

CS 2022-2023 Classes

Each course taken can be used to satisfy only one degree plan requirement. For example, you can CSE 4380 as your security elective, but it will not also count as a technical elective. If you take CSE 4380 and CSE 4381, CSE 4380 can satisfy your security elective and CSE 4381 can count as a technical elective.

Mathematics Electives

- MATH 2326 Calculus III (Fall, Spring, & Summer) pre-req: MATH 2425
- <u>CSE 4345</u> Computational Methods (Fall & Spring) pre-reqs: CSE 3318, IE 3301 or MATH 3313, and CSE 3380 or MATH 3330

Technical Electives

- <u>CSE 4303</u> Computer Graphics pre-regs: CSE 3318 and CSE 3380 or MATH 3330 (Fall & Spring)
- <u>CSE 4305</u> Compilers pre-reqs: CSE 3302 and CSE 3315 (Fall & Spring)
- CSE 4309 Fundamentals of Machine Learning pre-reqs: CSE 3318, MATH 2326 or the consent of the instructor, IE 3301 or MATH 3313, and CSE 3380 or MATH 3330 (Fall only)
- <u>CSE 4310</u> Fundamentals of Computer Vision pre-regs: CSE 3318, IE 3301 or MATH 3313, CSE 3380 or MATH 3330 (Spring only)
- <u>CSE 4321</u> Software Testing and Maintenance pre-regs: CSE 3310 (Fall, Spring, & Summer)
- <u>CSE 4322</u> Software Project Management pre-regs: CSE 3310 (Fall & Spring)
- <u>CSE 4323</u> Quantitative Computer Architecture pre-reqs: CSE 3320 (Fall & Spring)
- <u>CSE 4331</u> Database Implementation and Theory pre-reqs: CSE 3330 (Fall, Spring, & Summer)
- <u>CSE 4334</u> Datamining pre-regs: IE 3301 or MATH 3313 and co-reg: CSE 3330 (Fall & Spring)
- <u>CSE 4340</u> Fundamentals of Wireless Networks pre-reqs: CSE 4344 or CSE 4352 (Fluctuates)
- <u>CSE 4345</u> Computational Methods pre-reqs: CSE 3318, IE 3301 or MATH 3313, and CSE 3380 or MATH 3330 (Fall & Spring)
- <u>CSE 4351</u> Parallel Processing pre-reqs: CSE 3320 (Fall & Spring)
- <u>CSE 4360</u> Autonomous Robot Design and Programming pre-reqs: CSE 3318, CSE 3320, and CSE 3380 or MATH 3330 (Fall only)
- <u>CSE 4361</u> Software Design Patterns pre-reqs: CSE 3311 (Fall & Spring)
- <u>CSE 4373</u> General Purpose GPU Programming pre-reqs: CSE 3320 (Fall only)
- <u>CSE 4376</u> Digital Communication Systems pre-reqs: CSE 3313 (Fall only)
- <u>CSE 4378</u> Intro to Unmanned Vehicles pre-reqs: Department consent (Fall only)

- <u>CSE 4379</u> Unmanned Vehicles Development pre-regs: B or better in CSE 4378 (Spring only)
- <u>CSE 4380</u> Information Security pre-reqs: CSE 3320 (Fall & Spring)
- <u>CSE 4381</u> Information Security 2 pre-reqs: CSE 3320 and co-req CSE 4344 (Fall & Spring)
- <u>CSE 4382</u> Secure Programming pre-regs: CSE 3320 (Fall & Spring)
- <u>CSE 3311</u> Object-orientated Software Engineering pre-reqs: CSE 1325, CSE 3318, and CSE 3310 (Fall, Spring, & Summer)
- <u>CSE 3313</u> Signal Processing pre-reqs: CSE 3318 and CSE 3380 or MATH 3330 (Fall & Spring)
- <u>ENGR 4302</u> Engineering Entrepreneurship pre-reqs: Admitted to an engineering professional program (Fall only)
- <u>IE 3315</u> Operations Research I pre-reqs: co-req MATH 2326 (Fall & Spring)

Language, Philosophy & Culture Electives

- ANTHROPOLOGY (ANTH) 2322
- ARABIC (ARAB) 2310, 2314
- ARCHITECTURE (ARCH) 2300
- ART & ART HISTORY (ART) 1317
- AMERICAN SIGN LANGUAGE (ASL) 2314
- CHINESE (CHIN) 2310, 2314
- CLASSICS (CLAS) 1300
- INTRO TO LGBTQ+ STUDIES (DIVR) 2315
- ENGLISH (ENGL) 1350, 2303, 2309, 2319, 2329
- FRENCH (FREN) 2310, 2314
- GERMAN (GERM) 2310, 2314
- GLOBAL (GLOBAL) 2301
- GREEK (GREK) 2314
- HISTORY (HIST) 2377
- KOREAN (KORE) 2310, 2314
- LATIN (LATN) 2314
- LINGUISTICS (LING) 2371
- MEXICAN AMERICAN STUDIES (MAS) 2300
- PHILOSOPHY (PHIL) 1304, 2300
- PORTUGUESE (PORT) 2314
- RUSSIAN (RUSS) 2310, 2314
- INTRO TO POPULAR CULTURE (SOCI/INTS) 1310
- SPANISH (SPAN) 2310, 2314, 2315
- WOMEN'S STUDIES (WOMS) 2310, 2315

Creative Arts Electives

- ARCHITECTURE (ARCH) 1301
- ART & ART HISTORY (ART) 1301, 1309, 1310
- DANCE (DNCE) 1300
- ENGLISH (ENGL) 1375
- PHOTOJOURNALISM I (JOUR) 2340
- MUSIC (MUSI) 1300, 1302, 1304, 2300, 2301
- THEATER ARTS (THEA) 1342, 1343

History Electives

- HIST 1301
- HIST 1302
- HIST 1331
- HIST 1332