

BS/MBA CIVIL ENGINEERING

Course Guide for students starting CIE prior to Fall 2016

[Students entering Fall 2016 or later should refer to their Undergraduate Catalog](#)

First Year

Fall Semester	Credit Hrs	Spring Semester	Credit Hrs.
MTH 141 Calculus I	4	MTH 142 Calculus II	4
CHE 107 Chemistry I ^	4	PHY 107 Physics I	4
EAS 140 Engineering Principles	3	CHE 108 Chemistry II ^	4
ENG 101 or 201 Writing **	3	MAE 177 Intro to Eng Drawing/CAD	2
General Education %	3	EAS 202 Engineering Impact on Society ^^	1
Total Credits	17	ENG 201 Writing 2 or Humanities **	3
		Total Credits	18

Library Skills *

Second Year

MTH 241 Calculus III	4	MTH 306 Differ. Equations	4
PHY 108 Physics II	4	EAS 208 Dynamics	3
PHY 158 Physics II Lab	1	EAS 209 Mech of Solids	3
EAS 207 Statics	3	General Education %	3
EAS 230 Engineering Computations	3	Engineering Elective: choose from EE 200, MAE 204, EE 202, IE 320	3-4
General Education %	3	Total Credits	16-17
Total Credits	18-19		

Third Year

CIE 323 Structures Engr.	3	CIE 324 Structures II	3
CIE 354 Fluid Mech.	3	CIE 334 Soil Mechanics	3
CIE 327 CIE Materials	3	CIE 303 Geodesy, GPS, & GIS	3
CIE 340 Environmental Eng	3	CIE 343 Hydraulic Engr.	3
CIE 308 Engineering Stats	3	CIE 362 Civil Engineering Lab II	2
CIE 361 Civil Engineering Lab I	2	General Education %	3
Total Credits	17	Total Credits	17

MBA applications are due by May 1 of third year

Summer

1 General Education Class %

Fourth Year

First Semester MBA Core @	15	Second Semester MBA Core @	10
CIE 435 Foundation Engr.	3	MBA Elective @	3
Total Credits	18	CIE Technical Elective ***	3
		Total Credits	16

Fifth Year

MBA Electives - may include internship @	6	Fourth Semester MBA Core @	2
CIE 415 Professional Practice Issues	3	MBA Electives @	12
CIE 439 Transportation Systems	3	CIE 416 Civil Engineering Capstone Design	3
CIE Technical Elective (with design) ***	3	Total Credits	17
Total Credits	15		

- Pr. Indicates a prerequisite for the course. Not all prerequisites are noted.
- * Library Skills Workbook 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 (%).
 - *** One technical elective must be selected from CIE 428, 429, 430, 438 or 442. The remaining TE must be chosen from an approved list available in the undergraduate catalog. As part of this combined degree program MBA requirements satisfy the two additional technical electives normally required for the BS in civil engineering and MGQ 608 Statistical Analysis for Managers and MGQ 609 Analytics for Managers satisfy the applied math elective.
 - ^ 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. CIE 101 is no longer required.
 - % 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.