

## Computer Science B.S. Network & Security | 4-Year Pathway 2023-2024

Fall Freshman Courses (15 units)	Course or GE Title	Units	GE/Major
FYS 145	Digital Media Arts and Culture	3	FYS, C2
MATH 130	Precalculus	5	B4
HCOM 110	Fundamentals of Speaking & Listening	3	A1
CST 286	Physics of Computing	4	B1 & B3
Spring Freshmen Courses (17 units)	Course or GE Title	Units	GE/Major
CST 231	Problem Solving/ Programming	4	Major Core
MATH 170	Discrete Mathematics	4	Major Core
HCOM 125, SBS 110, CAD 101B or (CAD 102 +CAD 90)	Written Communication	3	A2
Any approved course	Arts GE Area C1 course	3	C1
BIO 204 or ENVS 201	Life Science GE area B2 course	3	B2
Fall Sophomore Courses (14 units)	Course or GE Title	Units	GE/Major
CST 238	Introduction to Data Structures	4	Core
MATH 150	Calculus I	4	Core
SL210S, ED212S, GS280S, HCOM260S, SBS212S	Civics/Service Learning GE course (US 2,3)	3	D3-Civics/SL (US 2,3)
HCOM 200 or 202 or ENSTU 130	Critical Thinking GE	3	A3
Spring Sophomore Courses (15 units)	Course or GE Title	Units	GE/Major
MATH 270 or MATH 151	Mathematics for Computing or Calculus II	4	Major Core
CST 338	Software Design	4	Major Core
GS 236, HCOM 220, 224, 229, 243*, 246, or 247, HOSP 221, SBS 249* or SPAN 260	GE area F (SBS 249 and HCOM 243 double-count for US History (US 1)	3	F
CST 237	Computer Architecture	4	Major Core
Fall Junior Courses (15 units)	Course or GE Title	Units	GE/Major
CST 300	Major Pro-Seminar	4	GWAR, Core
CST 370	Design & Analysis of Algorithms	4	Major Core
CST 205, 325, 326, 336, 363, 383 or 438	CS elective not counted elsewhere. CS course not part of concentration	4	CS Elective #1
Any C1 or C2 course	Arts or Humanities GE Area C course	3	C1 or C2 GE
Spring Junior Courses (15 units)	Course or GE Title	Units	GE/Major
CST 334	Operating Systems	4	Major Core
CST 311	Intro. to Computer Networks	4	Concentration #1
CST 205 or 325 or 326 (Spring only) or 336 or 363 or 383 or 438	CS elective not counted elsewhere. CS course not part of concentration	4	CS Elective #2
CST 329 or other UDB	Reasoning with Logic or other UDB GE	3	UDB
Fall Senior Courses (15 units)	Course or GE Title	Units	GE/Major
CST 312 (Fall only)	Network Security	4	Concentration #2
CST 412 (Fall only)	Network Administration	4	Concentration #3
CST 205 or 325 or 326 (Spring only) or 336 or 363 or 383 or 438	CS elective not counted elsewhere. CS course not part of concentration	4	CS Elective #3
CST 274, HCOM 251 or 265, or SBS 111	US History (US 1) GE/CSU requirement	3	DHIS, (US 1)
Spring Senior Courses (14 units)	Course or GE Title	Units	GE/Major
CST 499	Computer Science Capstone	4	Major Core
KIN 161 or 263 or HDFS 200 or PSY 210	Lifelong Learning & Self-Development	3	E
CST 462S	Race, Gender, Class in the Digital World	3	Core, UDSL, UDD
SPAN 340 or 350 or JAPN 340 or 350	UDC with World Culture & Language	3	UDC, WCL
Free Elective	Free Elective to reach 120 units	1	Free elective if needed
<b>Total Units Networks &amp; Security:</b>		<b>120</b>	