

2019

Bachelor of Science-Computer Science 2019-2020

Nova Southeastern University

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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
<u>Written Composition</u>		
6 credits at or above COMP 1500		
COMP 1500 College Writing	3	FW
COMP 2000 Advanced College Writing	3	FW
<u>Mathematics</u>		
6 credits at or above MATH 1040		
satisfied by major	3	
satisfied by major	3	
<u>Arts & Humanities</u>		
6 credits in HIST, ARTS, PHIL, HUMN, LITR, THEA, FILM, MUSC, DANC, WRIT, foreign language		
Open Arts & Humanities	3	
Open Arts & Humanities	3	
<u>Social & Behavioral Sciences</u>		
6 credits in PSYC, SOCL, ANTH, ECN, COMM, GEOG, GEST, INST, POLS		
Open Social & Behavioral Sciences	3	
Open Social & Behavioral Sciences	3	
<u>Science</u>		
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		
Course	Credits	Frequency
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		
<i>Some recommended open electives:</i>		
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	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
<u>Capstone</u>		
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.		
Course	Credits	Frequency
Total Major Elective Credits	9	

TOTAL CREDITS: 120

College of Engineering and Computing
SAMPLE FOUR YEAR CURRICULUM | 2019-2020 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				