

Computer Science (CS) Curriculum Map (effective Fall 2015 and after)

The curriculum map provides insight and direction for students to graduate in four years. With the assistance of a student's academic advisor and department chairperson, the map will provide a guide between what should be taken term by term and where the student is with respect to grades received in courses. Milestones are noted on the map and serve as hints regarding what courses and/or activities must be completed that term. Please note that every term does not have a milestone. Prerequisites are also noted providing the student and his/her advisor a true indication of where the student falls within the curriculum. In this particular document, key prerequisites are listed that can prevent a student from moving along in the curriculum if not met. Also, note that the Department of Computer and Information Sciences (CIS) only considers the grade of "C" or higher as meeting the prerequisite. A grade of "C" or better is required in each course taken for credit for a major or a minor in computer science.

Students completing any of the computing programs will be prepared for employment in government and industry, and for graduate studies in a computing-related discipline.

CIS Computer Science Curriculum Guide		Milestone and/or Prerequisite
Term 1	Credits	Term 1 Milestones and/or Prerequisites
BSC 1005 Biological Science w/ Lab*	4	
ENC 1101 Communicative Skills I	3	
SPC 2608 Public Speaking	3	*May select another approved laboratory science course
MAC 2311 Calculus I	4	to satisfy General Education and major requirements
General Elective	3	
<i>Total Term 1 Credits</i>	17	
Term 2	Credits	Term 2 Milestones and/or Prerequisites
AFA 3104 The African-American Experience	3	Must have completed MAC 1105
ENC 1102 Communicative Skills II	3	Must complete COP 3014C
COP 3014C Fundamentals of Programming	4	
MAC 2312 Calculus II	4	
SLS 1101 First Year Experience – College Transition	2	
<i>Total Term 2 Credits</i>	16	
Term 3	Credits	Term 3 Milestones and/or Prerequisites
Social Science Elective	3	Must have completed COP 3014C and MAC 2311
COT 3100 Discrete Structures I	3	Must complete COT 3100 and COP 3330
MAC 3313 Calculus III	5	
COP 3330 Introduction to Object-Oriented Programming	3	
<i>Total Term 3 Credits</i>	14	
Term 4	Credits	Term 4 Milestones and/or Prerequisites
COP 3530 Program, File and Data Structures	3	Must have completed COP 3330 and COT 3100
General Elective	3	Must complete COT 3101
COT 3101 Discrete Structures II*	3	*COT 3101 is offered spring only
General Elective	3	
Humanities Elective	3	
<i>Total Term 4 Credits</i>	15	

Term 5	Credits	Term 5 Milestones and/or Prerequisites
CDA 3101C Comp Concepts & Org	3	Must have completed COT 3101
CIS 4250 Computer Ethics & Professional Responsibility	3	Must complete CDA 3101C
PHY 2048 General Physics I	4	*Approved Math Courses:
PHY 2048L General Physics I Lab	1	MAD3401, MAS3105, STA2023
Approved Math Course*	3	#COT 4210 is offered fall only
COT 4210 Foundations of Computer Science#	3	
<i>Total Term 5 Credits</i>	17	
Term 6	Credits	Term 6 Milestones and/or Prerequisites
CDA 4102 Computer Architecture*	3	Must have completed CDA 3101C
CNT 4504 Data Comm. & Organizational Networks	3	Must complete COP 3710
PHY 2049 General Physics II	4	*CDA 4102 is offered spring only
PHY 2049 General Physics II Lab	1	
Humanities Elective	3	
COP 3710 Database Management Systems	3	
<i>Total Term 6 Credits</i>	17	
Term 7	Credits	Term 7 Milestones and/or Prerequisites
CIS 4301 Info Sys Design & Development	3	Must have completed COP 3530 and COP 3710
COP3060 Concepts in Advanced Application Development	3	*COP 4020 is offered fall only
COP 4020 Programming Languages*	3	#Must be an upper division CIS course that is not
Major Elective#	3	required by degree program and does not have the
		CGS prefix. See advisor for list of approved major
		electives.
		Must apply for graduation in the 1 st 2 weeks
<i>Total Term 7 Credits</i>	12	
Term 8	Credits	Term 8 Milestones and/or Prerequisites
CIS 4910 Information Systems Development Project	3	Must have completed CIS 4301 and COP 3060
COP 3610 Operating Systems@	3	@COP 3610 is offered spring only
Approved Math Course*	3	*Approved Math Courses:
Major Elective#	3	MAD3401, MAS3105, STA2023
		#Must be an upper division CIS course that is not
		required by degree program and does not have the
		CGS prefix. See advisor for list of approved major
		electives.
		Must complete department exit survey
<i>Total Term 8 Credits</i>	12	
Total Credits	120	