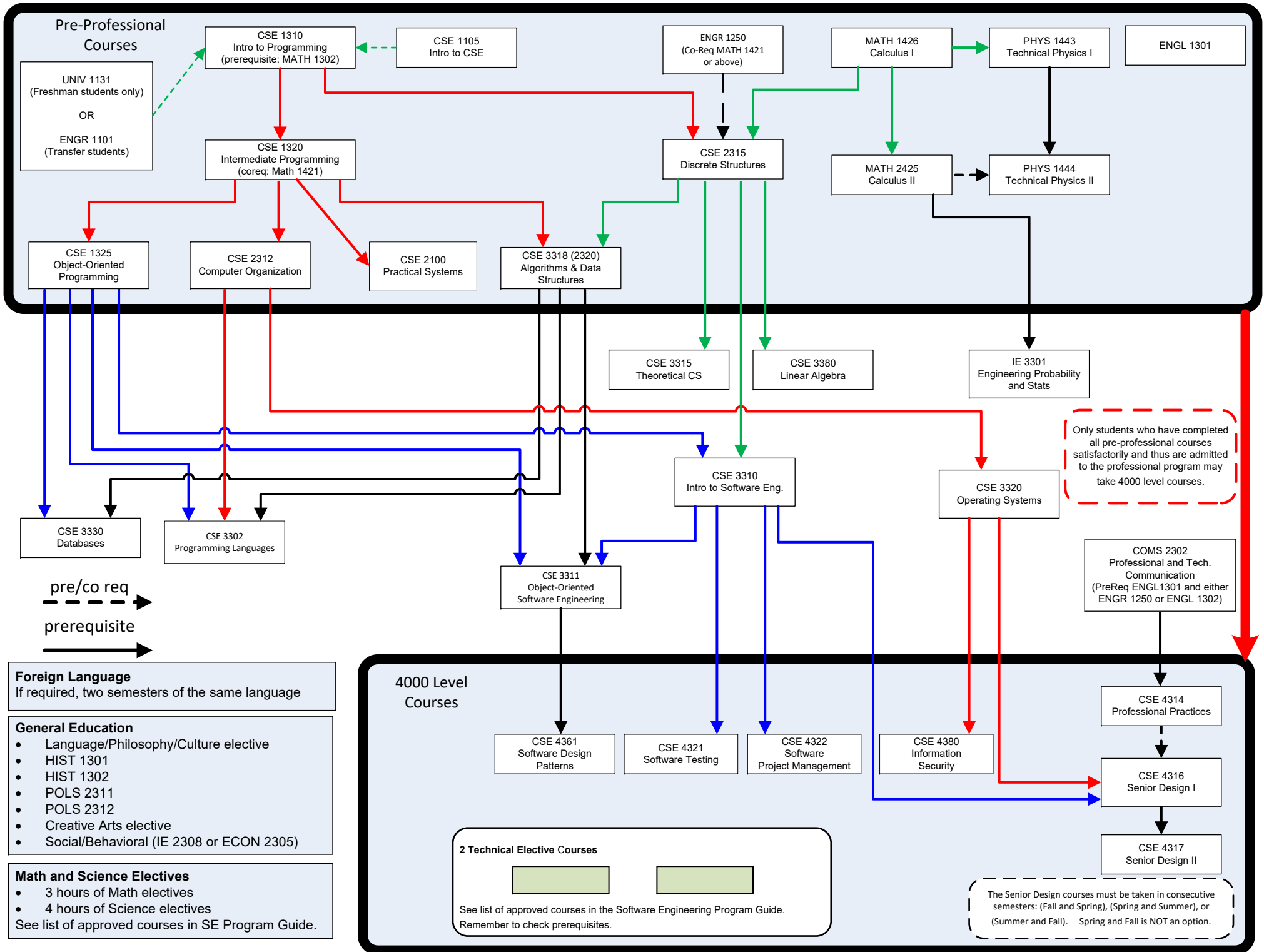


# BS in Software Engineering (BSSE), 2019-2020 Catalog



## SE 2019-2020 Classes

### Mathematics Electives

- MATH 2326 - Calculus III
- CSE 4345 - Computational Methods

### Science Electives

- BIOL 1441 – Cell and Molecular Biology
- CHEM 1441 – General Chemistry
- CHEM 1465 – Chemistry for Engineers

### Technical Electives

- CSE 4303 – Computer Graphics  
prereqs: CSE 3318 and CSE 3380 or MATH 3330
- CSE 4305 – Compilers  
prereqs: CSE 3302 and CSE 3315
- CSE 4308 – Artificial Intelligence  
prereqs: CSE 3318 and IE 3301
- CSE 4309 – Fundamentals of Machine Learning  
prereqs: CSE 3318, IE 3301 or MATH 3313, and CSE 3380 or MATH 3330
- CSE 4310 - Fundamentals of Computer Vision  
prereqs: CSE 3318, IE 3301 or MATH 3313, CSE 3380 or MATH 3330 (Spring only)
- CSE 4323 – Quantitative Computer Architecture  
prereqs: CSE 3320
- CSE 4331 – Database Implementation and Theory  
prereqs: CSE 3330
- CSE 4334 – Datamining  
prereqs: IE 3301 or MATH 3313 and coreq: CSE 3330
- CSE 4340 – Fundamentals of Wireless Networks  
prereqs: CSE 4344 or CSE 4352
- CSE 4344 – Computer Network Organization  
prereqs: CSE 3320
- CSE 4345 – Computational Methods  
prereqs: CSE 3318, IE 3301 or MATH 3313, and CSE 3380 or MATH 3330
- CSE 4351 – Parallel Processing  
prereqs: CSE 3320
- CSE 4360 - Autonomous Robot Design and Programming  
prereqs: CSE 3318, CSE 3320, and CSE 3380 or MATH 3330 (Fall only)

- CSE 4378 – Intro to Unmanned Vehicles  
prereqs: Department consent (Fall only)
- CSE 4381 – Information Security 2  
prereqs: CSE 3320 and coreq CSE 4344
- CSE 4382 – Secure Programming  
prereqs: CSE 3320
- CSE 3313 – Signal Processing  
prereqs: CSE 3318 and CSE 3380 or MATH 3330
- IE 3315 – Operations Research I  
prereqs: coreq MATH 2326

### Language, Philosophy & Culture

- ANTHROPOLOGY (ANTH) 2322
- ARABIC (ARAB) 2310, 2314
- ARCHITECTURE (ARCH) 2300
- ART & ART HISTORY (ART) 1317
- CHINESE (CHIN) 2310, 2314
- CLASSICS (CLAS) 1300
- ENGLISH (ENGL) 2303, 2309, 2319, 2329
- FRENCH (FREN) 2310, 2314
- GERMAN (GERM) 2310, 2314
- GLOBAL (GLOBAL) 2301
- GREEK (GREK) 2314
- HISTORY (HIST) 2377
- INTERDISCIPLINARY STUDIES (INTS) 1310
- 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
- SOCIOLOGY (SOCI) 1310
- SPANISH (SPAN) 2310, 2314

### Creative Arts Electives

- ARCHITECTURE (ARCH) 1301
- ART & ART HISTORY (ART) 1301, 1309, 1310
- DANCE (DNCE) 1300
- MUSIC (MUSI) 1300, 1302, 2300, 2301
- THEATER ARTS (THEA) 1342, 1343