

3/2 MU Chemistry (BS) / WUSL Chemical Engineering Major

Millikin University – Chemistry				
Fall Semester		1 st year	Spring Semester	
CH 121/151 General Chemistry with Lab	4		CH 224/152 General Chemistry II with Lab	4
<i>MA 140 Calculus I</i>	4		MA 240 Calculus II	4
BI 105 Ecology and Evolution	3		MA 135 Computer Science I	3
IN 140 University Seminar	3		IN 151 CRWRR II	3
IN 150 CRWRR I	3		Oral Communication Elective	3
	17			17
		2 nd year		
CH 301/251 Organic Chemistry I with Lab	4		<i>CH 302/252 Organic Chemistry II with Lab</i>	4
<i>CH 232/253 Analytical Chemistry with Lab</i>	4		<i>MA 303 Linear Algebra</i>	3
MA 340 Calculus III	3		PY 152/172 University Physics II with Lab	4
PY 151/171 University Physics I with Lab	4		IN 251 US Structural Studies	3
IN 250 US Cultural Studies	3		International Cultures Elective	3
	18			17
		3 rd year		
CH 303/351 Physical Chemistry with Lab	4		CH 420/352 Instrumental Analysis with Lab	4
<i>CH 254 Introduction to Research</i>	1		CH 392 Undergraduate Research	2
International Cultures Elective	3		CH 482 Chemistry Seminar	1
Creative Arts Elective	3		MA 305 Differential Equations	3
Elective	3		IN 350 Global Studies	3
	14		90 units or more must be taken to transfer	13
Washington University St. Louis – Chemical Engineering				
		4 th year		
EECE 201 Engineering Analysis	3		EECE 210 Environmental Engineering	3
EECE 203 Thermodynamics I in EECE	3		EECE 202 Modeling and Computing	3
ESE 318 Engineering Mathematics A	3		EECE 204 Thermodynamics II in EECE	3
ESE 319 Engineering Mathematics B	3		EECE 301 Transport Phenomena I	3
ESE 326 Probability and Statistics	3		EECE 304 Mass Transfer Operations	3
EECE 311 or EECE 313 Elective	3		ENGR 310 Technical Writing	3
	18			18
		5 th year		
EECE 302 Transport Phenomena II	3			
EECE 305 Materials Science	3			
EECE 401 Chemical Process Dynamics & Control	3		EECE 303 Transport Phenomena III	3
EECE 403 Chemical Reaction Engineering	3		EECE 402 Engineering Capstone	3
EECE 405 Unit Operations Laboratory	3		EN 4501, 4502, 4503 Engineering Professional Practice	3
EECE electives	3		EECE electives	9
	18		60 units or more must be taken at WUSL	18

Millikin University will award Chemistry degree upon completion of engineering degree at WUSL
BOLD-required for transfer to WUSL, *Italics*- prerequisites for required class