

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING  
and  
SCHOOL OF MANAGEMENT  
University at Buffalo

**JOINT FIVE-YEAR PROGRAM  
BA (Computer Science)/MBA**

The Department of Computer Science and Engineering and the School of Management offer a five-year program leading to a joint Bachelors degree in computer science and Masters degree in business administration. This program reduces by one year the usual pattern of a four-year undergraduate degree and a two-year MBA program. At completion, you will be awarded a BA diploma and an MBA diploma, with a transcript notation that these degrees were awarded as part of a combined degree program.

Students wishing to pursue the dual program should take the GMAT and apply to the MBA program early during their junior year. Admissions will be limited to students who can satisfy the entrance requirements for the MBA program.

Each candidate must meet all the degree requirements of each program, except for the reduction in the total credit hours required for the usual pattern of a four-year BA (computer science) degree and a two-year MBA degree.

Applications for the joint five-year program can be found on the web at [www.mgt.buffalo.edu](http://www.mgt.buffalo.edu). For additional information or to set up an appointment, please contact:

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(716)645-7853  
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or

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# BA/MBA COMPUTER SCIENCE

Course Guide for students starting MBA classes Fall 2006 or later

## 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 102 Writing **	3	ENG 201 Adv. Writing or Humanities **	3
General Education %	3	General Education %	3
UBE 101 (recommended)	1	General Education %	3
Total Credits		Total Credits	
15		17	
Library Skills *			

## Second Year

CSE 191 Intro to Discrete Systems	4	CSE 250 Data Structures	4
CSE 241 Digital Systems	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 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
Total Credits		Total Credits	
8		11	
MBA applications are due by May 1 of third year			

## Fourth Year

MGA 604 Financial Analysis & Reporting	3	MGO 641 Strategic Management	3
MGB 601 Behav & Organiz Concepts	3	MGM 625 Marketing Management	3
MGE 601 Economics for Managers	3	MGO 630 Operations & Service Mgt	3
MGT 601 Ethics & Corporate Governance	1.5	MGF 631 Financial Management	1.5
MGF 631 Financial Management	1.5	MGG 635 Business Communications	1.5
MGQ 606 Probability & Statistics \$	3	Total Credits	
Total Credits		12	
15			

## Fifth Year

MBA Practicum @	3	MGA 609 Management Accounting	3
MBA Elective @	3	MBA Elective @	3
MBA Elective @	3	MBA Elective @	3
MBA Elective @	3	MBA Elective @	3
One 300 or 400-level required CSE course ^^	4	Total Credits	
Total Credits		12	
16			

- 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 or ENG 102 and Humanities (Writing Skills Requirement) as determined by placement: SAT/ACT, AP, TOEFL, or transfer credit. SAT verbal 400-570 = ENG 101 and then 201, 580-720 = ENG 102 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 494 - CSE 499)
- \$ MGQ 606 satisfies a requirement in the School of Management as well as the probability/statistics requirement in computer science
- % 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.

The five external concentration courses normally required for the BA in Computer Science are satisfied by the MBA core when the requirements for the combined degree are fulfilled.