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

Student Name: _____

(2019-20 Catalog) ***(MTH 201 Placement - 4 Year Program)*** **Minor:** _____ **Student ID#:** G _____

						Credits	Grade	Semester Completed
1st Year	**1st Semester: Fall____**							
	*	MTH	201	Calculus I		4		
	*	WRT	150	Writ Strategies		4		
	*	EGR	106	Intro to Egr Design I		3		
	*	CHM	115	Chemistry I		4		
	2nd Semester: Winter ____							
	*	MTH	202	Calculus II		4		
	*	PHY	230	Physics I		5		
	*	EGR	107	Intro to Egr Design II		3		
	*	STA	220	Statistical Modeling		2		
	*	EGR	220	Measure/Data Analysis		1		
	Semester: S/S ____							
		GE-Art		_____		3		
2nd Year	**3rd Semester: Fall____**							
	*	MTH	203	Calculus III		4		
+	*	PHY	234/1	Physics II		4/5		
	*	EGR	226	MicroCtrl Pgm Appl		4		
	*	EGR	209	Mech & Mach		4		
	*	EGR	289	Engrg Co-op Prep		1		
	4th Semester: Winter ____							
	*	MTH	302	Lin Alg & DEQ		4		
	*	EGR	309	Machine Design I		4		
	*	EGR	250	Material Sci & Egr		4		
	*	EGR	214	Circuit Analysis I		4		
	Semester: S/S ____							
		EGR	290	Engrg Co-op I		3		
		STA	216	Inter Applied Stats		3		
3rd Year	**5th Semester: Fall____**							
		EGR	345	Dyn Sys Mod		4		
		EGR	367	Mfg Processes		4		
		STA	321	App Regres Anlys		3		
=		CIS	161/2	Comp Sci		3		
	Semester: Winter ____							
		EGR	390	Engrg Co-op II (SWS)		3		
		STA	426	Multivar Data Anlys		3		
	6th Semester: S/S ____							
		EGR	362	Thermo-Fluids		4		
		EGR	440	Production Models		3		
		EGR	441	Engrg Econ/QC/Mfg Ops		4		
%		ECO	210/211	Economics		3		
4th Year	**Semester: Fall____**							
		EGR	490	Engrg Co-op III		3		
		GE - Issue		_____		3		
	7th Semester: Winter ____							
		EGR	485	Sr Project I		1		
		CIS	335	Data Mining		3		
		CIS	360	Info Mgt & Sci		3		
		GE - HP		_____		3		
@		GE - P & L (PHI 102 Ethics)				3		
	8th Semester: S/S ____							
		EGR	486	Sr Project II		2		
		IE	Elec.	(STA 314, EGR 641 or EGR 642)		3		
•		GE - SBS /US		_____		3		
#		GE - GP/Issue		_____		3		
		GE - LS		_____		3		

PCEC Student Services: (616)331-6025

* Engineering Foundation course - requires PDM foundations
\+ 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 or another ethics course in General Education).
% ECO 210 or 211 is required in the engineering curriculum. Also fulfills one SBS GenEd requirement.
= Either CIS 161 or CIS 162 is required

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 202.