NOVA SOUTHEASTERN UNIVERSITY | NSU Florida

COLLEGE OF COMPUTING AND ENGINEERING
SAMPLE FOUR YEAR CURRICULUM | 2022-2023 CATALOG
Bachelor of Science — Computer Science

Freshman Year			
Fall		**Winter**	
Course	Credits	Course	Credits
UNIV 1000: First Year Seminar	3	Open Written Communication	3
CSIS 1800 Introduction to Computer and Info. Sciences	3	CSIS 3101 Advanced Computer Programming	4
MATH 2100 Calculus I	4	CSIS 2050 Discrete Mathematics	4
CSIS 2101 Fundamentals of Computer Programming	4	Open Elective	3
Total Credits	**14**	**Total Credits**	**14**

Sophomore Year			
Fall		**Winter**	
Course	Credits	Course	Credits
CSIS 3200 Organization of Programming Language	3	Open Written Communication	3
CSIS 3400 Data Structures	4	MATH 3300 Introductory Linear Algebra	3
CSIS 3500 Networks and Data Communication	3	CSIS 3051 Computer Organization & Architecture	4
MATH 2200 Calculus II	4	CSIS 3750 Software Engineering	4
Total Credits	**14**	**Total Credits**	**14**

Junior Year			
Fall		**Winter**	
Course	Credits	Course	Credits
Open Social & Behavioral Sciences	3	CSIS 3460 Object Oriented Design	3
CSIS 3023 Legal and Ethical Aspects of Computers	3	Major Elective	3
CSIS 3810 Operating Systems Concepts	3	Science Course (BIOL, CHEM, ENVS, MBIO, or PHYS)	4
PHYS 2400 Physics I/Lab	4	Open Arts & Humanities	3
Open Elective	3	Open Elective	3
Total Credits	**16**	**Total Credits**	**16**

Senior Year			
Fall		**Winter**	
Course	Credits	Course	Credits
Open Social & Behavioral Sciences	3	CSIS 4610 Design and Analysis Algorithms	3
MATH 4500 Probability and Statistics	3	CSIS 4903 Capstone Course or CSIS 4953 Internship	3
CSIS 3610 Numerical Analysis	4	Major Elective	3
Major Elective	3	Open Elective	3
Open Arts & Humanities	3	Open Elective	4
Total Credits	**16**	**Total Credits**	**16**

TOTAL CREDITS: 120

NOVA SOUTHEASTERN UNIVERSITY | NSU Florida

COLLEGE OF COMPUTING AND ENGINEERING
DEGREE CURRICULUM SHEET | 2022-2023 CATALOG
Bachelor of Science - Computer Science

FIRST YEAR SEMINAR		
Course	**Credits**	**Frequency**
UNIV 1000: First Year Seminar	3	
Total First Year Seminar Credits	**3**	

GENERAL EDUCATION REQUIREMENTS		
Area/Course	**Credits**	**Frequency**
Written Composition		
6 credits at or above COMP 1500		
COMP 1500 College Writing	3	FW
COMP 2000 Adcanced College Writing	3	FW
Mathematics		
6 credits at or above MATH 1040		
satisfied by major	3	
satisfied by major	3	
Arts & Humanities		
6 credits in HIST, ARTS, PHIL, HUMN, LITR, THEA, FILM, MUSC, DANC, WRIT, foreign language		
Open Arts & Humanities	3	
Open Arts & Humanities	3	
Social & Behavioral Sciences		
6 credits in PSYC, SOCL, ANTH, ECN, COMM, GEOG, GEST, INST, POLS		
Open Social & Behavioral Sciences	3	
Open Social & Behavioral Sciences	3	
Science		
6 credits in BIOL, MBIO, CHEM, SCIE, ENVS, PHYS		
satisfied by major	3	
satisfied by major	3	
Total General Education Credits	**30**	

OPEN ELECTIVES	
take 17 open elective credits	
Total Open Elective Credits	**13**

Frequency Key: F-Every Fall; W-Every Winter; FO - Odd Year Fall; FE - Even Year Fall; WO - Odd Year Winter; WE - Even Year Winter

MAJOR PREREQUISITES			
take 16 open elective credits			
Some recommended open electives:			
Course		**Credits**	**Frequency**
MATH 2100 Calculus I		4	FW
MATH 2200 Calculus II		4	FW
MATH 3300 Introductory Linear Algebra		3	FW
MATH 4500 Probability and Statistics		3	F
PHYS 2400 Physics I	I/Lab	4	FW
Any Science Credits (BIOL, MBIO, CHEM, ENVS, PHYS)		4	FW
Total Major Prerequisites Credits		**22**	

MAJOR		
Course	**Credits**	**Frequency**
CSIS 1800 Introduction to Computer and Info. Sciences	3	FW
CSIS 2050 Discrete Mathematics	4	W
CSIS 2101 Fundamentals of Computer Programming	4	FW
CSIS 3023 Legal and Ethical Aspects of Computers	3	F
CSIS 3051 Computer Organization and Architecture	4	W
CSIS 3101 Advanced Computer Programming	4	W
CSIS 3200 Organization of Programming Language	3	F
CSIS 3400 Data Structures	4	F
CSIS 3460 Object Oriented Design	3	W
CSIS 3500 Networks and Data Communication	3	F
CSIS 3610 Numerical Analysis or MATH course at the 3000 level or higher not counted as Major Requirement	4	F
CSIS 3750 Software Engineering	4	W
CSIS 3810 Operating Systems Concepts	3	F
CSIS 4610 Design and Analysis Algorithms	3	W
Capstone		
CSIS 4903 Capstone Project for Computer Science *or*	3	FW
CSIS 4953 Capstone Internship in Computer Science	3	FW
Total Major Credits	**52**	

MAJOR ELECTIVES	
Select 9 credits from any CSIS, CENG, EENG, or SENG courses of level 3000 or higher not listed above provided the student has satisfied prerequisites.	
Total Major Elective Credits	**9**

TOTAL CREDITS: 120