/530)
Same as ECE 540. See ECE 540.

CSE 532 Numerical Circuit Analysis  credit: 4 Hours. (https://courses.illinois.edu/schedule/terms/CSE/532)
Same as ECE 552. See ECE 552.

CSE 542 Statistical Learning  credit: 4 Hours. (https://courses.illinois.edu/schedule/terms/CSE/542)
Same as ASRM 551 and STAT 542. See STAT 542.

Information listed in this catalog is current as of 06/2018
CSE 543  Topics in Image Processing  credit: 4 Hours. ([https://courses.illinois.edu/schedule/terms/CSE/543](https://courses.illinois.edu/schedule/terms/CSE/543))
Same as ECE 547. See ECE 547.

CSE 551  Finite Element Methods  credit: 4 Hours. ([https://courses.illinois.edu/schedule/terms/CSE/551](https://courses.illinois.edu/schedule/terms/CSE/551))
Same as CEE 570. See CEE 570.

CSE 552  Nonlinear Finite Elements  credit: 4 Hours. ([https://courses.illinois.edu/schedule/terms/CSE/552](https://courses.illinois.edu/schedule/terms/CSE/552))
Same as CEE 576. See CEE 576.

CSE 553  Computational Inelasticity  credit: 4 Hours. ([https://courses.illinois.edu/schedule/terms/CSE/553](https://courses.illinois.edu/schedule/terms/CSE/553))
Same as CEE 577. See CEE 577.

CSE 554  Computational Plates & Shells  credit: 4 Hours. ([https://courses.illinois.edu/schedule/terms/CSE/554](https://courses.illinois.edu/schedule/terms/CSE/554))
Same as CEE 571. See CEE 571.

CSE 560  Computational Fluid Mechanics  credit: 4 Hours. ([https://courses.illinois.edu/schedule/terms/CSE/560](https://courses.illinois.edu/schedule/terms/CSE/560))
Same as TAM 570. See TAM 570.

CSE 561  Computational Process Modeling  credit: 4 Hours. ([https://courses.illinois.edu/schedule/terms/CSE/561](https://courses.illinois.edu/schedule/terms/CSE/561))
Same as ME 554. See ME 554.

CSE 566  Numerical Fluid Dynamics  credit: 4 Hours. ([https://courses.illinois.edu/schedule/terms/CSE/566](https://courses.illinois.edu/schedule/terms/CSE/566))
Same as ATMS 502. See ATMS 502.

CSE 576  Computational Chemical Biology  credit: 4 Hours. ([https://courses.illinois.edu/schedule/terms/CSE/576](https://courses.illinois.edu/schedule/terms/CSE/576))
Same as BIOP 576 and CHEM 576. See CHEM 576.