

**ENGINEERING (SOFTWARE, COMPUTER or ELECTRICAL)**

NAME	I.D.#	Expected Grad Date	B.S.E. Degree
<b>General Education Requirements</b>			
<u>3</u>	THEO 101 Christian Formation		
<u>3</u>	BLIT 202 Christian Scriptures I		
<u>3</u>	BLIT 303 Christian Scriptures II		
<u>3</u>	THEO 404 Christian Faith		
<u>3</u>	ENGL 109 College Writing I		
<u>3</u>	COMM 105 Fundamentals of Communication		
<u>3</u>	FINA 101 Intro to Fine Arts		
<u>3</u>	HIST 200 Western Civilization		
<u>3</u>	LIT 205 Studies in Literature		
<u>3</u>	Select from: ECON 110, PSCI 101, PSCI 223, PSYC 101, SOCY 120		
<u>6-8</u>	Elementary I, II Foreign Language or approved International Culture courses		
<u>3-4</u>	BIOL 201 General Biological Science <b>OR</b> approved biological Science lab course		
<u>2-3</u>	PHED 190 Wellness or PHED 126 Nutrition		
<u>1</u>	PHED 191 Applied Fitness		
<b>Required Supporting Courses:</b>			
<u>4</u>	CHEM 103 General Chemistry I		
<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>5</u>	PHYS 201 General Physics I		
<u>5</u>	PHYS 202 General Physics II		
<b>Additional Math Requirement:</b>			
<u>3</u>	MATH 351 Linear Algebra ( <b>Software only</b> )		
<u>3-4</u>	MATH 241 Statistics <b>or</b> MATH 351 Linear Algebra ( <b>Comp/Elec only</b> )		
<b>Major: 59-61 hours</b>			
<u>3</u>	ENGR 101 Engineering Design I		
<u>3</u>	ENGR 102 Engineering Design II		
<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 Technical Communications		
<b>PLUS completion of one of the following concentrations:</b>			
<b>A. Software Concentration:</b>			
<u>4</u>	CSIS 245 Database and Information Systems		
<u>4</u>	CSIS 251 Principles of Programming I		
<u>3</u>	CSIS 252 Principles of Programming II		
<u>3</u>	CSIS 311 Discrete Mathematics		
<u>4</u>	CSIS 326 Network Administration		
<u>3</u>	CSIS 340 Human Computer Interface		
<u>3</u>	CSIS 381 Systems Programming		
<u>3</u>	CSIS 457 Software Engineering		
<u>3</u>	ENGR 107 Computational Engineering		
<u>3</u>	ENGR 210 Thermo-Fluids Engineering		
<u>3</u>	ENGR 221 Digital Systems		
<u>3</u>	ENGR 222 Electric Circuit Analysis		
<u>3</u>	ENGR 241 Microprocessors		
<u>3</u>	ENGR 341 Embedded Systems		
<b>B. Computer Concentration:</b>			
<u>4</u>	CSIS 251 Principles of Programming I		
<u>3</u>	CSIS 252 Principles of Programming II		
<u>3</u>	CSIS 311 Discrete Mathematics		
<u>3</u>	ENGR 210 Thermo-Fluids Engineering		
<u>3</u>	ENGR 221 Digital Systems		
<u>3</u>	ENGR 222 Electric Circuit Analysis		
<u>3</u>	ENGR 241 Microprocessors		
<u>3</u>	ENGR 321 Digital Electronics		
<u>4</u>	ENGR 322 Analog Electronics		
<u>3</u>	ENGR 341 Embedded Systems		
<u>3</u>	ENGR 421 Circuits and Signal Processing		
<u>4</u>	ENGR 422 Communication Systems		
<u>3</u>	ENGR 423 Electromagnetics		
<u>3</u>	ENGR 441 Computer Architecture		
<b>C. Electrical Concentration:</b>			
<u>3-4</u>	ENGR 107 Comp. Engr. <b>or</b> CSIS 251 Prin of Prog. I		
<u>3</u>	ENGR 210 Thermo-Fluids Engineering		
<u>3</u>	ENGR 211 Statics & Mechanics		
<u>3</u>	ENGR 215 Dynamics		
<u>3</u>	ENGR 221 Digital Systems		
<u>3</u>	ENGR 222 Electric Circuit Analysis		
<u>4</u>	ENGR 311 Material Science		
<u>3</u>	ENGR 321 Digital Electronics		
<u>4</u>	ENGR 322 Analog Electronics		
<u>4</u>	ENGR 323 Automatic Controls		
<u>3</u>	ENGR 421 Circuits/Signal Process.		
<u>4</u>	ENGR 422 Comm. Systems		
<u>3</u>	ENGR 423 Electromagnetics		