

4-Year Academic Plan: Computer Science

The following is a sample outline demonstrating 4-year completing of this bachelor's degree. Each student's reality will vary slightly, as this plan does not include transfer work, advanced placement (AP), or concurrent enrollment credits. Math and English placement will be based on the student's ACT/SAT scores. PLEASE NOTE: The following plan assumes students are prepared to take the MATH course listed. If prerequisites are required, additional semesters may be required to complete the degree.

This is a **GUIDE ONLY**. Please meet with your academic advisor and consult DegreeWorks for specifics.

1st Year Fall 2020 (16 credits)					1st Year Spring 2021 (17 credits)				
CSIS	1000	Intro to Computer Apps and Int.	3	F/S/Su	MATH	1220	Calculus II	4	F/S/Su
CSIS	1010	E-Commerce and Global Society	3	F/S	CSIS	1300	Programming with Python	3	S
ENGL	1010	Intro to Academic Writing	3	F/S/Su	CS	1410	Object Oriented Programming	3	F/S/Su
MATH	1210	Calculus I	4	F/S/Su	ENGL	2010	Intermediate Writing	3	F/S/Su
CS	1400	Fundamentals of Programming	3	F/S	INFO	1010	Information Literacy	1	F/S/Su
					IS	2600	Data Comm. and Networking	3	F/S
2nd Year Fall 2021 (15 credits)					2nd Year Spring 2022 (16 credits)				
MATH	2270	Linear Algebra	3	F/S/Su	IS	2000	Web Development	3	F/S
CS	2300	Discrete Structures	3	F	CS	2810	Computer Org. and Arch.	3	S
CS	2420	Intro to Alg's & Data Structures	3	F/S/Su	CS	3000	Advanced Algs. and Data Struct.	3	S
EET	2780	Digital Electronics I	3	F	CS	3550	Foundations of Comp. Theory	3	S
CS	3200	Database Design and Mgmt.	3	F/S	CS	-	*Upper-Division CS Elective	3	-
3rd Year Fall 2022 (17 credits)					3rd Year Spring 2023 (15 credits)				
CS	2450	Software Engineering	3	F	CS	3600	Operating Systems	3	S
IS	3650	Defensive Security	3	F	MATH	3700	Probability and Statistics	4	F/S
CS	4550	Programming Languages	3	F	CS	-	*Upper-Division CS Elective	3	-
CS	-	*Upper-Division CS Elective	3	-	CS	-	*Upper-Division CS Elective	3	-
SCI	-	*BIO/CHEM/PHYS - I	5	-	SCI	-	*BIO/CHEM/PHYS - II	3	-
4th Year Fall 2023 (15 Credits)					4th Year Spring 2024 (12 Credits)				
CS	3150	C & C++ Programming	3	F	CS	4800	CS Capstone Project	3	S
CS	-	*Upper-Division CS Elective	3	-	CS	-	*Upper-Division CS Elective	3	-
CS	-	*Upper-Division CS Elective	3	-	GE	-	*Humanities	3	-
GE	-	*American Institution	3	-	GE	-	*Life/Phi Sci (If Needed)	3	-
GE	-	*Fine Arts	3	-					

Color Key:

General Education Courses (Green)

Major-required courses that also fulfill GE requirement (purple)

Major Courses (black)

Electives/minor/etc. (red)

Other Notes:

(*) indicates available options. See course catalog for details.