BS/MBA CHEMICAL ENGINEERING

Course Guide for students starting CE prior to Fall 2016
Students entering Fall 2016 or later should refer to their Undergraduate Catalog

= 11.0		irst Year	
Fall Semester	Credit Hrs	Spring Semester	Credit Hrs
ITH 141 Calculus I	4	MTH 142 Calculus II	4
HE 107 Chemistry I ^	4	PHY 107 Physics I	4
AS 140 Engineering Principles	3	CHE 108 Chemistry II ^	4
NG 101 or 201 Writing **	3	EAS 230 Engineering Computations	3
eneral Education %	3	EAS 202 Engineering Impact on Society ^^	1
Total Credits ibrary Skills *	17	Total Credits	16
istary Grand	Sec	cond Year	
TH 241 Calculus III	4	MTH 306 Differ. Equations	4
HY 108 Physics II	4	CHE 204 Organic Chemistry II or BIO 205	3
HY 158 Physics II Lab	1	BIO 201 Cell Biology	4
HE 201 Organic Chemistry I	5	CE 304 CE Thermodynamics	4
E 212 Fundamental Principles of CE	4	ENG 201 Writing 2 or Humanities **	3
Total Credits	18	Total Credits	18
	Th	nird Year	
HE 334 Phys. Chem. II	3	CE 433 Materials Science & Engienering	3
E 329 Chemical Reaction Engineering	3	CE 318 Transport Processes II	4
E 317 Transport Processes I	4	CE 328 Chem. Engr. Lab II	2
E 327 Chem. Egnr. Lab I	4	CE 407 Separations	3
E 341 Applied CE Math	3	General Education %	3
Total Credits	17	General Education %	3
		Total Credits	18
MBA applications are due by May 1 of third		***************************************	
		Summer	
		Education Classes %	
irst Semester MBA Core @	1	urth Year Second Semester MBA Core @	10
EE 434 Chemical Systems & Control	15 3	CE Technical Elective ***	10
Total Credits	18	CE Technical Elective CE Technical Elective ***	3
Total Credits	10	Total Credits	16
		. stat Ground	. 5
MBA Electives - may include internship @	12	Fourth Semester MBA Core @	2
11, 11, 11, 11, 11, 11, 11, 11, 11, 11,	4	MBA Electives @	9
E 404 CE Product Design			
CE 404 CE Product Design CE 427 Che. Egnr. Lab III	2	ICE 408 Chem. Egnr. Plant Design	14
CE 404 CE Product Design CE 427 Che. Egnr. Lab III Total Credits	2 18	CE 408 Chem. Egnr. Plant Design CE 428 Chem Engr. Lab IV	4 2

- 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 40 0-570 =
- ENG 101 and then 201, 580-720 = ENG 201 and Humanities (%), 730-800 = Exempt from Writing Skills but need Humanities (%). Please see department manual or website for details on CE technical electives and general technical electives. The 200+ technical elective requirement for the standard BS in chemical engineering is not required when students complete this combined
- CHE 101-102 OR CHE 105-106 may be substituted for CHE 107-108.
 EAS 202 Engineering Impact on Society is required for students entering UB Engineering as freshman beginning with the fall 2011
- catalog year.
 World Civilizations I and II, American Pluralism or approved cognate, Social & Behavioral Science, Arts, and Humanities (if not required to complete ENG 101-201 sequence).
 Contact the School of Management for advisement on core MBA requirements and electives