

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
- CSE 4345 - Computational Methods (Fall \& Spring) pre-reqs: CSE 3318, IE 3301 or MATH 3313, and CSE 3380 or MATH 3330

Technical Electives

- CSE 4303 - Computer Graphics
pre-reqs: CSE 3318 and CSE 3380 or MATH 3330 (Fall \& Spring)
- CSE 4305 - 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)
- CSE 4310 - Fundamentals of Computer Vision pre-reqs: CSE 3318, IE 3301 or MATH 3313, CSE 3380 or MATH 3330 (Spring only)
- CSE 4321 - Software Testing and Maintenance pre-reqs: CSE 3310 (Fall, Spring, \& Summer)
- CSE 4322 - Software Project Management pre-reqs: CSE 3310 (Fall \& Spring)
- CSE 4323 - Quantitative Computer Architecture pre-reqs: CSE 3320 (Fall \& Spring)
- CSE 4331 - Database Implementation and Theory pre-reqs: CSE 3330 (Fall, Spring, \& Summer)
- CSE 4334 - Datamining
pre-reqs: IE 3301 or MATH 3313 and co-req: CSE 3330 (Fall \& Spring)
- CSE 4340 - Fundamentals of Wireless Networks pre-reqs: CSE 4344 or CSE 4352 (Fluctuates)
- CSE 4345 - Computational Methods
pre-reqs: CSE 3318, IE 3301 or MATH 3313, and CSE 3380 or MATH 3330 (Fall \& Spring)
- CSE 4351 - Parallel Processing pre-reqs: CSE 3320 (Fall \& Spring)
- CSE 4360 - Autonomous Robot Design and Programming pre-reqs: CSE 3318, CSE 3320, and CSE 3380 or MATH 3330 (Fall only)
- CSE 4361 - Software Design Patterns pre-reqs: CSE 3311 (Fall \& Spring)
- CSE 4373 - General Purpose GPU Programming pre-reqs: CSE 3320 (Fall only)
- CSE 4376 - Digital Communication Systems pre-reqs: CSE 3313 (Fall only)
- CSE 4378 - Intro to Unmanned Vehicles pre-reqs: Department consent (Fall only)
- CSE 4379 - Unmanned Vehicles Development pre-reqs: B or better in CSE 4378 (Spring only)
- CSE 4380 - Information Security pre-reqs: CSE 3320 (Fall \& Spring)
- CSE 4381 - Information Security 2 pre-reqs: CSE 3320 and co-req CSE 4344 (Fall \& Spring)
- CSE 4382 - Secure Programming pre-reqs: CSE 3320 (Fall \& Spring)
- CSE 3311 - Object-orientated Software Engineering pre-reqs: CSE 1325, CSE 3318, and CSE 3310 (Fall, Spring, \& Summer)
- CSE 3313 - Signal Processing pre-reqs: CSE 3318 and CSE 3380 or MATH 3330 (Fall \& Spring)
- ENGR 4302 - Engineering Entrepreneurship pre-reqs: Admitted to an engineering professional program (Fall only)
- IE 3315 - 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

