

# UNIVERSITY OF DAYTON - SCHOOL OF ENGINEERING

Program - Bachelor of Chemical Engineering <sup>1</sup>  
August 2012

Total: 137 Credit Hours

<u>Dept. No.</u>	<u>Course</u>	<u>Credit Hours</u>	
<u>FRESHMAN YEAR</u>			
CME 101	Introduction to Chemical Engineering	0/1	
CHM 123-124	General Chemistry I, II & Labs	8	
MTH 168-169	Analytic Geometry & Calculus I, II	8	
PHY 206	General Physics I	3	
EGR 103	Engineering Innovation	2	
ENG 100	Writing Seminar I	3	
XXX.XXX	Humanities Base	3	
XXX.XXX	Humanities Base	3	
XXX.XXX	Humanities Base	3	
CMM XXX	Fundamentals of Communications	1	
EGR 100	Engineering Workshops	<u>0</u>	
		35	
<u>SOPHOMORE YEAR</u>			
		<u>1<sup>st</sup> Term</u>	<u>2<sup>nd</sup> Term</u>
CHM 313-314	Organic Chemistry I, II & Labs	3-3-4	3-3-4
CME 200	Professional Development Seminar	1-0-0	1-0-0
CME 203	Material & Energy Balances	3-0-3	
ENG 200	Writing Seminar II	3-0-3	
EGR 202	Engineering Thermo	3-0-3	
MTH 218	Analytic Geometry and Calculus III	4-0-4	
CME 281	Chemical Engineering Computations		3-0-3
MTH 219	Applied Differential Equations		3-0-3
PHY 207	General Physics II		3-0-3
CMM.XXX	Fundamentals of Communication		1-0-1
XXX.XXX	General Education Course		<u>3-0-3</u>
		<u>17</u>	<u>17</u>
<u>JUNIOR YEAR</u>			
CME 311	Chemical Engineering Thermodynamics	3-0-3	
CME 324-325	Transport Phenomena I, II	3-0-3	3-0-3
CME 381	Applied Mathematics for Chemical Engineers	3-0-3	
EGR 201	Engineering Mechanics	3-0-3	
XXX.XXX	General Education Course <sup>3</sup>	3-0-3	
CMM XXX	Fundamentals of Communication	1-0-1	
CME 306	Chemical Reaction Kinetics and Engineering		3-0-3
CME 326L	Transport Phenomena Laboratory		1-3-2
CME 365	Separation Techniques		3-0-3
EGR 203	Electrical & Electronic Circuits		3-0-3
XXX.XXX	General Education Course		<u>3-0-3</u>
		<u>16</u>	<u>17</u>
<u>SENIOR YEAR</u>			
CME 408	Seminar	0/1	0/1
BIO/CHM.zzz	Biology/Chemistry Elective	3-0-3	
CME 430-431	Chemical Engineering Design I, II	3-0-3	3-0-3
CME 452	Process Control	3-0-3	
CME 465	Flow & Heat Transfer Processes	3-0-3	
CME 466L	Chemical Engineering Unit Operations Laboratory	0-5-2	
XXX.XXX	General Education Course	3-0-3	
CME 453L	Process Control Laboratory		0-5-2
CME XXX	Chemical Engineering Elective <sup>2</sup>		3-0-3
XXX.XXX	Engineering/Science Elective <sup>2</sup>		3-0-3
XXX.XXX	Engineering/Science Elective <sup>2</sup>		3-0-3
XXX.XXX	General Education Course		<u>3-0-3</u>
		<u>18</u>	<u>17</u>

<sup>1</sup>All engineering mathematics and science courses must be taken for grading option 1.

<sup>2</sup>Selected from list approved by the Department of Chemical and Materials Engineering.

<sup>3</sup>Ethics requirement - choose from the list approved by the Department of Chemical and Materials Engineering  
All engineering, mathematics and science courses must be taken under Grading Option