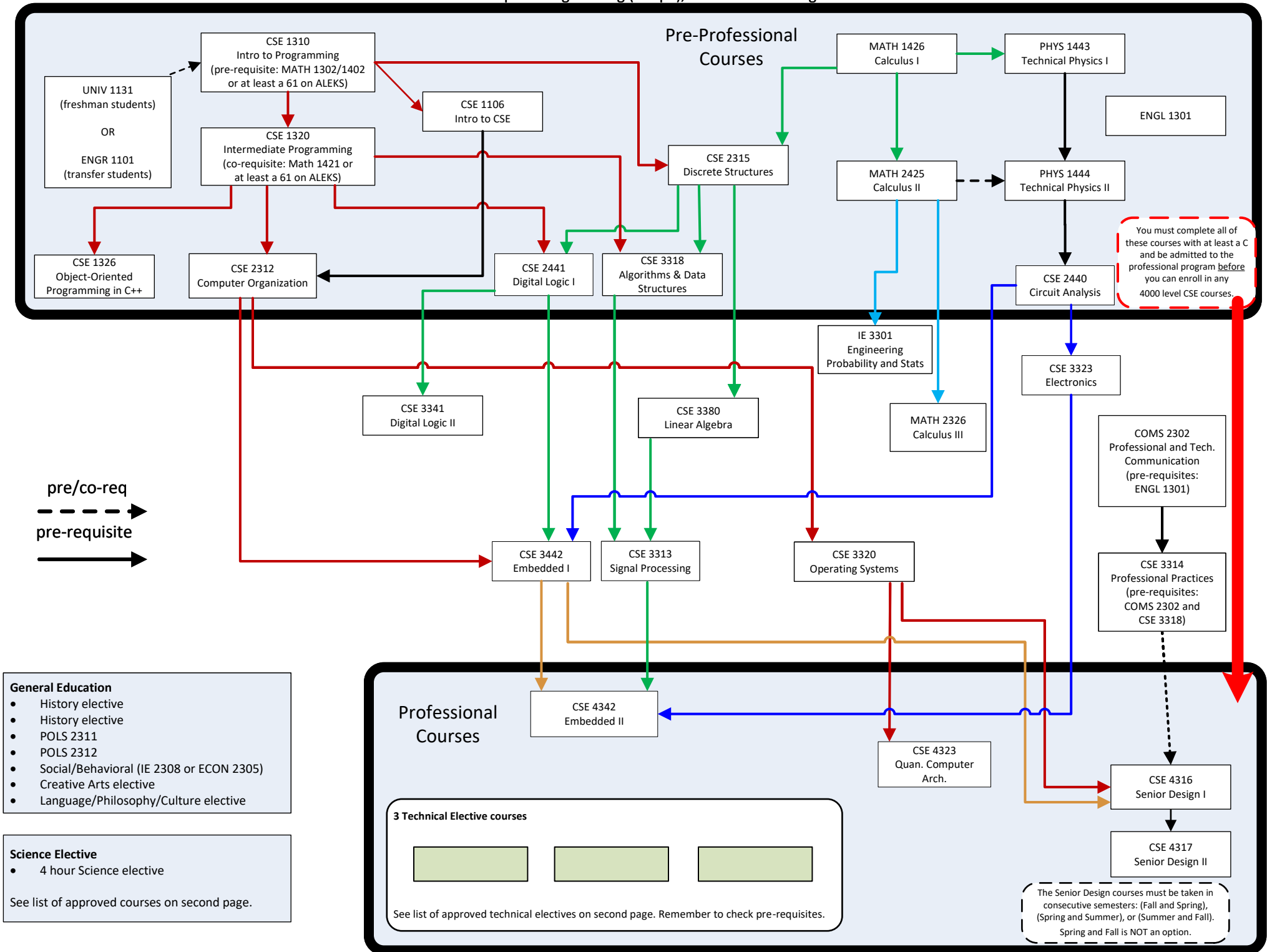


BS in Computer Engineering (BSCpE), 2025-2026 Catalog



CPE 2025-2026 Classes

We will accept either CSE 3380 or MATH 3330 as the linear algebra class that you need for your degree plan. The pre-req for MATH 3330 is MATH 2425, and it's taught in summer, fall, and spring.

We will accept either IE 3301 or MATH 3313 as the statistics class that you need for your degree plan. The pre-req for MATH 3313 is MATH 2326 and it is only taught in the fall.

Science Electives

- BIOL 1441 – Biology I for Science Majors (Fall, Spring, & Summer) pre-req: None
- CHEM 1441 – General Chemistry (Fall, Spring, & Summer) pre-req: MATH 1302 or MATH 1402
- CHEM 1465 – Chemistry for Engineers (Fall, Spring, & Summer) co-req: MATH 1421
- PHYS 3313 & PHYS 3183 – Intro to Modern Physics (Fall & Spring) pre-req: MATH 2425 and PHYS 1444

Technical Electives

- CSE 4352 – IoT and Networking
pre-reqs: CSE 3442 (Spring only)
- CSE 4354 – Real-time Operating Systems
pre-reqs: CSE 3320 and CSE 3442 (Fall only)
- CSE 4355 – Electromechanical Systems and Sensors
pre-reqs: CSE 3323 and CSE 3442 (Fall only)
- CSE 4356 – System on Chip (SoC) Design
pre-reqs: CSE 3442 (Fall only)
- CSE 4358 – Microprocessor Systems
pre-reqs: CSE 3442 (Summer only)
- CSE 4372 – RISC Processor Design
pre-reqs: CSE 3442 (Spring only)
- CSE 4373 – General Purpose GPU Programming
pre-reqs: CSE 3320 (Fall only)
- CSE 4376 – Digital Communication Systems
pre-reqs: CSE 3313 (Fall only)
- CSE 4377 – Wireless Communication Systems
pre-reqs: CSE 3313 and CSE 3442 (Spring only)

Language, Philosophy & Culture Elective

- See the [catalog](#) for these options
- Complete one class from the list

Creative Arts Elective

- See the [catalog](#) for these options
- Complete one class from the list

History Electives

- See the [catalog](#) for these options
- Complete two classes from the list

2025-2026 Bachelor of Science in Computer Engineering University of Texas at Arlington – Four Year Course Sequence

First Year

Fall Semester – 17 Total Hours

Course	Hours
CSE 1310 – Intro to Programming	3
ENGR 1101 – Intro to Engineering	1
OR UNIV 1131 – Student Success	
MATH 1426 – Calculus 1	4
Language, Philosophy, Culture Elective	3
ENGL 1301 – Rhetoric & Composition	3
U.S. History Elective 1	3

Spring Semester – 15 Total Hours

Course	Hours
CSE 1106 – Intro to CSE	1
CSE 1320 – Intermediate Programming	3
MATH 2425 – Calculus 2	4
PHYS 1443 – General Technical Physics 1	4
CSE 2315 – Discrete Structures	3

Second Year

Fall Semester – 16 Total Hours

Course	Hours
CSE 1326 – Object-Oriented Programming in C++	3
CSE 2312 – Computer Organization	3
CSE 3318 – Algorithms and Data Structures	3
PHYS 1444 – General Technical Physics 2	4
U.S. History Elective 2	3

Spring Semester – 17 Total Hours

Course	Hours
CSE 3380 – Linear Algebra for CSE	3
CSE 2440 – Circuit Analysis	4
CSE 2441 – Digital Logic	4
MATH 2326 – Calculus III	3
COMS 2302 – Prof. & Technical Comm	3

Third Year

Fall Semester – 16 Total Hours

Course	Hours
IE 3301 – Probability and Statistics	3
CSE 3320 – Operating Systems	3
CSE 3323 – Electronics	3
CSE 3442 – Embedded Systems	4
POLS 2311 – Govt of the United States	3

Spring Semester – 15 Total Hours

Course	Hours
CSE 3313 – Signal Processing	3
CSE 3341 – Digital Logic 2	3
CSE 4323 – Quantitative Computer Arch	3
POLS 2312 – State & Local Government	3
ECON 2305 – Principles of Macroeconomics	3
OR IE 2308 – Economics for Engineers	

Fourth Year

Fall Semester – 15 Total Hours

Course	Hours
CSE 3314 – Professional Practices	3
CSE 4316 – Senior Design I	3
CSE 4342 – Embedded Systems	3
Technical Elective 1	3
Creative Arts Elective	3

Spring Semester – 13 Total Hours

Course	Hours
CSE 4317 – Senior Design 2	3
Technical Elective 2	3
Technical Elective 3	3
Science Elective	4

Notes:

Visit the [UTA Transfer Guide](#) to view Texas Common Core Number course number equivalents.

Visit the [UTA Catalog](#) to view general core curriculum requirements for elective courses.