

132-hour Curriculum

Graduation Date:

Advisor:

I - 14 Hrs.	II - 18 Hrs.	III - 16 Hrs.	IV - 16 Hrs.	V - 18 Hrs.	VI - 16 Hrs.	VII - 18 Hrs.	VIII - 16 Hrs.
CHEM 102 (3)	PHYS 211 (4)	PHYS 212 (4)	PHYS 213 (2)	MATH 415 (3)	ECE 205 (3)	FREE E. (3)	FREE E. (3)
CHEM 103 (1)	MATH 231 (3)	MATH 241 (4)	PHYS 214 (2)	IE 310 (4) F	ECE 206 (1)	OR E. (3)	ME & IE E. (3)
MATH 221 (4)	CHEM 104 (3)	CS 101 (3)	MATH 285 (3)	IE 340 (4)	IE 360 (3) SP	IE 430 (3) F	TECH E. (2)
GE 101 (3) *	CHEM 105 (1)	TAM 210 (2)	IE 300 (3)	HSS E. #4 (3)	IE 361 (3) SP	HUM FAC E. (3)	IE 497 IE **
ENG 100 (0)	RHET 105 (4) *	TAM 251 (3)	TAM 251 (3)	ME 330 (4)	IE 330 (3) SP	MFG E. (3)	IE 470 (3) **
HSS E. #1	HSS E. #2 (3)	HSS E. #3 (3)	TAM 212 (3)		ME 350 (3)		
ECON 10X (3)					IE 390 (0) SP	HSS E. #5	HSS E. #6 (3)

Summary of Free Electives (6 Hrs.) course (credit status)	Human Factors Elective (3 Hrs.)	Manufacturing Elective (3 Hrs.)	Advanced Composition (3 Hrs.) course (credit status)	Cultural Studies (2 Courses) course (credit status)	***Unreconciled*** course (credit status)
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ME/IE Elective (3 Hrs.)	Technical Elective (4 Hrs.)	Campus Social and Behavioral Sciences (6 Hrs.) course (credit status S)	Campus Humanities & Arts (6 Hrs.) course (credit status H)	KEY Status Codes CC = UIUC Credit TR = Transfer Credit IP = In Progress	Prerequisite (Credit) → Credit OR Concurrent Registration →
Operations Research Elective (3 Hrs.)					

NOTES *Rhet 105 or GE 101 to be taken in Fall or Spring as authorized. **IE 470(3) + GE 497IE(2) to be taken in Fall or Spring based on student's EVEN or ODD UIN number. **GE 497IE(2) counts as Tech Elective.	OTHER Report Any Discrepancies to 209 TB ASAP	Other HSS Courses course (credit status H/S)	Other Abbreviations HSS = Humanities and Social Sciences H = Humanities Course S = Social Sciences Course E = elective	COURSE (HRS.) credit status course taken COURSE (HRS.) credit status course not taken SP = offered spring semester F = offered fall semester
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**Industrial & Enterprise Systems Engineering
Industrial Engineering Undergraduate Curriculum
(132 credit hours)**

(Effective for first-year students entering after Fall 2006 whose UIN ends in an odd number)

Semester 1

CHEM 102—General Chemistry I	3
CHEM 103—General Chemistry Lab I	1
ENG 100—Engineering Orientation	0
GE 101—Engineering Graphics & Design	3
MATH 221—Calculus I	4
Elective in Social Sciences or Humanities ¹	<u>3</u>
	14

Semester 3

CS 101—Intro Computing: Engrg & Sci	3
MATH 241—Calculus III	4
PHYS 212—University Physics: Elec & Mag	4
TAM 210—Introduction to Statics	2
Elective in Social Sciences or Humanities ¹	<u>3</u>
	16

Semester 5

IE 310—Operations Research	4
IE 340—Human Factors	4
ME 330—Engineering Materials	4
MATH 415—Applied Linear Algebra	3
Elective in Social Sciences or Humanities ¹	<u>3</u>
	18

Semester 7

IE 430—Economic Found of Quality Syst	3
Manufacturing Elective ³	3
Human Factors Elective ²	3
Operations Research Elective ⁴	3
Elective in Social Sciences or Humanities ¹	3
Free Elective	<u>3</u>
	18

Semester 2

CHEM 104—General Chemistry II	3
CHEM 105—General Chemistry Lab II	1
MATH 231—Calculus II	3
PHYS 211—University Physics: Mechanics	4
RHET 105—Principles of Composition	4
Elective in Social Sciences or Humanities ¹	<u>3</u>
	18

Semester 4

IE 300—Analysis of Data	3
MATH 285—Intro Differential Equations	3
PHYS 213—Univ Physics: Thermal Physics	2
PHYS 214—Univ Physics: Quantum Physics	2
TAM 212—Introductory Dynamics	3
TAM 251—Introductory Solid Mechanics	<u>3</u>
	16

Semester 6

IE 330—Industrial Quality Control	3
IE 360—Facilities Planning and Design	3
IE 361—Production Planning & Control	3
IE 390—Seminar	0
ME 350—Design for Manufacturability	3
ECE 205—Elec & Electronic Circuits	3
ECE 206—Elec & Electronic Circuits Lab	<u>1</u>
	16

Semester 8

IE 470—Senior Engineering Project ⁷	3
ME/IE Elective ⁶	3
Technical Elective ⁵	4
Elective in Social Sciences or Humanities ¹	3
Free Electives	<u>3</u>
	16

- 1 Each student must satisfy the social sciences and humanities requirements of the College of Engineering, including ECON 102 or 103, and satisfy the campus general education requirements for social sciences and humanities. It is highly recommended ECON 102 or 103 be taken prior to the fourth semester.
- 2 Human Factors Elective – 3 hours required. Choose from a departmentally approved list.
- 3 Manufacturing Elective – 3 hours required. Choose from a departmentally approved list.
- 4 Operations Research Elective – 3 hours required. Choose from a departmentally approved list.
- 5 Technical Elective – 4 hours required. Choose from a departmentally approved list.
- 6 ME/IE Elective – 3 hours required. Choose from a departmentally approved list.
- 7 Student may petition to change the semester assigned to enroll