

2015

B. S. in Computer Science 2015 curriculum

Nova Southeastern University

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FARQUHAR COLLEGE OF ARTS AND SCIENCES
DEGREE CURRICULUM SHEET | 2015 CATALOG
Bachelor of Science - Computer Science



GENERAL EDUCATION REQUIREMENTS

Area/Course	Credits	Frequency
Written Composition		
<i>6 credits at or above COMP 1500</i>		
Open Written Communication	3	
Open Written Communication	3	
Mathematics		
<i>6 credits at or above MATH 1040</i>		
<i>satisfied by major</i>	3	
<i>satisfied by major</i>	3	
Arts & Humanities		
<i>6 credits in HIST, ARTS, PHIL, HUMN, LITR, THEA, FILM, MUSC, DANC, WRIT, foreign language</i>		
Open Arts & Humanities	3	
Open Arts & Humanities	3	
Social & Behavioral Sciences		
<i>6 credits in PSYC, SOCL, ANTH, ECN, COMM, GEOG, GEST, INST, POLS</i>		
Open Social & Behavioral Sciences	3	
Open Social & Behavioral Sciences	3	
Science		
<i>6 credits in BIOL, MBIO, CHEM, SCIE, ENV5, PHYS</i>		
<i>satisfied by major</i>	3	
<i>satisfied by major</i>	3	
Total General Education Credits	30	

MAJOR PREREQUISITES

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/Lab	4	FW
PHYS 2500 Physics II/Lab	4	FW
Total Major Prerequisite Credits	22	

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

Course	Credits	Frequency
CSIS 1800 Introduction to Computer and Info. Sciences	3	FW
CSIS 2050 Discrete Mathematics	3	FW
CSIS 2101 Fundamentals of Computer Programming	4	FW
CSIS 3023 Legal and Ethical Aspects of Computers	3	F
CSIS 3050 Assemblers and Assembly Lang. Programming	4	W
CSIS 3101 Advanced Computer Programming	4	FW
CSIS 3400 Data Structures	4	FW
CSIS 3460 Object Oriented Design	3	FW
CSIS 3500 Networks and Data Communication	3	F
CSIS 3750 Software Engineering	4	W
CSIS 3810 Operating Systems Concepts	3	FW
CSIS 4050 Computer Architecture	3	W
CSIS 4600 Systems Programming	4	F
CSIS 4610 Design and Analysis Algorithms	3	W
Capstone		
CSIS 4903 Capstone Project for Computer Science <i>or</i>	3	W
CSIS 4953 Capstone Internship in Computer Science	3	W
Total Major Credits	51	

MAJOR ELECTIVES

Course	Credits	Frequency
<i>Select 9 credits from the following:</i>		
Any CSIS, CENG, EENG, or SENG courses of level 3000 or higher that is not listed above, provided the student has satisfied the prerequisites.	3	
MATH 3260 Combinatorics	3	WE
MATH 3350 Number Theory	3	WO
MATH 4350 Abstract Algebra I	3	FO
MATH 4700 Applied Cryptography	3	WE
Total Major Elective Credits	9	

OPEN ELECTIVES

take 20 elective credits	20	
Total Open Electives Credits	20	

TOTAL CREDITS: 120



FARQUHAR COLLEGE OF ARTS AND SCIENCES
SAMPLE FOUR YEAR CURRICULUM | 2015 CATALOG
Bachelor of Science - Computer Science



Freshman Year

Fall		Winter	
<u>Course</u>	<u>Credits</u>	<u>Course</u>	<u>Credits</u>
Open Written Communication	3	Open Written Communication	3
CSIS 1800 Introduction to Computer and Info. Sciences	3	CSIS 3101 Advanced Computer Programming	4
CSIS 2050 Discrete Mathematics	3	MATH 2100 Calculus I	4
CSIS 2101 Fundamentals of Computer Programming	4	Open Elective	3
Total Credits	13	Total Credits	14

Sophomore Year

Fall		Winter	
<u>Course</u>	<u>Credits</u>	<u>Course</u>	<u>Credits</u>
Open Arts & Humanities	3	Open Arts & Humanities	3
Open Social & Behavioral Sciences	3	Open Social & Behavioral Sciences	3
CSIS 3500 Networks and Data Communication	3	CSIS 3050 Assemblers and Assembly Lang. Programmi	4
MATH 2200 Calculus II	4	CSIS 3400 Data Structures	4
Open Elective	3	Open Elective	3
Total Credits	16	Total Credits	17

Junior Year

Fall		Winter	
<u>Course</u>	<u>Credits</u>	<u>Course</u>	<u>Credits</u>
MATH 3300 Introductory Linear Algebra	3	CSIS 3750 Software Engineering	4
CSIS 3023 Legal and Ethical Aspects of Computers	3	CSIS 4050 Computer Architecture	3
CSIS 3810 Operating Systems Concepts	3	PHYS 2500 Physics II/Lab	4
PHYS 2400 Physics I/Lab	4	Open Elective	3
Open Elective	3		
Total Credits	16	Total Credits	14

Senior Year

Fall		Winter	
<u>Course</u>	<u>Credits</u>	<u>Course</u>	<u>Credits</u>
CSIS 3460 Object Oriented Design	3	CSIS 4610 Design and Analysis Algorithms	3
CSIS 4600 Systems Programming	4	Capstone Course	3
MATH 4500 Probability and Statistics	3	Major Elective	3
Major Elective	3	Major Elective	3
Open Elective	2	Open Elective	3
Total Credits	15	Total Credits	15

TOTAL CREDITS: 120