

2013-2014 Blended BS + MS in Computer Science MAJOR ACADEMIC PLAN (MAP)

Major: Computer Science (first three years) Blended MS+BS (last two years)

Undergraduate Major Units: **90**Graduate Major Units: **30**

First Semester		Second Semester		Comments
CSCI 111 Programming and Algorithms I	4	CSCI 217 Foundations of Computing (Sp) [*2]	3	NOTE: C- or higher is required in all CINS and CSCI courses used for the major. [*1] GE Area A courses must be completed with a C- or higher. [*2] Substitutes for GE Area A3.
MATH 120 Analytic Geometry and Calculus (GE Area A4) [*1]	4	MATH 121 Analytic Geometry and Calculus	4	
ENGL 130 Academic Writing (GE Area A2) [*1]	3	NSCI 102 Intro to Living Systems (GE Area B2)	3	
POLS 155 American Government	3	GE Area A1 [*1]	3	
		HIST 130 United States History	3	
TOTAL	14	TOTAL	16	

Third Semester		Fourth Semester		Comments
CSCI 211 Programming and Algorithms II	4	CSCI 221 Assembly Language Programming	3	[*3] Make sure to meet Diversity Requirements (US Diversity, Global Cultures) with GE courses. [*4] C- or higher is required for the WP course.
PHYS 204A Mechanics (GE Area B1)	4	PHYS 204B Electricity and Magnetism	4	
GE Area C1 [*3]	3	GE Area C2 [*3]	3	
GE Area D1 [*3]	3	GE Area D2 [*3]	3	
		GE Area E	3	
TOTAL	14	TOTAL	16	

Fifth Semester		Sixth Semester		Comments
CSCI 346 Intro to Computer Netwks/Mgmt (Fa)	3	CSCI 340 Operating Systems (Sp)	4	[*5] Substitutes for UD Pathway Social Science requirement. [*6] Substitutes for UD Pathway Natural Science requirement.
CSCI 311 Algorithms and Data Structures	4	CSCI 515 Compiler Design (Sp)	3	
EECE 320 System Architecture and Performance (Fa)	3	CINS 370 Introduction to Databases (Sp)	3	
CSCI 301 Computer's Impact on Society [*4][*5]	3	MATH 314 Prob & Stat for Science & Tech (Sp)	4	
GE UD Pathway Humanities	3			
TOTAL	16	TOTAL	14	Apply to BMS program by May 15.

Seventh Semester		Eighth Semester		Comments
CSCI 430 Software Engineering (Fa)	3	CSCI 551 Numerical Methods & Parallel Prog (Sp) [*6]	4	[*7] Select upper-division CSCI or CINS courses, and/or upper-division Math courses that meet a requirement for the Minor in Mathematics. A maximum of 3 units may be taken for credit/no credit grading.
CINS 465 Web Programming Fundamentals (Fa)	3	CSCI 431 Software Engineering Tools (Sp)	3	
CSCI 580 Artificial Intelligence (Fa)	3	CSCI 490 CSCI Capstone	3	
CSCI 511 Object-Oriented Programming (Fa) [*8]	3	CSCI 550 Theory of Computing (Sp)	3	
CS/Math Elective [*7]	2	CINS 448 Computer Security (Sp)	3	
TOTAL	14	TOTAL	16	Apply to graduate by May 15.
GE - 48 units, Major - 90 units – 18 units of required courses also satisfy GE requirements.				120 units required for the BS degree.

Ninth Semester		Tenth Semester		Comments
CSCI 620 Computer Architecture (Fa)	3	CSCI 650 Design and Analysis of Algorithms (Sp)	3	[*8] Prerequisite for CSCI 611. Note: The BS and the MS degrees are awarded simultaneously. If the MS cannot be completed, the BS can be awarded if all requirements are met.
CSCI 640 Operating Systems (Fa)	3	CSCI 611 Distributed Computing (Sp)	3	
Area Elective 1	3	CSCI 630 Software Engineering (Sp)	3	
Area Elective 2	3	CSCI Elective	3	
Area Elective 3	3	Culminating Activity 693 or 699P or 699T	3	
TOTAL	15	TOTAL	15	150 units required for BS + MS.