### 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 Programming  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 421** Operating Systems Design  credit: 3 or 4 Hours. (https://courses.illinois.edu/schedule/terms/CSE/421)
Same as CS 433. See CS 433.

**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** Software Engineering I  credit: 3 or 4 Hours. (https://courses.illinois.edu/schedule/terms/CSE/423)
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 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 554. See CS 554.

**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 CS 572. See CS 572.

**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 NPRE 529. See NPRE 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.
CSE 543  Topics in Image Processing  credit: 4 Hours. (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)
Same as CEE 570. See CEE 570.

CSE 552  Nonlinear Finite Elements  credit: 4 Hours. (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)
Same as CEE 577. See CEE 577.

CSE 554  Computational Plates & Shells  credit: 4 Hours. (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)
Same as TAM 570. See TAM 570.

CSE 561  Computational Process Modeling  credit: 4 Hours. (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)
Same as ATMS 502. See ATMS 502.

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