

Computer Science, BS - General CS Pathway

4-Year Pathway 2025/26 - 2029/30

*The purple courses are offered once a year only!

Fall Freshman Courses Course Prefix and Number	Course Title Abbreviate Course Title	Units	Requirements Met GE/UR/Major
FYS145	Digital Media and Culture	3	FYS & GE 3B
MATH 130	Precalculus	5	GE 2
Any approved course	English Composition Course	3	GE 1A
CST286 (Fall only)	Media Tools I	4	GE 5A & 5C
Spring Freshman Courses Course Prefix and Number	Course Title Abbreviate Course Title	Units	Requirement Met GE/UR/Major
CST231	Problem-Solving/Programming	4	Major
MATH 170	Discrete Mathematics	4	Major
Any approved course	Critical Thinking Course	3	GE 1B
Any approved course	Arts Course	3	GE 3A
Any approved course	Biological Science Course	3	GE 5B
Fall Sophomore Courses Course Prefix and Number	Course Title Abbreviate Course Title	Units	Requirement Met GE/UR/Major
CST238	Intro to Data Structures	4	Major
MATH 150	Calculus I	4	Major
Any approved course	Oral Communication Course	3	GE 1C
Any approved course	Civics/Service Learning Course	3	GE 4B & LDSL
Spring Sophomore Courses Course Prefix and Number	Course Title Abbreviate Course Title	Units	Requirement Met GE/UR/Major
MATH270	Mathematics of Computing	4	Major
CST237	Intro to Computer Architecture	4	Major
CST274	History of Communication Technology	3	GE 4A & US 1
CST338	Software Design	4	Major
Fall Junior Courses	Course Title	Units	Requirement Met

Course Prefix and Number	Abbreviate Course Title		GE/UR/Major
CST300	Graduate Writing Assessment for Computing and Design	3	GWAR
Any of CST205 311 315 325 336 363 383		4	Major Elec 1
CST349	Computer Science Proseminar	2	Major
CST370	Design and Analysis of Algorithms	4	Major
Any approved course	Any Ethnic Studies Course	3	GE 6
Spring Junior Courses Course Prefix and Number	Course Title Abbreviate Course Title	Units	Requirement Met GE/UR/Major
CST329	Reasoning with Logic	3	GE UD 2
CST334	Operating Systems	4	Major
Any of CST205 311 315 325 326(Spring) 336 363 380 (Spring) 383		4	Major Elec 2
Any of CST205 311 315 325 326 (Spring) 336 363 380 (Spring) 383		4	Major Elec 3
Fall Senior Courses Course Prefix and Number	Course Title Abbreviate Course Title	Units	Requirement Met GE/UR/Major
Any of CST205 311 315 325 336 363 383 415(Fall) 438 463 (Fall)		4	Major Elec 4
Any of CST205 311 315 325 336 363 383 415(Fall) 438 463(Fall)		4	Major Elec 5
Any of CST205 311 315 325 336 363 383 415(Fall) 438 463(Fall)		4	Major Elec 6
CST462s	Race, Gender, Class in the Digital World	3	GE UD 4 & UDSL
Spring Senior Courses Course Prefix and Number	Course Title Abbreviate Course Title	Units	Requirement Met GE/UR/MajorCST
CST499	Computer Science Capstone	4	Major
Any approved course	JPN 350 or SPAN 350	3	UD 3 & WLC
Any approved course		3	Elective
Any approved course		3	Elective

Major Elective Course List for this pathway include:

- [CST 205 - Multimedia Design and Programming](#) **Units: 4**
- [CST 311 - Introduction to Computer Networks](#) **Units: 4**
- [CST 315 - Introduction to Cybersecurity](#) **Units: 4**
- [CST 325 - Graphics Programming](#) **Units: 4**
- [CST 326 - Game Development](#) **Units: 4**
- [CST 336 - Internet Programming](#) **Units: 4**
- [CST 363 - Introduction to Database Systems](#) **Units: 4**
- [CST 380 - Mobile and Ubiquitous Computing](#) **Units: 4**
- [CST 383 - Introduction to Data Science](#) **Units: 4**
- [CST 415 - Advanced Cybersecurity](#) **Units: 4**
- [CST 438 - Software Engineering](#) **Units: 4**
- [CST 463 - Advanced Machine Learning](#) **Units: 4**