COMPUTER SCIENCE, BS

Course SequencingSystems Programming

	ianning	
First Year		
Fall		Hours
UNIV 1101	University Seminar I	1
ENGL 1301	Writing and Rhetoric I	3
COSC 1435	Introduction to Problem Solving with Computers I	4
COSC 3100	Skills for Computing Professionals I	1
MATH 2413	Calculus I	4
Social and Behavi	oral Sciences Core Requirement	3
	Hours	16
Spring		
UNIV 1102	University Seminar II	1
ENGL 1302	Writing and Rhetoric II	3
or COMM 1311	or Foundation of Communication	
COSC 1436	Introduction to Problem Solving with Computers II	4
COSC 3301	Cyber Security	3
MATH 2305	Discrete Mathematics I	3
	Hours	14
Second Year		
Fall		
COSC 2334	Computer Architecture	3
COSC 2437	Data Structures	4
MATH 2414	Calculus II	4
POLS 2305	U.S. Government and Politics	3
Creative Arts Core	Requirement	3
	Hours	17
Spring		
ENGL 3310	Technical and Professional Writing for	3
	Computer Science	
COSC 3324	Object-oriented Programming	3
COSC 3353	Survey of Programming Languages	3
POLS 2306	State and Local Government	3
Approved Upper-D	Division COSC Course	3
	Hours	15
Third Year		
Fall		
MATH 3342 or MATH 3345	Applied Probability and Statistics or Statistical Modeling and Data Analysis	3
COSC 3336	Introduction to Database Systems	3
COSC 3370	Software Engineering	3
COSC 3385	Numerical Methods	3
Science Sequence	9	4
	Hours	16
Spring		
COSC 3346	Operating Systems	3
COSC 3373	Software Project Management	3
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Approved Upper-I	Division COSC Course	3
American History Core Requirement		3
Science Sequenc	e	4
	Hours	16
Fourth Year		
Fall		
COSC 4100	Skills for Computing Professionals II	1
COSC 4342	Computer Networks	3
COSC 4343	Algorithms	3
COSC 4353 or COSC 4360 or COSC 4370	Compiler Construction or Theory of Programming Languages or Models of Computation	3
Approved Upper-I	Division COSC Course	3
American History	Core Requirement	3
	Hours	16
Spring		
COSC 4354	Senior Capstone Project	3
COSC 4348	Systems Programming	3
Approved Upper-Division COSC Course		3
Language, Philose	ophy & Culture Core Requirement	3
	Hours	12
	Total Hours	122

Cyber Security and Infrastructure

Spring COSC 2466

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First Year		
Fall		Hours
UNIV 1101	University Seminar I	1
ENGL 1301	Writing and Rhetoric I	3
COSC 1435	Introduction to Problem Solving with Computers I	4
COSC 3100	Skills for Computing Professionals I	1
MATH 2413	Calculus I	4
Social and Behavi	oral Sciences Core Requirement	3
	Hours	16
Spring		
UNIV 1102	University Seminar II	1
ENGL 1302 or COMM 1311	Writing and Rhetoric II or Foundation of Communication	3
COSC 1436	Introduction to Problem Solving with Computers II	4
COSC 2348	Introduction to Scripting	3
MATH 2305	Discrete Mathematics I	3
	Hours	14
Second Year		
Fall		
COSC 2334	Computer Architecture	3
COSC 2437	Data Structures	4
COSC 2465	Linux Systems	4
POLS 2305	U.S. Government and Politics	3
Creative Arts Core	Requirement	3
	Hours	17

Network Systems

COSC 3336	Introduction to Database Systems	3	ENGL 1302	Writing and Rhetoric II	3
POLS 2306	State and Local Government	3	or COMM 1311	or Foundation of Communication	
American History	Core Requirement	3	COSC 1436	Introduction to Problem Solving with	4
Component Area	Option Core Requirement	3		Computers II	
	Hours	16	COSC 2325	Game Design	3
Third Year			COSC 3301	Cyber Security	3
Fall			MATH 2305	Discrete Mathematics I	3
COSC 3351	Internet Programming	3		Hours	17
ENGL 3310	Technical and Professional Writing for Computer Science	3	Second Year Fall		
COSC 4365	Windows Security	3	COSC 2334	Computer Architecture	3
MATH 3342	Applied Probability and Statistics	3	COSC 2437	Data Structures	4
or MATH 3345	or Statistical Modeling and Data Analysis		PHYS 2425 MATH 2414	University Physics I Calculus II	4
COSC 3346	Operating Systems	3		Hours	15
	Hours	15	Spring		
Spring			PHYS 2426	University Physics II	4
COSC 3370	Software Engineering	3	MATH 3311	Linear Algebra	3
COSC 3372	Network Security	3	COSC 3325	Game Programming	3
COSC 4310	Digital Forensics	3	COSC 3336	Introduction to Database Systems	3
Component Area (Option Core Requirement	3	Language, Philoso	ophy & Culture Core Requirement	3
Approved Upper-D	Division COSC Course	3		Hours	16
	Hours	15	Third Year		
Fourth Year			Fall		
Fall			COSC 3324	Object-oriented Programming	3
COSC 4367	Firewall and Intrusion Detection Systems	3	COSC 3346	Operating Systems	3
COSC 3474	Cyber Defense I	4	COSC 3385	Numerical Methods	3
COSC 4100	Skills for Computing Professionals II	1	COSC 4328	Computer Graphics	3
American History	Core Requirement	3	POLS 2305	U.S. Government and Politics	3
Life & Physical Sc	ience Core Requirement	3		Hours	15
	Hours	14	Spring		
Spring			MATH 3342	Applied Probability and Statistics	3
COSC 4354	Senior Capstone Project	3	or MATH 3345	or Statistical Modeling and Data	
COSC 4368	Penetration Testing	3		Analysis	
Approved Upper-D	Division COSC Course	3	COSC 3370	Software Engineering	3
•	ience Core Requirement	3	COSC 4342	Computer Networks	3
Language, Philoso	ophy & Culture Core Requirement	3	COSC 4325	Advanced Game Programming	3
	Hours Total Hours	15 122	ENGL 3310	Technical and Professional Writing for Computer Science	3
				Hours	15
Computer Gar	ne Programming		Fourth Year		
First Year			Fall		
Fall		Hours	COSC 4330	Introduction to Artificial Intelligence	3
JNIV 1101	University Seminar I	1	COSC 4343	Algorithms	3
ENGL 1301	Writing and Rhetoric I	3	COSC 4100	Skills for Computing Professionals II	1
COSC 1435	Introduction to Problem Solving with	4	Theory Group		3
	Computers I			Division COSC Course	3
COSC 3100	Skills for Computing Professionals I	1	American History	Core Requirement	3
MATH 2413	Calculus I	4		Hours	16
Social and Behavi	oral Sciences Core Requirement	3	Spring		_
	Hours	16	COSC 4354	Senior Capstone Project	3
Spring			POLS 2306	State and Local Government	3
JNIV 1102	University Seminar II	1	American History	Core Requirement	3

	Hours	12
	Total Hours	122
Computer Info	ormation Systems	
Fall		Hours
UNIV 1101	University Seminar I	Hours 1
ENGL 1301	Writing and Rhetoric I	3
COSC 1435	Introduction to Problem Solving with	4
0030 1433	Computers I	4
COSC 3100	Skills for Computing Professionals I	1
MATH 2413	Calculus I	4
Social and Behavi	oral Sciences Core Requirement	3
	Hours	16
Spring		
UNIV 1102	University Seminar II	1
ENGL 1302	Writing and Rhetoric II	3
or COMM 1311	or Foundation of Communication	
COSC 1436	Introduction to Problem Solving with Computers II	4
MATH 2305	Discrete Mathematics I	3
Creative Arts Core	Requirement	3
	Hours	14
Second Year Fall		
COSC 2334	Computer Architecture	3
COSC 2437	Data Structures	4
COSC 2470	COBOL Programming	4
Minor Course		3
POLS 2305	U.S. Government and Politics	3
	Hours	17
Spring		
COSC 3336	Introduction to Database Systems	3
	ivision COSC Course	3
Minor Course		3
-	Core Requirement	3
POLS 2306	State and Local Government	3
	Hours	15
Third Year		
Fall		
MATH 3342 or MATH 3345	Applied Probability and Statistics or Statistical Modeling and Data Analysis	3
COSC 3346	Operating Systems	3
COSC 3324	Object-oriented Programming	3
Minor Course		3
American History	Core Requirement	3
	Hours	15
Spring		
COSC 3370	Software Engineering	3
ENGL 3310	Technical and Professional Writing for Computer Science	3

Creative Arts Core Requirement

Hours	15
Component Area Option Core Requirement	3
Language, Philosophy & Culture Core Requirement	3
Minor Course	3
Approved Upper-Division COSC Course	3
COSC 4354 Senior Capstone Project	3
Hours Spring	16
Life & Physical Science Core Requirement	3
Minor Course	3
Minor Course	3
Approved Upper-Division COSC Course	3
COSC 4342 Computer Networks	3
COSC 4100 Skills for Computing Professionals II	1
Fall	
Hours	15
Component Area Option Core Requirement	3
Life & Physical Science Core Requirement	3
Approved Upper-Division COSC Course	3