Study Plan for B.S.E., *INTERDISCIPLINARY ENGINEERING* & Bioelectrical emphasis

(2019-20 Catalog) ***(MTH 124 Placement - 5 Year Program)***

Student Name: _____

Student ID#: G _____

	1st Semester: Fall____	Credits	Grade	Semester Completed	2nd Semester: Winter ____	Credits	Grade	Semester Completed	Semester: S/S ____	Credits	Grade	Semester Completed
1st Year	MTH 124 Functions & Models	5			* MTH 201 Calculus I	4						
	* WRT 150 Writ Strategies	4			* EGR 106 Intro to Egr Design I	3						
	^ EGR 100 Intro to EGR	1			* CHM 115 Chemistry I	4						
	GE - Arts _____	3			GE - Hist _____	3						
	^ EGR 180 EGR Prob Solving	3										
	3rd Semester: Fall____	**Credits**	**Grade**	**Semester Completed**	**4th Semester: Winter ____**	**Credits**	**Grade**	**Semester Completed**	**Semester: S/S ____**	**Credits**	**Grade**	**Semester Completed**
2nd Year	* MTH 202 Calculus II	4			* MTH 203 Calculus III	4						
	* EGR 107 Intro to Egr Design II	3			* PHY 230 Physics I	5						
	@ GE - P & L (PHI 102 Ethics)	3			* STA 220 Statistical Modeling	2						
	! GE-LS (BMS 202)	4			* EGR 220 Measure/Data Analysis	1						
					# GE - GP _____	3						
	5th Semester: Fall____	**Credits**	**Grade**	**Semester Completed**	**6th Semester: Winter ____**	**Credits**	**Grade**	**Semester Completed**	**Semester: S/S ____**	**Credits**	**Grade**	**Semester Completed**
3rd Year	+ * PHY 234/1 Physics II	4/5			* MTH 302 Lin Alg & DEQ	4			EGR 290 Engrg Co-op I	3		
	* EGR 209 Mech & Mach	4			* EGR 223 Prob & Signals	3						
	$ EGR 224 Intro Dig Sys Desig	3			* EGR 257 Elect Mat'ls & Devices	4						
	* EGR 214 Circuit Analysis I	4			* EGR 226 MicroCtrl Pgm Appl	4						
	* EGR 289 Engrg Co-op Prep	1										
	7th Semester: Fall____	**Credits**	**Grade**	**Semester Completed**	**Semester: Winter ____**	**Credits**	**Grade**	**Semester Completed**	**8th Semester: S/S ____**	**Credits**	**Grade**	**Semester Completed**
4th Year	EGR 314 Circuit Analysis II	4			EGR 390 Engrg Co-op II (SWS)	3			EGR 323 Signals & Sys	3		
	EGR 315 Elect Circuits I	4							CHM 230 Org & Biochem	4		
	EGR 326 Embedded Sys Des	4							• GE - SBS _____	3		
	GE - Issue _____	3							% ECO 210/211 Economics	3		
	Semester: Fall____	**Credits**	**Grade**	**Semester Completed**	**9th Semester: Winter ____**	**Credits**	**Grade**	**Semester Completed**	**10th Semester: S/S ____**	**Credits**	**Grade**	**Semester Completed**
5th Year	EGR 490 Engrg Co-op III	3			EGR 485 Sr Project I	1			EGR 486 Sr Project II	2		
	EGR 434 Bioelec Potentials	3			EGR 403 Med Dev Design	3			GE - Issue _____	3		
					& EGR 432 Biomed Imaging	3						
					EGR 435 Math Model Phys	3						
					GE - US _____	3						

PCEC Student Services: (616)331-6025

^ Not required, but strongly recommended for success. Students are advised to take ***either*** EGR 100 ***or*** EGR 180.
* Engineering Foundation course
\+ Students may enroll in PHY 231 instead of PHY 234
• Consider taking a course that doubles as SBS and US (See Gen Ed guide for selections)
\# Consider taking a course that doubles as GP and Issue (See Gen Ed guide for selections)
@ An ethics course is required in the engineering program (PHI 102)
Consider taking PHI 102 as an SWS
% ECO 210 or 211 is required in the engineering curriculum. Also fulfills one SBS GenEd requirement.
& Students may take EGR 433 (Electronic Instrumentation)
! Required for major
$ Prerequisite for upper-division course work

Secondary Admissions Criteria:

- A GPA of 2.7 or above in the Engineering Foundation courses

- Completion of each course in the Engineering Foundation with a grade of C (2.0) or above, with no more than one repeat

- Completion of preparation for placement in the cooperative engineering education, EGR 289

Recommendation:

It is strongly encouraged that students do not begin or break a curriculum thread by taking courses at other institutions; e.g., take the