

Study Plan for B.S.E., **INTERDISCIPLINARY ENGINEERING & Renewable Energy emphasis (Solar/All Track)**

Student Name: _____

(2019-20 Catalog)

(MTH 201 Placement - 4 Year Program)

Minor: _____

Student ID#: G

Year	Semester	Credits	Grade	Semester Completed	Semester	Credits	Grade	Semester Completed	Semester	Credits	Grade	Semester Completed
1st Year	1st Semester: Fall _____				2nd Semester: Winter _____	Semester: S/S _____						
	* MTH	201	Calculus I	4		* MTH	202	Calculus II	4			
	* WRT	150	Writ Strategies	4		* PHY	230	Physics I	5			
	* EGR	106	Intro to Egr Design I	3		* EGR	107	Intro to Egr Design II	3			
	* CHM	115	Chemistry I	4		* STA	220	Statistical Modeling	2			
					* EGR	220	Measure/Data Analysis	1				
2nd Year	3rd Semester: Fall _____				4th Semester: Winter _____	Semester: S/S _____						
	* MTH	203	Calculus III	4		* MTH	302	Lin Alg & DEQ	4			
	+ * PHY	234/1	Physics II	4/5		* EGR	214	Circuit Analysis I	4			
	~ EGR	224	Intro Dig Sys Design	3		* EGR	257	Elec. Materials	4			
	* EGR	209	Meech & Mach	4		* EGR	226	MicroCtrl Pgm Appl	4			
	* EGR	289	Engrg Co-op Prep	1								
3rd Year	5th Semester: Fall _____				Semester: Winter _____	6th Semester: S/S _____						
	# EGR	314, 360 or 362		4		EGR	390	Engrg Co-op II (s/w)	3			
	# EGR	326, 345 or 346		4		^ GEO	360	Earth Resources	3			
	& IE	Elec		4								
	• GE	SBS/US		3								
4th Year	Semester: Fall _____				7th Semester: Winter _____	8th Semester: S/S _____						
	EGR	490	Engrg Co-op III	3		EGR	485	Sr Project I	1			
	EGR	463	Alternative Energy	3		^ EGR	406	Renewable Energy	3			
						EGR	413	Matls Energy Storage	3			
						& IE	Elec.	(EGR 430)	3/4			
	% ECO	210/211	Micro/Macroecon.	3								

PCEC Student Services: (616)331-6025

- * 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)
- @ An ethics course is required in the engineering program (PHI 102 or another ethics course in General Education).
- % ECO 210 or 211 is required in the engineering curriculum. Also fulfills one SBS GenEd requirement.
- # Select one for required IE coursework (EGR 314 and EGR 326 recommended)
- & A total of four electives is required. Please see a faculty advisor ASAP to select electives.
- ^ Emphasis required general education course. Check availability ASAP for planning purposes.
- ! Not required, but highly recommended for success.
- ~ IE Prerequisite course for selected upper-level electives

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 per Foundations course**

- 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 MTH 201 equivalent elsewhere, return to GV and continue in the math thread with MTH

Electives	Credits	Title	Semester	Course Prerequisites	Energy Focus
EGR 314	4	Circuit Analysis II	Fall	Only if not taken for required course, no double dipping	Solar
EGR 315	4	Electronic Circuits I	Fall		Solar
EGR 326	4	Embedded System Design	Fall		Solar
EGR 430	4	Electromechanics	Winter	EGR 330	All
EGR 455	4	Automatic Control	Summer	EGR 323	All
EGR 435	3	Math Model of Phys Sys	Winter	MTH 302	All