

Name _____

Date _____

Student ID _____

Email _____

FRESHMAN YEAR								
Fall Quarter		Cr	Winter Quarter		Cr	Spring Quarter		Cr
CSC 130*	The Science of Computing I	3	CSC 131*	The Science of Computing II	3	CSC 132*	The Science of Computing III	3
MATH 240*	Precalculus	3	MATH 241*	Calculus I	3	MATH 242*	Calculus II	3
COMM 101	Principles of Communication Studies	3	ENGL 101*	Freshman Composition I	3	BISC 130	Biological Principles	3
FYE 100	First Year Experience	1				BISC 131	Biological Principles Lab	1
		10			9			10
							TOTAL	28

Computer Science
Math
English/Humanities
Science
Social Science
Minor/Concentration

SOPHOMORE YEAR								
Fall Quarter		Cr	Winter Quarter		Cr	Spring Quarter		Cr
CSC 220*	Data Structures	3	CSC 222*	Systems Programming	3	CSC 345	Operating Systems	3
CSC 265*	Introduction to Digital Design	3	PHYS 201*	Physics for Engineering & Science I	3	PHYS 202	Physics for Engineering & Science II	3
MATH 311	Discrete Mathematics I	3	PHYS 261	Physics Lab	1	PHYS 262	Physics Lab	1
ENGL 102	Freshman Composition II	3	Social Science***		3	Social Science***		3
		12			10			10
							TOTAL	32

JUNIOR YEAR								
Fall Quarter		Cr	Winter Quarter		Cr	Spring Quarter		Cr
CSC 325*	Advanced Data Structures & Algorithms	3	CSC 330	Programming Languages	3	CSC 310	Theory of Computing	3
Math/Science Elective****		3	CSC 430	Database Management Systems	3	CSC 364	Computer Architecture	3
ART†	Fine Arts Appreciation	3	CSC Elective**		3	Minor/Concentration		3
ENGL 21X	Literature	3	ENGL 303	Technical Writing	3			
		12			12			9
							TOTAL	33

SENIOR YEAR								
Fall Quarter		Cr	Winter Quarter		Cr	Spring Quarter		Cr
CSC Elective**		3	CSC 403*	Software Design and Engineering	3	CSC 404	Senior Capstone	3
ENGL 363	Scientific and Technical Presentations	3	STAT 405	Statistical Methods	3	CSC Elective**		3
Minor/Concentration		3	Minor/Concentration		3	Minor/Concentration		3
		9			9			9
							TOTAL	27
								120

* Requires a grade of C or higher.

** CSC Directed Electives must be selected in consultation with student's advisor.

*** GEOG 205, GEOG 210, or GEOG 331 count as the International Education Requirement (IER).

**** Must be in Mathematics or Science above required.

† ART 290, SPTH 290, MUGN 290, or KINE 280 counts as the Fine Arts Requirement.

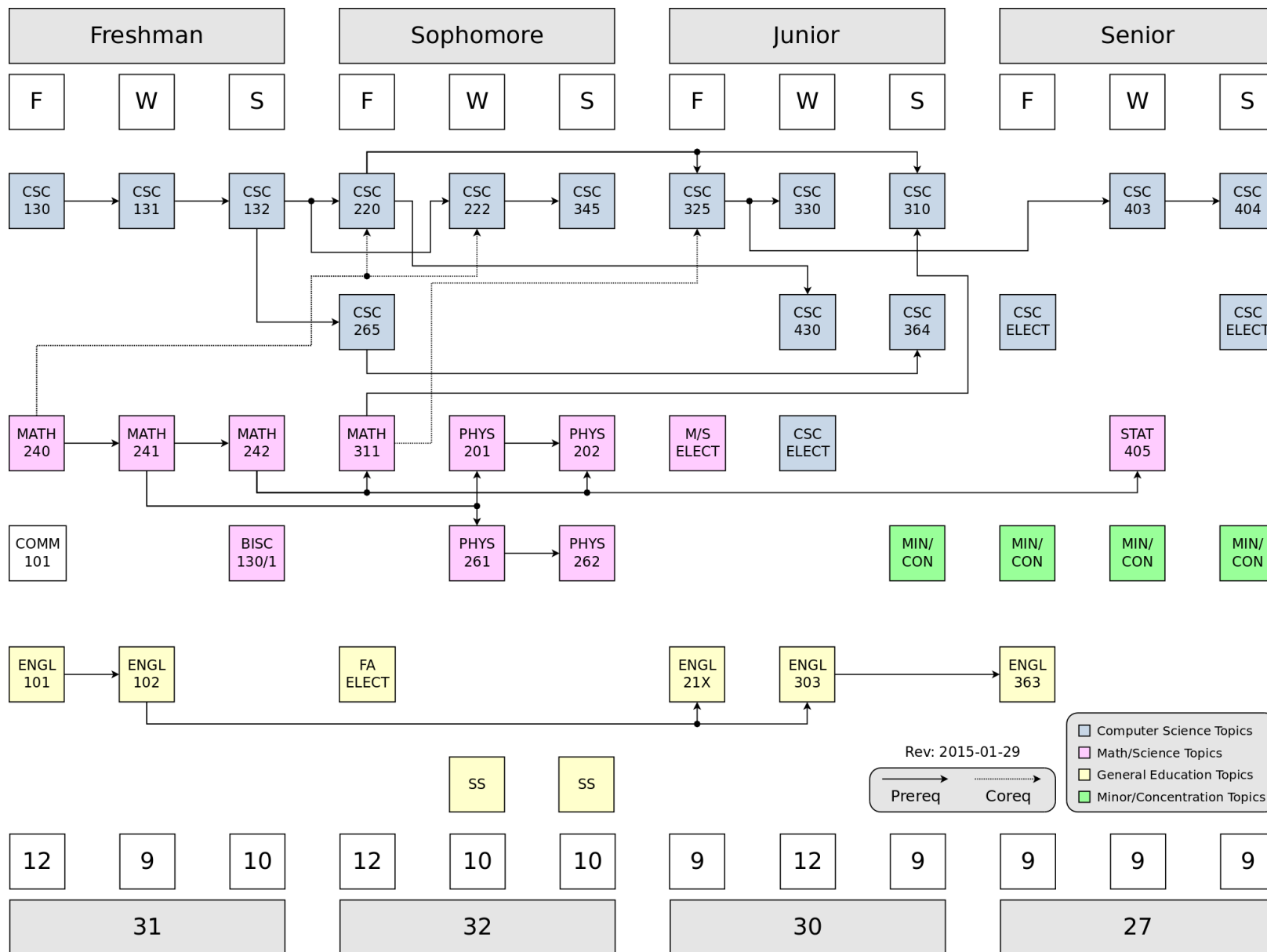
Courses in **bold** are typically offered only once per year.

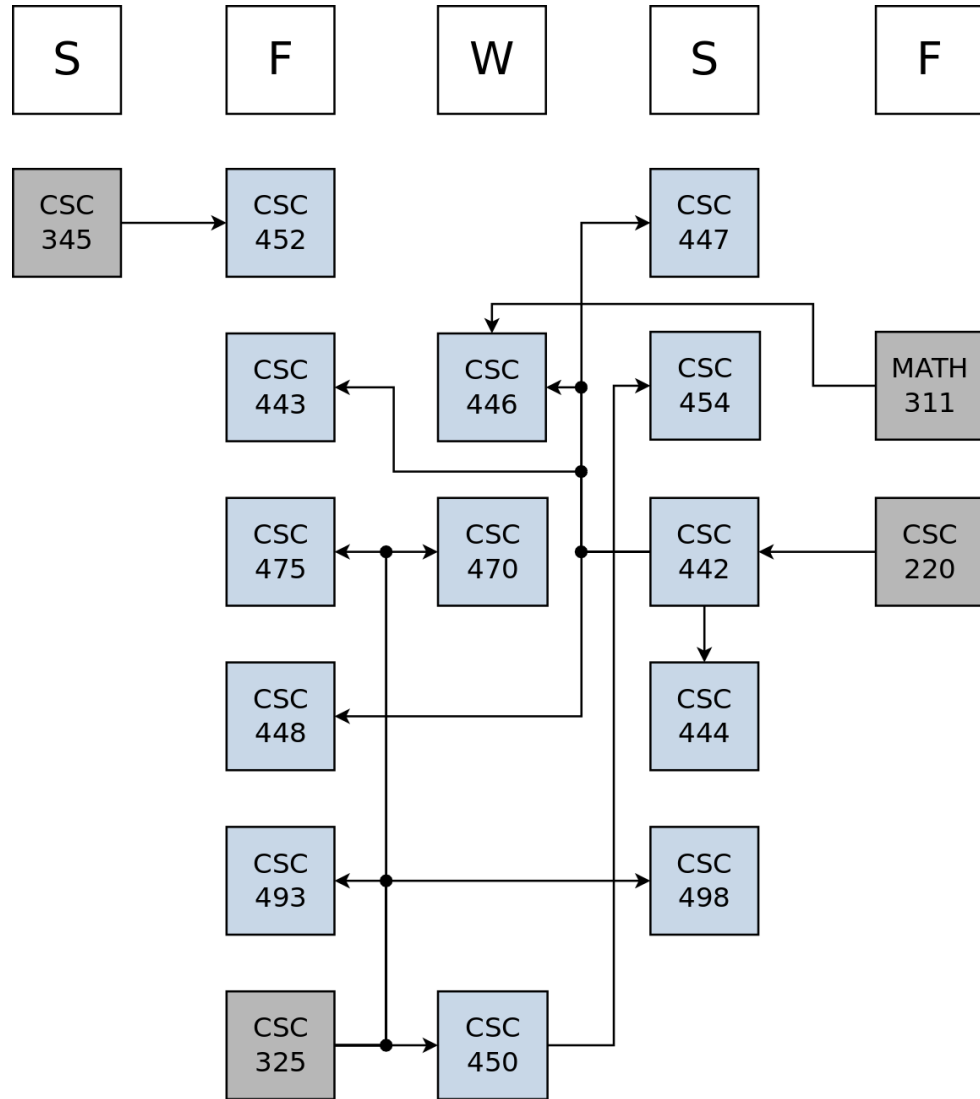
The Computer Science Program requires a "C" or better in any course in the COES prior to taking courses for which these are prerequisites.
A student must have a 2.0 cumulative GPA on all CSC courses.

CSC Course Offerings					
Course	Title	F	W	Sp	Su
130 ³	The Science of Computing I (Living <i>with</i> Cyber I)	✓	✓	✓	✓
131 ³	The Science of Computing II (Living <i>with</i> Cyber II)	✓	✓	✓	✓
132 ³	The Science of Computing III (Living <i>with</i> Cyber III)	✓	✓	✓	✓
220 ³	Data Structures	✓	✓		✓
222	Systems Programming	✓	✓		
265	Introduction to Digital Design	✓	✓		
310	Theory of Computing	✓		✓	
325	Advanced Data Structures and Algorithms	✓	✓		✓
330	Programming Languages		✓		
345	Operating Systems		✓	✓	
364	Computer Architecture		✓	✓	
403	Software Design and Engineering		✓		
404	Senior Capstone			✓	
430	Database Management Systems		✓		
442	Introduction to Cyber Security			✓	
443/543	Digital Forensics and Cyber Crime	✓			
444 ²	Applied Cryptography			✓	
446 ¹	Access Control Logic and Covert Channels		✓		
447 ²	Wireless and Mobile Security			✓	
448 ¹	Reverse Engineering		✓		
450	Computer Networks	✓	✓		
452/552	Distributed and Cloud Computing	✓			
454/554	Advanced Computer Networks			✓	
470	Computer Graphics		✓		
475	Artificial Intelligence	✓			
493/579	Data Mining and Knowledge Discovery	✓			
498/580	Advanced Data Mining, Fusion, and Applications			✓	
520	Advanced Analysis of Algorithms and Complexity		✓		
521	Advanced Computer Architectures			✓	
532	Advanced Topics in Software Engineering	✓			

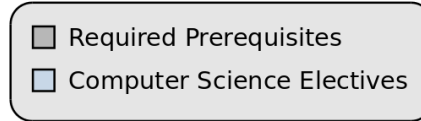
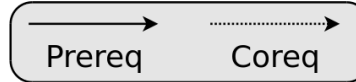
Legend	
	Core courses
	Electives
	Graduate courses
✓	New offerings
✓	Possible offerings

1. CSC 446 and 448 rotate every other year.
2. CSC 444 and 447 rotate every other year.
3. Anticipated honors section(s).





Rev: 2015-01-29



- CSC442 Intro to Cyber Security
- CSC443 Digital Forensics and Cyber Crime
- CSC444 Applied Cryptography
- CSC446 Access Control Logic and Covert Channels
- CSC447 Wireless and Mobile Security
- CSC448 Reverse Engineering
- CSC450 Computer Networks
- CSC452 Distributed and Cloud Computing
- CSC454 Advanced Computer Networks
- CSC470 Computer Graphics
- CSC475 Artificial Intelligence
- CSC493 Data Mining and Knowledge Discovery
- CSC498 Advanced Data Mining, Fusion, & Applications

CYBER SECURITY CONCENTRATION					
Course	Name		Cr	Grade	Prerequisites
CSC 442	Introduction to Cyber Security	Sp	3		CSC 220 and consent of instructor
CSC 450	Computer Networks	W	3		CSC 325 or consent of instructor
Two of the following:			6		
CSC 443	Digital Forensics and Cyber Crime	F			CSC 442 or consent of instructor
CSC 444	Applied Cryptography	Sp			CSC 442 or consent of instructor
CSC 446	Access Control Logic and Covert Channels	W			CSC 442 and MATH 311 or consent of instructor
CSC 447	Wireless and Mobile Security	Sp			CSC 442 or consent of instructor
CSC 448	Reverse Engineering	F			CSC 442 or consent of instructor
CSC 452	Distributed and Cloud Computing	F			CSC 345 or consent of instructor
CSC 454	Advanced Computer Networks	Sp			CSC 450 or consent of instructor
CSC 475	Artificial Intelligence	F			CSC 325 or consent of instructor
MATH 308	Introduction to Linear Algebra	W,Sp			MATH 243 or MATH 311
Total			12		

GRAPHICS AND GAME DESIGN CONCENTRATION					
Course	Name		Cr	Grade	Prerequisites
CSC 470	Computer Graphics	W	3		CSC 325 or consent of instructor
CSC 475	Artificial Intelligence	F	3		CSC 325 or consent of instructor
ART 464	Advanced Communication Media	F,Sp	3		Consent of instructor
MATH 308	Introduction to Linear Algebra	W,Sp	3		MATH 243 or MATH 311
Total			12		

CLOUD COMPUTING AND BIG DATA CONCENTRATION					
Course	Name		Cr	Grade	Prerequisites
CSC 452	Distributed and Cloud Computing	F	3		CSC 345 or consent of instructor
CSC 493	Data Mining and Knowledge Discovery	F	3		CSC 325 or consent of instructor
CSC 498	Advanced Data Mining, Fusion, and Applications	Sp	3		CSC 325 or consent of instructor
One of the following:			3		
CSC 450	Computer Networks	W			CSC 325 or consent of instructor
CSC 475	Artificial Intelligence	F			CSC 325 or consent of instructor
Total			12		

COMPUTER ENGINEERING CONCENTRATION (NOT YET OFFICIAL)					
Course	Name		Cr	Grade	Prerequisites
ENGR 221	Electrical Engineering and Circuits I		3		ENGR 122 (we substitute CSC 132), MATH 242, PHYS 201
ELEN 242	Introduction to Microprocessors	F,W	3		MATH 242
ELEN 333	Introduction to Digital Design	W,Sp	3		ELEN 242
ELEN 423	Embedded Systems	F	3		ELEN 333
Total			12		