

# Computer Science, BS - Software Engineering Concentration

## 4-Year Pathway 2025/26 - 2029/30

\*The purple courses are offered once a year only!

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

Course Prefix and Number	Abbreviate Course Title		GE/UR/Major
<b>CST300</b>	Graduate Writing Assessment for Computing and Design	<b>3</b>	<b>GWAR</b>
<b>CST363</b>	Intro to Database Systems	<b>4</b>	<b>Conc 1</b>
<b>CST349</b>	Computer Science Proseminar	<b>2</b>	<b>Major</b>
<b>CST370</b>	Design and Analysis of Algorithms	<b>4</b>	<b>Major</b>
<b>Any approved course</b>	Any Ethnic Studies Course	<b>3</b>	<b>GE 6</b>
Spring Junior Courses Course Prefix and Number	Course Title Abbreviate Course Title	Units	Requirement Met GE/UR/Major
<b>CST329</b>	Reasoning with Logic	<b>3</b>	<b>GE UD 2</b>
<b>CST334</b>	Operating Systems	<b>4</b>	<b>Major</b>
<b>CST325 or 336 or 380 (Spring only)</b>		<b>4</b>	<b>Conc 2</b>
<b>Major Elective #1</b>		<b>4</b>	<b>Major Elective 1</b>
Fall Senior Courses Course Prefix and Number	Course Title Abbreviate Course Title	Units	Requirement Met GE/UR/Major
<b>Major Elective #2</b>		<b>4</b>	<b>Major Elective 2</b>
<b>Major Elective #3</b>		<b>4</b>	<b>Major Elective 3</b>
<b>CST438</b>	Software Engineering	<b>4</b>	<b>Conc 3</b>
<b>CST462s</b>	Race, Gender, Class in the Digital World	<b>3</b>	<b>GE UD 4 &amp; UDSL</b>
Spring Senior Courses Course Prefix and Number	Course Title Abbreviate Course Title	Units	Requirement Met GE/UR/MajorCST
<b>CST499</b>	Computer Science Capstone	<b>4</b>	<b>Major</b>
<b>Any approved course</b>	E.g. JAPN 350 or SPAN 350	<b>3</b>	<b>UD 3 &amp; WLC</b>
<b>Any approved course</b>		<b>3</b>	<b>Elective</b>
<b>Any approved course</b>		<b>3</b>	<b>Elective</b>