

Department of Chemical Engineering
 Chemical Engineering Degree Worksheet
 2015 -2016 Curriculum

Freshman Year					
Course	Name	Hrs	Grade	Semester	Notes
1 st Semester					
CBE 101	Intro Che & Bio Engr	1			
Math 162	Calculus I	4			
Chem 121	General	3			
Chem 123L	General Chem I Lab	1			
2 nd Semester					
Math 163	Calculus II	4			
Phyc 160	General Physics	3			
Chem 122	General	3			
Chem 124L	General Chem II Lab	1			

Sophomore Year					
Course	Name	Hrs	Grade	Semester	Notes
1 st Semester					
CBE 251	Chem Process Calc I	3			
Math 264	Calculus III	4			
Phyc 161	General Physics	3			
Chem 301	Organic I	3			
Chem 303L	Organic Lab I	1			
2 nd Semester					
CBE 253	Chem & Biol Eng Computing	3			
CBE 302	ChE Thermodynamics	3			
Math 316	App Ord Diff Equ	3			

Junior Year					
Course	Name	Hrs	Grade	Semester	Notes
1 st Semester					
CBE 311	Intro Transport Phenomena	3			
CBE 317	Num Meth for Chem & Bio	2			
CBE 318L	Chem Engr Lab I	1			
CBE 361	Biomolecular Engineering	3			
2 nd Semester					
CBE 312	Unit Operations	3			

CBE 321	Mass Transfer	3			
CBE 319L	Chem Enr Lab II	1			
ENG 301	Dynamics	1			
ENG 302	Electronics for Non Majors	1			
CBE 371	Intro Materials Engr	3			
Senior Year					
Course	Name	Hrs	Grade	Semester	Notes
1 st Semester					
CBE 418L	Chem Engr Lab III	1			
CBE 454	Proc Dynamics & Control	3			
CBE 461	Chem Reactor Engineering	3			
CBE 486	Intr Statistics & Design of Ex	2			
CBE 493L	Chem Engr Design	3			
2 nd Semester					
CBE 419L	Chem Engr Lab IV	1			
CBE 451	Senior Seminar	1			
CBE 494L	Adv ChE Design	3			
UNM Core Curriculum					
Requirement	Course	Hrs	Grade	Semester	Notes
Core Writing and Speaking	Engl 219	3			Required
Core Writing and Speaking	Engl 101	3			Required
Core Writing and Speaking	Engl 102	3			Required
Social and Behavioral Sciences	Econ 105	3			Required
Social and Behavioral Sciences		3			
SOE Approved Social & Behavioral Sciences Electives Include:					
<input type="checkbox"/> American Studies 182, 185; Anthropology 101, 130; CRP 181, Economics 105, 106; ENGR-F 200; Geography 102; Linguistics 101; Political Science 110, 200, 220, 240; Psychology 105; Sociology 101					
Core Humanities		3			
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SOE Approved Humanities Electives Include:					
<input type="checkbox"/> American Studies 186; Classics 107, 204, 205; Comparative Literature 222, 224; English 150, 292, 293; Modern Languages 101; History 101L, 102L, 161, 162; Philosophy 101, 201, 202; Religious Studies 107, 263, 264; Honors 100, 200 level					
Core Second Language		3			
SOE Approved Second Language Requirements:					
<input type="checkbox"/> Any lower division non-English course in Linguistics, Spanish, Portuguese, or Foreign Languages & Literatures					
Core Fine Arts Elective		3			
SOE Approved Fine Arts Electives:					
<input type="checkbox"/> Arch 121; Art History 101, 201, 202; Dance 105; Fine Arts 284, Media Arts 210; Music 139, 142; Theatre 122; 3 credit studio in Art, Music, Theatre, Dance, Media Arts. NOTE: Three 1 credit studio courses DO NOT satisfy the requirement.					