

**ENGINEERING (INDUSTRIAL or MECHANICAL)**

NAME	I.D.#	Expected Grad Date	B.S.E. Degree
<b>General Education Requirements</b>		<b>A. Industrial Concentration</b>	
3	THEO 101 Christian Formation	4	ACCT 110 Financial Accounting
3	BLIT 202 Christian Scriptures I	4	ACCT 357 Cost Accounting
3	BLIT 303 Christian Scriptures II	3	BSNS 171 Business Computer Apps/Communication
3	THEO 404 Christian Faith	3	BSNS 271 Business Computations/Mgmt. Support
3	ENGL 109 College Writing I	3	BSNS 303 Management Info Systems
3	COMM 105 Fundamentals of Communication	3	BSNS 367 Organizational Behavior
3	FINA 101 Intro to Fine Arts	3	BSNS 480 Enterprise Resource Planning I
3	HIST 200 Western Civilization	3	BSNS 481 Enterprise Resource Planning II
3	LIT 205 Studies in Literature	3	ENGR 107 Computational Engineering
3	Select from: ECON 110, PSCI 101, PSCI 223, PSYC 101, SOCY 120	3	ENGR 210 Thermo-Fluids Engineering
0-8	Elementary I, II Foreign Language or approved International Culture courses	3	ENGR 211 Statics & Mechanics
3-4	BIOL 201 General Biological Science <b>OR</b> approved biological Science lab course	3	ENGR 220 Electrical Circuits & Systems
2-3	PHED 190 Wellness or PHED 126 Nutrition	3	ENGR 323 Automatic Controls
1	PHED 191 Applied Fitness	3	ENGR 381 Operations Management
<b>Required Supporting Courses:</b>		3	ENGR 382 Industrial Applications of Statistics
4	CHEM 103 General Chemistry I	3	ENGR 481 Manufacturing Processes/Work Analysis
4	MATH 147 Calculus I	<b>B. Mechanical Concentration:</b>	
4	MATH 148 Calculus II	3-4	ENGR 107 Comp. Engrn. or CSIS 251 Prin of Prog. I
3-4	MATH 241 Statistics <b>or</b> MATH 351 Linear Algebra ( <b>Mechanical only</b> )	3	ENGR 211 Statics & Mechanics
4	MATH 261 Calculus III	3	ENGR 215 Dynamics
3	MATH 357 Differential Equations	3	ENGR 220 Electrical Circuit & Systems
5	PHYS 201 General Physics I	4	ENGR 311 Material Science
5	PHYS 202 General Physics II	4	ENGR 312 Thermodynamics
<b>Major: 57-66 hours</b>		3	ENGR 314 Computer Aided Engrn. w/ Creo
3	ENGR 101 Engineering Design I	3	ENGR 315 Fluid Mechanics
3	ENGR 102 Engineering Design II	4	ENGR 323 Automatic Controls
2	ENGR 401 Senior Project Design I	4	ENGR 411 Vibration Analysis
2	ENGR 402 Senior Project Design II	4	ENGR 412 Machine Design & Dynamics
3	ENGR 403 Engineering Economics	3	ENGR 415 Heat Transfer
3	ENGR 404 Tech. Comm./Exper. Design	4	

**PLUS completion of one of the following concentrations:**