

ENGINEERING (CHEMICAL)

NAME	I.D.#	Expected Grad Date	B.S.E. Degree
General Education Requirements			
<u>3</u>	THEO 110 Intro to Christianity		
<u>3</u>	BLIT 210 Christian Scriptures		
<u>3</u>	CMIN 310 Christian Living		
<u>3</u>	Approved Stewardship Course* _____		
<u>3</u>	ENGL 109 College Writing I		
<u>3</u>	COMM 105 Fundamentals of Communication		
<u>3</u>	HIST 200 Western Civilization		
<u>3</u>	Approved Social Science Course* _____		
<u>6</u>	Approved Humanities Courses* Select 3 hours from <u>two</u> different areas: Fine Arts, Literature, Philosophy, Modern Languages _____		
<u>3-8</u>	Elementary Foreign Language I and II OR Approved International Culture course*		
<u>3-4</u>	BIOL 201 or approved biological science course* _____		
*See olivet.edu/registrar for approved list of courses			
Required Supporting Courses:			
<u>4</u>	CHEM 103 General Chemistry I		
<u>4</u>	CHEM 104 General Chemistry II		
<u>4</u>	MATH 147 Calculus I		
<u>4</u>	MATH 148 Calculus II		
<u>4</u>	MATH 261 Calculus III		
<u>3</u>	MATH 357 Differential Equations		
<u>4</u>	PHYS 201 General Physics I		
<u>4</u>	PHYS 202 General Physics II		
Major: 58-60 hours – 2.000 required in major			
<u>3</u>	ENGR 101 Engineering Design I		
<u>3</u>	ENGR 401 Senior Design Project I/Tech Comm		
<u>2</u>	ENGR 402 Senior Design Project II/Exprmt Dsgn		
<u>3</u>	ENGR 403 Engineering Economics		
PLUS completion of the following concentration:			
A. Chemical Concentration			
<u>5</u>	CHEM 311 Organic Chemistry I		
<u>5</u>	CHEM 312 Organic Chemistry II		
<u>3</u>	ENGR 102 Engineering Design II		
<u>3</u>	ENGR 107 Computational Engineering OR COMP 150 Programming: Control Structures		
<u>4</u>	ENGR 212 Engineering Mechanics OR		
<u>3</u>	ENGR 213 Statics and		
<u>3</u>	ENGR 215 Dynamics OR		
<u>3</u>	ENGR 216 Mechanics of Materials		
<u>3</u>	ENGR 220 Electrical Circuits & Systems		
<u>4</u>	ENGR 323 Automatic Controls		
<u>4</u>	ENGR 361 Material and Energy Balances		
<u>4</u>	ENGR 362 Chemical Engineering Thermodynamics		
<u>4</u>	ENGR 363 Transport Phenomena		
<u>3</u>	ENGR 461 Mass Transfer & Staging Operations		
<u>3</u>	ENGR 462 Kinetics & Reactor Design		
All required Engineering and supporting Math and Science courses must be completed with a grade of C or better to be eligible for graduation.			