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2015

Bachelor of Science-Information Technology Degree Curriculum

Nova Southeastern University

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COLLEGE OF ENGINEERING AND COMPUTING DEGREE CURRICULUM SHEET | 2015-2016 CATALOG

Bachelor of Science - Information Technology

GENERAL EDUCATION REQUIREMENTS			
Area/Course	Credits	Frequency	
Written Composition			
6 credits at or above COMP 1500			
Open Written Communication	3		
Open Written Communication	3		
<u>Mathematics</u>			
6 credits at or above MATH 1040			
Satisfied by major	3		
Open Math	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		
<u>Science</u>			
6 credits in BIOL, MBIO, CHEM, SCIE, ENVS, PHYS			
Open Science	3		
Open Science	3		
Total General Education Credits	30		

OPEN ELECTIVES	5
take 26 elective credits	26
Total Open Electives Credits	26

*These courses can be counted only once, either as a core course or as a major elective; only 3 credits of each of these courses may be applied to the major.

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
MATH 1200 Precalculus Algebra (or higher)		FW
CSIS 2000 Introduction to Database Systems		F
CSIS 2050 Discrete Mathematics		FW
CSIS 2101 Fundamentals of Computer Programming or		FW
TECH 2100 Introduction to Programming		W
CSIS 3500 Networks and Data Communication	3	F
CSIS 4010 Computer Security	3	W
CSIS 4530 Database Management	3	W
TECH 1111 Computer Applications		FW
TECH 1800 Introduction to Information Technology or		F
CSIS 1800 Introduction to Computer and Info. Sciences		FW
TECH 2150 Introduction to Internet Resources	3	W
TECH 3000 Multimedia Design	3	W
TECH 3010 Principles of Web Site Design	3	F
TECH 3022 Integrative Programming and Technologies	3	F
TECH 3810 Computing Platforms	3	W
TECH 4055 System Architecture		W
TECH 4310 Web Services and Systems	3	W
TECH 4350 Human-Computer Interaction	3	W
TECH 4900 Directed Project* or	3	W
TECH 4950 Internship in Technology*	3	W
Total Major Credits	55	

MAJOR ELECTIVES				
Course	Credits	Frequency		
Select 9 credits from the following:				
CSIS 3023 Legal and Ethical Aspects of Computers	3	F		
CSIS 4500 Network Security	3	F		
TECH 2130 Business Applications of Microcomputers	3	W		
TECH 4500 Wireless Network Infrastructures	3	W		
TECH 4710 Basic Computer Forensics	3	FO		
TECH 4890 Special Topics in Information Technology	3	I		
TECH 4900 Directed Project*	3	W		
TECH 4950 Internship in Technology*	3	W		
TECH 4990 Independent Study in Technology	3	FW		
Total Major Elective Credits	9			

TOTAL CREDITS: 120



Total Credits

COLLEGE OF ENGINEERING AND COMPUTING DEGREE CURRICULUM SHEET | 2015-2016 CATALOG

Bachelor of Science - Information Technology

	Freshm	nan Year	
Fall	Tresim	Winter	
Course	Credits	Course	Credits
Open Written Communication	3	Open Written Communication	3
Open Arts & Humanities	3	Open Arts & Humanities	3
MATH 1200 Precalculus Algebra (or higher)	3	Open Math	3
TECH 1111 Computer Applications	3	CSIS 1800 Intro. to Computer and Info. Sciences or	
Open Elective	3	TECH 1800 Introduction to Information Technology	3
		Open Elective	3
Total Credits	15	Total Credits	15
	Sophon	nore Year	
Fall		Winter	
Course	<u>Credits</u>	Course	<u>Credits</u>
Open Social & Behavioral Sciences	3	Open Social & Behavioral Sciences	3
Open Science	3	Open Science	3
CSIS 2000 Introduction to Database Systems	3	CSIS 2101 Fundamentals of Comp. Programming or	4
CSIS 2050 Discrete Mathematics	3	TECH 2100 Introduction to Programming	
Open Elective	3	TECH 3000 Multimedia Design	3
		TECH 2150 Introduction to Internet Resources	3
Total Credits	15	Total Credits	16
	Junio	or Year	
Fall		Winter	
C			
<u>Course</u>	<u>Credits</u>	<u>Course</u>	<u>Credits</u>
CSIS 3500 Networks and Data Communication	<u>Credits</u> 3	CSIS 4010 Computer Security	Credits 3
CSIS 3500 Networks and Data Communication TECH 3010 Principles of Web Site Design		CSIS 4010 Computer Security CSIS 4530 Database Management	
CSIS 3500 Networks and Data Communication TECH 3010 Principles of Web Site Design Major Elective	3 3 3	CSIS 4010 Computer Security CSIS 4530 Database Management TECH 3810 Computing Platforms	3 3 3
CSIS 3500 Networks and Data Communication TECH 3010 Principles of Web Site Design	3 3	CSIS 4010 Computer Security CSIS 4530 Database Management	3
CSIS 3500 Networks and Data Communication TECH 3010 Principles of Web Site Design Major Elective Open Elective Open Elective	3 3 3 3 3	CSIS 4010 Computer Security CSIS 4530 Database Management TECH 3810 Computing Platforms TECH 4055 System Architecture Open Elective	3 3 3 3 3
CSIS 3500 Networks and Data Communication TECH 3010 Principles of Web Site Design Major Elective Open Elective	3 3 3 3 3 15	CSIS 4010 Computer Security CSIS 4530 Database Management TECH 3810 Computing Platforms TECH 4055 System Architecture Open Elective Total Credits	3 3 3 3
CSIS 3500 Networks and Data Communication TECH 3010 Principles of Web Site Design Major Elective Open Elective Open Elective Total Credits	3 3 3 3 3 15	CSIS 4010 Computer Security CSIS 4530 Database Management TECH 3810 Computing Platforms TECH 4055 System Architecture Open Elective Total Credits or Year	3 3 3 3 3
CSIS 3500 Networks and Data Communication TECH 3010 Principles of Web Site Design Major Elective Open Elective Open Elective Total Credits Fall	3 3 3 3 15 Senio	CSIS 4010 Computer Security CSIS 4530 Database Management TECH 3810 Computing Platforms TECH 4055 System Architecture Open Elective Total Credits or Year Winter	3 3 3 3 3 15
CSIS 3500 Networks and Data Communication TECH 3010 Principles of Web Site Design Major Elective Open Elective Open Elective Total Credits Fall Course	3 3 3 3 15 Senio	CSIS 4010 Computer Security CSIS 4530 Database Management TECH 3810 Computing Platforms TECH 4055 System Architecture Open Elective Total Credits or Year Winter Course	3 3 3 3 15
CSIS 3500 Networks and Data Communication TECH 3010 Principles of Web Site Design Major Elective Open Elective Open Elective Total Credits Fall Course TECH 3022 Integrative Programming and Technologies	3 3 3 3 15 Senio	CSIS 4010 Computer Security CSIS 4530 Database Management TECH 3810 Computing Platforms TECH 4055 System Architecture Open Elective Total Credits or Year Winter Course TECH 4310 Web Services and Systems	3 3 3 3 15 <u>Credits</u> 3
CSIS 3500 Networks and Data Communication TECH 3010 Principles of Web Site Design Major Elective Open Elective Open Elective Total Credits Fall Course TECH 3022 Integrative Programming and Technologies TECH 4900 Directed Project or	3 3 3 3 15 Senio	CSIS 4010 Computer Security CSIS 4530 Database Management TECH 3810 Computing Platforms TECH 4055 System Architecture Open Elective Total Credits or Year Winter Course TECH 4310 Web Services and Systems TECH 4350 Human-Computer Interaction	3 3 3 3 15 Credits 3 3
CSIS 3500 Networks and Data Communication TECH 3010 Principles of Web Site Design Major Elective Open Elective Open Elective Total Credits Fall Course TECH 3022 Integrative Programming and Technologies TECH 4900 Directed Project or TECH 4950 Internship in Technology	3 3 3 3 15 Senio	CSIS 4010 Computer Security CSIS 4530 Database Management TECH 3810 Computing Platforms TECH 4055 System Architecture Open Elective Total Credits or Year Winter Course TECH 4310 Web Services and Systems TECH 4350 Human-Computer Interaction Major Elective	3 3 3 3 15 Credits 3 3 3
CSIS 3500 Networks and Data Communication TECH 3010 Principles of Web Site Design Major Elective Open Elective Open Elective Total Credits Fall Course TECH 3022 Integrative Programming and Technologies TECH 4900 Directed Project or TECH 4950 Internship in Technology Major Elective	3 3 3 3 15 Senio	CSIS 4010 Computer Security CSIS 4530 Database Management TECH 3810 Computing Platforms TECH 4055 System Architecture Open Elective Total Credits Or Year Winter Course TECH 4310 Web Services and Systems TECH 4350 Human-Computer Interaction Major Elective Open Elective	3 3 3 3 15 Credits 3 3 3 3 3
CSIS 3500 Networks and Data Communication TECH 3010 Principles of Web Site Design Major Elective Open Elective Open Elective Total Credits Fall Course TECH 3022 Integrative Programming and Technologies TECH 4900 Directed Project or TECH 4950 Internship in Technology	3 3 3 3 15 Senio	CSIS 4010 Computer Security CSIS 4530 Database Management TECH 3810 Computing Platforms TECH 4055 System Architecture Open Elective Total Credits or Year Winter Course TECH 4310 Web Services and Systems TECH 4350 Human-Computer Interaction Major Elective	3 3 3 3 15 Credits 3 3 3

TOTAL CREDITS: 120

Total Credits

15

NOTE: TECH 4900, TECH 4950, and TECH 4900 can be counted only once, either as a core course or as a major elective; only 3 credits of each of these courses may be applied to the major.

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^{*}This sample plan is based on the student starting at least at the level of MATH 1200: Precalculus Algebra. The plan will need to be adjusted for students who begin at a lower level of MATH.