MESSIAH COLLEGE
ENGINEERING

Electrical Concentration Guideline

FIRST YEAR

FALL		SPRING	
CHEM 105 Chemistry	4	MATH 112 Calculus II	4
MATH 111 Calculus I	4	PHYS 211 General Physics I	4
ENGR 102 Intro to Engineering	2	ENGR 101 Engineering Graphics	2
IDFY 101 First Year Seminar	3	ENGR 236 Circuit I	4
General Education	3	IDCR 151 Created & Called for Community	3
	16		17
		ENGR 201 Group Orientation*	

SECOND YEAR

FALL		SPRING	
MATH 211 Calculus III	4	MATH 308 Differential Equations	3
MATH 261 Linear Algebra	3	**CIS 181 Computer Programming I	3
PHYS 212 General Physics II	4	ENGR 201 Group Orientation	1
ENGR 231 Engineering Statics	3	ENGR 242 Experimental Methods	3
General Education	3	Physical Fitness	1
	17	General Education	6
			17

THIRD YEAR

FALL		SPRING	
ENGR 288 Project I	1	ENGR 290 Engineering Economics	2
ENGR 301 Seminar I	1	ENGR 302 Seminar II	1
ENGR 340 Analog Electronics	3	ENGR 342 Microprocessor Applications	4
ENGR 336 Circuits II	3	ENGR 364 Electronic Devices	4
ENGR 367 Electromagnetics	3	ENGR 365 Linear Systems	3
PHED 101 Intro. to Wellness	2	ENGR 388 Project II	1
General Education	3	General Education	3
	16		18

FOURTH YEAR

FALL		SPRING	
ENGR 366 Control Systems	4	**ENGR 254 Materials Engineering	4
ENGR 488 Project III	2	ENGR 369 Communications Systems	3
General Education	9	ENGR 489 Project IV	2
	15	General Education	6
			15

Total Credits 131

*Requires department approval.
**Course can be taken any time after the second semester.
This guideline applies to students who entered the Engineering curriculum during the 2012-13 and 2013-14 academic years. September 6, 2013