

**THE IVAN G. SEIDENBERG SCHOOL OF COMPUTER SCIENCE
AND INFORMATION SYSTEMS**

Combined BA in Computer Science/MS in Computer Science

	<u>Fall</u>	<u>Spring</u>	
Year 1	CS 121 (4) MAT 137 (4) ENG 110 (3) AOK (3) UNV 101 (1)	CS 122 (4) MAT 131 (4) ENG 120 (4) AOK (3) AOK (3)	33
Year 2	CS 241 (4) MAT 132 (4) CS 271 (2) PHY 109 (4) Core Requirement – Language 1 (3)	CS 242 (4) MAT 234 (4) CS 232 (4) COM 200 (3) Core Requirement – Language II (3)	34
Year 3	AOK (3) CS UG Elective (4) AOK (3) ENG 201 (3) Free Elective (1)	CS 488 (4) AOK (3) Free Elective* (1) I & E Requirement (3) CS UG Elective (4)	30
Year 4	CS 604 (4) CS UG Elective (4) I & E Requirement (3) Free Elective (3) Free Elective (3)	CS 612 (4) CS Grad Elective (3) I & E Requirement (3) Free Elective (3)	30
Year 5	CS 615/CS 693/CS 691 (4) CS Grad Elective (3) CS Grad Elective (3) CS Grad Elective (3)	CS 616/CS 694/CS Grad Elective (4) CS Grad Elective (3) CS Grad Elective (3) CS Grad Elective (3)	26
		TOTAL CREDITS	153

COMBINED DEGREE CURRICULUM: BA IN COMPUTER SCIENCE/ MS IN COMPUTER SCIENCE

Requirements:

Course	Credits
Required Undergraduate University Core (60 credits)	40 - 48*
Required Undergraduate Courses (26 credits)	
CS121 Computer Programming I	4
CS122 Computer Programming II	4
CS232 Computer Organization	4
CS241 Data Structures and Algorithms I	4
CS242 Data Structures and Algorithms II	4
CS271 Fundamentals of the UNIX O/S	2
CS488 Computer Networks and the Internet	4
Required Mathematics Courses (16 credits)	
MAT137 Introduction to Discrete Mathematics	4
MAT131 Calculus I	4
MAT132 Calculus II	4
MAT234 Introduction to Prob. & Stat. Analysis	4
Required Physics Course (4 credits)	
PHY109 Digital Electronics	4
Advanced Undergraduate CS Electives (12 credits)	12
Free Undergraduate Electives (10 - 18 credits)	10 - 18
Required Graduate Courses (16 credits)	
CS604 Computer System and Concepts	4
CS612 Concepts and Structures in Internet Programming	4
CS615 Software Engineering Seminar I CS 693 Thesis I CS 691 Computer Science Project	4
CS616 Software Engineering Seminar II CS 694 Thesis II CS Grad Elective	4
Graduate CS Electives (21 credits)	
Students can take any CS, IS, IT course as an elective, with written approval from the chair.	21
Total Credits	153

*12 - 20 credits of Core course work depending on the student's individual situation are part of the BA in Computer Science requirements as indicated on the attached worksheet.