

ENGINEERING (ARCHITECTURAL or CIVIL)

NAME	I.D.#	Expected Grad Date	B.S.E. Degree
General Education Requirements		A. Architectural Concentration	
<u>3</u>	THEO 101 Christian Formation	<u>3</u>	ENGR 210 Thermo-Fluids Engineering
<u>3</u>	BLIT 202 Christian Scriptures I	<u>3</u>	ENGR 211 Statics & Mechanics
<u>3</u>	BLIT 303 Christian Scriptures II	<u>3</u>	ENGR 215 Dynamics
<u>3</u>	THEO 404 Christian Faith	<u>3</u>	ENGR 220 Electrical Circuits & Systems
<u>3</u>	ENGL 109 College Writing I	<u>3</u>	ENGR 255 Introduction to Architectural Engineering
<u>3</u>	COMM 105 Fundamentals of Communication	<u>3</u>	ENGR 351 Structural Analysis
<u>3</u>	FINA 101 Intro to Fine Arts	<u>3</u>	ENGR 352 Structural Steel Design
<u>3</u>	HIST 200 Western Civilization	<u>3</u>	ENGR 353 Reinforced Concrete Design
<u>3</u>	LIT 205 Studies in Literature	<u>3</u>	ENGR 355 Building Information Modeling
<u>3</u>	Select from: ECON 110, PSCI 101, PSCI 223, PSYC 101, SOCY 120	<u>3</u>	ENGR 455 Construction Management
<u>0-8</u>	Elementary I, II Foreign Language or approved International Culture courses	<u>3</u>	ENGR 456 Electrical Building Systems
<u>3-4</u>	BIOL 201 General Biological Science OR approved biological Science lab course	<u>3</u>	ENGR 457 Mechanical Building Systems
<u>2-3</u>	PHED 190 Wellness or PHED 126 Nutrition	<u>3</u>	GEOL 360 GIS and GPS
<u>1</u>	PHED 191 Applied Fitness		
Required Supporting Courses:		B. Civil Concentration	
<u>4</u>	CHEM 103 General Chemistry I	<u>3</u>	ENGR 210 Thermo-Fluids Engineering
<u>4</u>	MATH 147 Calculus I	<u>3</u>	ENGR 211 Statics & Mechanics
<u>4</u>	MATH 148 Calculus II	<u>3</u>	ENGR 215 Dynamics
<u>3-4</u>	MATH 241 Statistics or MATH 351 Linear Algebra	<u>3</u>	ENGR 220 Electrical Circuits & Systems
<u>4</u>	MATH 261 Calculus III	<u>3</u>	ENGR 235 Introduction to Environmental Engineering
<u>3</u>	MATH 357 Differential Equations	<u>3</u>	ENGR 251 Transportation Planning & Analysis
<u>5</u>	PHYS 201 General Physics I	<u>3</u>	ENGR 351 Structural Analysis
<u>5</u>	PHYS 202 General Physics II	<u>3</u>	ENGR 352 Structural Steel Design
		<u>3</u>	ENGR 353 Reinforced Concrete Design
		<u>3</u>	ENGR 354 Introduction to Soil Mechanics
		<u>3</u>	ENGR 356 Collection/Pumping of Water/ Wastewater
		<u>3</u>	ENGR 451 Storm Water Hydraulics/Hydrology
		<u>3</u>	ENGR 452 Site Design
		<u>3</u>	ENGR 455 Construction Management
Major: 57-60 hours			
<u>3</u>	ENGR 101 Engineering Design I		
<u>3</u>	ENGR 102 Engineering Design II		
<u>3</u>	ENGR 107 Computational Engineering		
<u>2</u>	ENGR 401 Senior Project Design I		
<u>2</u>	ENGR 402 Senior Project Design II		
<u>3</u>	ENGR 403 Engineering Economics		
<u>3</u>	ENGR 404 Tech. Comm./Exper. Design		

PLUS completion of one of the following concentrations: