Transfer Plan: CWI to UI
B.S. DEGREE PROGRAM IN CHEMICAL ENGINEERING – Catalog Year 2022/23
This plan assumes a student completes the Associate of Science degree at CWI before transferring to UI.

	Course Title/Requirement at CWI	COMMENTS	Credits
YEAR 1 FALL @ CWI			
COMM 101	Fundamentals of Oral Communication	COMM 100 is listed in Engr AS Program of Study at CWI	2
CWI 101	Connecting with Ideas	Required course in Engr AS Program of Study at CWI	3
MATH 170	Calculus I		5
PHYS 211	Engineering Physics I		4
PHYS 211L	Engineering Physics I Lab		1
			15
YEAR 1 SPRING @ CWI			
CHEM 111	Principles of Chemistry I		3
CHEM 111L	Principles of Chemistry I Lab		1
ENGL 101	Writing and Rhetoric I		3
ENGR 120	Introduction to Engineering	Sub for ENGR 123	3
ENGR 210	Engineering Mechanics - Statics		3
MATH 175	Calculus II		4
			17
YEAR 2 FALL @ CWI			
ENGL 102	Writing and Rhetoric II		3
MATH 275	Calculus III	Engineering Technical Elective at CWI	4
SCIE 102	Ethics in Science	Meets SBOE SS	3
GEM 5	Humanistic & Artistic Ways of Knowing course	Humanities	3
ENGR 240	Introduction to Electrical Circuits	Engineering Technical Elective at CWI	3
			16
YEAR 2 SPRING @ CWI			
ENGR 290	Engineering Capstone		2
GEM 5	Humanistic & Artistic Ways of Knowing course	Humanities	3
GEM 6	Social and Behavioral Ways of Knowing course	Recommend ECON 201 or ECON 202	3
Global Perspectives	Global Perspectives course	***INT***	3
CHEM 112	Principles of Chemistry II	Engineering Technical Elective at CWI	3
CHEM 112 Lab	Principles of Chemistry II Lab		2
			16
	Course Title/Requirement at UI	**Prerequisites**	**Credits**
YEAR 3 FALL @ UI			
CHEM 277	Organic Chemistry I	CHEM 112/112L	3
CHEM 278	Organic Chemistry I Lab		1
Phys 212	Engineering Physics II	PHYS 211/211L, MATH 175	3
ENGR 335	Engineering Fluid Mechanics	MATH 275 and ENGR 210	3
MATH 310	Ordinary Differential Equations		3
			13
YEAR 3 SPRING @ UI			
CHE 123	Computations in ChE	MATH 143, MATH 170 or higher	2
CHEM 372	Organic Chemistry II	CHEM 277	3
CHEM 374	Organic Chemistry II Lab	CHEM 278; CHEM 372 as co-requisite	1
ENGR 320	Eng. Thermodynamics & Heat Transfer	ENGR 210, MATH 275	3
CHE 220	Programming for Chemical Engineers		3
			14
YEAR 4 FALL @ UI			
CHE 326	Chemical Engineering Thermodynamics	CHE 223, ENGR 320, ENGR 335, MATH 310	3
CHE 340	Transport and Rate Processes I	ENGR 335, MATH 310, CHE 223	4
CHE 491	Senior Seminar	Senior Standing	1
CHEM 305	Physical Chemistry	CHEM 112/112L, MATH 275; co-requisite PHYS 212 or 213	3
CHEM 307	Physical Chemistry Lab	Pre- or co-requisite CHEM 305	1
Elective	Humanities/Social Science: American Diversity	*Not required if Hum/SS satisfied*	(3)
			12(15)
YEAR 4 SPRING @ UI			
CHE 223	Material and Energy Balances	CHEM 112/112 Lab, MATH 175	3
CHE 330	Separation Processes I	CHE 326, CHEM 305	3
CHE 341	Transport and Rate Processes II	CHE 340	4
CHE 423	Reactor Kinetics and Design	CHE 223, MATH 310, CHEM 305	3
			13

YEAR 5 FALL @ UI			
CHE 433	Chemical Engineering Lab I	CHE 330, CHE 341, CHE 423	1
CHE 444	Process Analysis and Control	CHE 223, MATH 310	3
CHE 453	Process Analysis and Design I	CHE 330, CHE 341, CHE 423	3
Elective	UPDV Tech Elective		3
Elective	ChE/BE 390+		3
			13
YEAR 5 SPRING @ UI			
CHE 434	Chemical Engineering Lab II	CHE 330, CHE 341, CHE 423	1
CHE 454	Process Analysis and Design II	CHE 330, CHE 341, CHE 423	3
Elective	UPDV Tech Elective		3
Elective	CHE Elective		3
Elective	Math elective		3
Elective	Humanities/Social Science: American Diversity	*Not required if Hum/SS satisfied*	(3)
			13(16)