

BA/MBA COMPUTER SCIENCE

Course Guide for students starting CS prior to Fall 2016

The BA/MBA in Computer Science has been deactivated and is no longer accepting new applicants

First Year

Fall Semester	Credits	Spring Semester	Credits
MTH 121 or 141 Calculus I ^	4	MTH 122 or 142 Calculus II ^	4
CSE 115 Intro to CS for Majors I	4	CSE 116 Intro to CS for Majors II	4
ENG 101 or 201 Writing **	3	CSE 191 Intro to Discrete Structures	4
General Education %	3	ENG 201 Writing 2 or Humanities **	3
UBE 101 (recommended)	1	General Education %	3
Total Credits		Total Credits	
15		18	
Library Skills *			

Second Year

CSE 241 Digital Systems	4	One of CSE 305, CSE 321, CSE 331, CSE 341, or CSE 396 ^	4
CSE 250 Data Structures	4	One science sequence course ***	4-5
One science sequence course ***	4	General Education %	3
General Education %	3	General Education %	3
Total Credits		Total Credits	
15		14-15	

Third Year

One of CSE 305, CSE 321, CSE 331, CSE 341, or CSE 396 ^	4	One 300 or 400-level required CSE course ^^	4
One 300 or 400-level required CSE course ^^	4	One 300 or 400-level required CSE course ^^	4
General Education %	3	General Education %	3
Total Credits		Total Credits	
11		11	
MBA applications are due by May 1 of third year			

Fourth Year

First Semester MBA Core @	15	Second Semester MBA Core @	10
Total Credits		Total Credits	
15		10	

Fifth Year

MBA Electives - may include internship @	12	Fourth Semester MBA Core @	2
Total Credits		Total Credits	
12		11	
MBA Electives @			
Total Credits			
11			

Pr. Indicates a prerequisite for the course. Not all prerequisites are noted.

* Library Skills Test is required for all students entering UB in Fall of 1997 and thereafter.

See the Library Skills website at <http://ublib.buffalo.edu/libraries/units/ugl> or go to room 107 in UGL.

** ENG 101 and ENG 201 and Humanities as determined by placement: SAT/ACT, AP, TOEFL, or transfer credit. SAT verbal 400-570 = ENG 101 and then 201, 580-720 = ENG 201 and Humanities (%), 730-800 = Exempt from Writing Skills but need Humanities (%).

*** The CS degree requires any two-course science and engineering sequence (from Biology, Chemistry, Geology, Physics, or any department in the School of Engineering and Applied Sciences, except CSE). Students are advised to select a two course science sequence with lab that will also satisfy the natural sciences general education requirement.

^ One of the following: MTH 121/MTH 122 Survey of Calculus & Its Applications I & II; MTH 131 Mathematical Analysis for Management; or MTH 141/142 College Calculus I & II

^^ Two of the following are required for the CS degree: CSE 305 Intro to Programming Languages; CSE 321 Real Time and Embedded Operating Systems; CSE 331 Intro to Algorithm Analysis and Design; CSE 341 Computer Organization; or CSE 396 Intro to the Theory of Computation

^^^ Three CSE courses at the 300 level or above with minimum two at the 400 level are required for the CS degree (excludes CSE 492/494 - CSE 499)

% World Civilizations I and II, American Pluralism or approved cognate, Social & Behavioral Science, Arts, Humanities (if not required to complete ENG 101-201 sequence), and Language Requirement.

@ Contact the School of Management for advisement on core MBA requirements and electives.

As part of this combined degree program, MBA requirements satisfy the five external concentration courses normally required for the BA in Computer Science and MGQ 608 Statistical Analysis for Managers and MGQ 609 Analytics for Managers satisfy the probability/statistics requirement.

