

SEMESTER COURSE SCHEDULE
UIC Chemical Engineering

FRESHMAN

Total Hours = 15

Total Hours = 16

ENGL 160	3	English Composition I
MATH 180	4	Calculus I
CHEM 122	4	General Chemistry I Lecture
CHEM 123	1	General Chemistry I Lab
ENGR 100	0	Engineering Orientation
HUM/SOC	3	General Education Course

ENGL 161	3	English Composition II
MATH 181	4	Calculus II
CHEM 124	4	Gen. Chemistry II Lecture
CHEM 125	1	Gen. Chemistry II Lab
PHYS 141	4	Gen. Physics - Mech.

SOPHOMORE

Total Hours = 17

Total Hours = 16

MATH 210	3	Calculus III
CHEM 232	4	Organic Chemistry I
PHYS 142	4	Gen. Physics II-Elec. & Mag
CHE 201 (MATH 181, PHYS 141)	3	Intro to Thermodynamics
CS 109	3	C/C++ Programming for Eng w/ MatLab

MATH 220	3	Differential Equation I
ChE 205 (=CHE 201 & MATH 210)	3	Comput. Methods in ChE
CHE 210 (= CHE 201 & 205)	4	Material & En Balances
CHEM 233	2	Organic Chemistry Lab
CHEM 234	4	Organic Chemistry II

JUNIOR

Total Hours = 16

Total Hours = 18

CHE 311 (CHE 201, 205=CHE 210)**	3	Transport Phenomena
CHE 301 (CHE 201 & 205)	3	ChE Thermodynamics
CHEM 222	4	Analytical Chemistry
ECE 210	3	Electrical Circuit Analysis
HUM/SOC	3	General Education Course

CHE 312 (CHE 311)	3	Transport Phenomena II
CHE 313 (CHE 301)	3	Transport Phenomena III
CHE 321 (CHE 301, 210, MATH 220)	3	Chem. Reaction Eng.
CHEM 342	3	Physical Chemistry I
HUM/SOC	3	General Education Course.
CME 260 (MATH 181)	3	Properties of Materials

SENIOR

Total Hours = 15

Total Hours = 14 or 15

CHE 396 (CHE 312, 313, 321)	4	Senior Design I
CHE 381 (CHE 312)	2	Chemical Eng. Lab I
CHEM 346	3	Physical Chemistry II
HUM/SOC	3	General Education Course
ELECTIVE	3	Outside Major
CHE 499	0	Prof. Development Seminar

CHE 397 (CHE 396)*	3-4	Senior Design II
CHE 341 (CHE 312, 313, 321 & MATH 220)	3	Chemical Process Control
CHE 382 (CHE 381)	2	Chemical Eng. Lab II
CHE ELECTIVE	3	400 Level ChE or Equiv.
HUM/SOC	3	General Education Course

Total Hours in Major = 128

Legend:

- Milestone Courses: Must be taken in the specified semester to be able to graduate in 4 yrs.
- () Prerequisites (=) Concurrent registration (**) Credit of concurrent registration with MATH 220
- (*) Continuing students will take ChE 397 for 3 hours and students entering the degree in Fall 2016 and beyond will take the course for 4 hours.

ENGINEERING COURSES

ENGR. 100	0	Engineering Orientation
CS 109	3	C/C++ Programming for Eng w/ MatLab
ECE 210	3	Elec. Circuit Analysis
CME 260	3	Properties of Materials

ENGLISH

Engl. 160	3	English Composition I
Engl. 161	3	English Composition II

MATHEMATICS

Math 180	4	Calculus I
Math 181	4	Calculus II
Math 210	3	Calculus III
Math 220	3	Intro. to Advanced Math

PHYSICS

Phys 141	4	General Physics I
Phys 142	4	General Physics II

ELECTIVES

Individual & Society	3	
U.S. Society	3	
Creative Arts	3	
Exploring World Cultures	3	
Understanding the Past	3	
Elective Outside Major	3	

CHEMISTRY COURSES

CHEM 122-Lecture, CHEM123-Lab	5	General College Chemistry I
CHEM 124-Lecture, CHEM125-Lab	5	General College Chemistry II
Chem 222	4	Analytical Chemistry
Chem 232	4	Organic Chemistry I
Chem 233	2	Organic Chemistry Lab I
Chem 234	4	Organic Chemistry II
Chem 342	3	Physical Chemistry I
Chem 346	3	Physical Chemistry II

CHEMICAL ENGINEERING SEQUENCE

ChE 201	3	Intro to Thermodynamics
ChE 205	3	ComputMethods in ChE
ChE 210	4	Material & Energy Balances
ChE 301	3	Thermodynamics
ChE 311**	3	Transport Phenomena I
ChE 312	3	Transport Phenomena II
ChE 313	3	Transport Phenomena III
ChE 321	3	Chemical Reaction Eng.
ChE 341	3	Chemical Process Control
ChE 381	2	Chemical Eng. Lab I
ChE 382	2	Chemical Eng. Lab II
ChE 396	4	Senior Design I
ChE 397*	3-4	Senior Design II
ChE 499	0	Prof. Development Seminar
ChE Elective	3	