

OCCC Engineering - Transfer to **OU Chemical Engineering**

Associate in Science Min. 62 Credits

3/24/2016

Year	FIRST SEMESTER	HRS	SECOND SEMESTER	HRS
FRESHMAN	OCCC		OCCC	
	MATH 2104, Calculus and Analytic Geometry I	4	MATH 2214, Calculus and Analytic Geometry II	4
	CHEM 1115, General Chemistry I	5	PHYS 2014, Engineering Physics I	4
	ENGL 1113, English Composition I	3	ENGL 1213, English Composition II	3
	SCL 1001, Success in College Life	1	CHEM 1215, General Chemistry II	5
	ENGR 1113, Introduction to Engineering	3		
	TOTAL CREDIT HOURS	16	TOTAL CREDIT HOURS	16
SUMMER	SUMMER/INTERSESSION/ONLINE			
	PSY 1113, <i>Intro to Psychology (OR)</i>	3		
	SOC 1113, <i>Intro to Sociology</i> <i>Applies to Social Sciences at OU</i>			
	POLSC 1113, American Federal Government	3		
	TOTAL CREDIT HOURS	6		
SOPHOMORE	OCCC		OCCC	
	MATH 2314, Calculus and Analytic Geometry III	4	CHEM 2124, Organic Chemistry II	4
	PHYS 2114, Engineering Physics II	4	CHEM 2122, Organic Chemistry Lab	2
	CHEM 2114, Organic Chemistry I	4	MATH 2413, Ordinary Differential Equations	3
	OU (Concurrent Enrollment)		HUM 1113, <i>Music Appreciation (OR)</i>	3
	•CH E 2033, Chemical Engineering Fundamentals	3	ART 1053, <i>Art Appreciation (OR)</i>	
	*CH E 2002, Intro to Chemical Engineering Computing	2	HUM 2243, <i>Film Studies</i>	
	ENGR 3511, Transfer Students	1	OU (Concurrent Enrollment)	
		CH E 3113, Momentum Heat & Mass Transfer I	3	
	TOTAL CREDIT HOURS	18	TOTAL CREDIT HOURS	15
SUMMER	SUMMER/INTERSESSION/ONLINE			
	GEOG 2603, <i>World Regional Geography (OR)</i>	3		
	HUM 2143, <i>Mythology</i> <i>Applies to Western Civilization Humanity at OU</i>			
	HIST U.S. History Elective	3		
	TOTAL CREDIT HOURS	6		
JUNIOR	OU (Need Prereqs to Enroll)		OU	
	CH E 3123, Momentum Heat & Mass Transfer II	3	CH E 2313, Structures & Properties of Materials	3
	CH E 3473, Chemical Engineering Thermodynamics	3	CH E 3333, Separation Processes	3
	CH E 3723, Numerical Methods for Engr Computation	3	#CH E 3432, Unit Operations Laboratory	2
	CHEM 3423, Physical Chemistry I	3	CH E 4473, Kinetics	3
	CHEM 3421, Physical Chemistry Lab	1	#ENGL 3153, Technical Writing	3
	TOTAL CREDIT HOURS	13	TOTAL CREDIT HOURS	14
SENIOR	OU		OU	
	CH E 4153, Process Dynamics and Control	3	ENGR 2411, Applied Engineering Statics	1
	CH E 4253, Chemical Engineering Design I	3	ENGR 2431, Electrical Circuits	1
	CH E 4262, Chemical Engineering Design Lab	2	ENGR 3431, Electromechanical Systems	1
	§Technical Elective I	3	CH E 4273, Advanced Process Design (Capstone)	3
	†Approved Elective, <i>Core IV: Non-Western Culture</i>	3	§Technical Elective II	3
			#Advanced Chemistry Elective	3
	TOTAL CREDIT HOURS	14	TOTAL CREDIT HOURS	12

Prerequisite Courses required for 1st Semester Junior Year.

*CH E 2002 is Visual Basic & fulfills Computer Literacy Requirement.

#Technical Writing is a corequisite for CH E 3432.

•Chemical Engineering courses are sequential & usually offered only in the semester shown. Note prerequisites.

#Advanced chemistry elective must be preapproved as having significant chemistry content. This elective must be chosen from but is not limited to the following: CHEM 3523, 3653, 4333; CH E 5163, 5243, 5273, 5453, 5673.

†To be chosen from the University-Wide General Education Approved Course List. Three of 12 hours must be upper division.

§One of the Technical Elective I, Technical Elective II, or the Advanced Chemistry elective must be CH E. Prior faculty approval needed.

OCCC Total Hours: 68

OU Total Hours: 62