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

Student Name: _____

(2018-19 Catalog) ***(MTH 201 Placement - 4 Year Program)*** **Minor:** _____ **Student ID#:** G _____

	1st Semester: Fall____	Credits	Grade	Semester Completed
1st Year	* 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 ____	Credits	Grade	Semester Completed
	* 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 ____	Credits	Grade	Semester Completed
	GE-Art _____	3		

	3rd Semester: Fall____	Credits	Grade	Semester Completed
2nd Year	* 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 ____	Credits	Grade	Semester Completed
	* 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 ____	Credits	Grade	Semester Completed
	EGR 290 Engrg Co-op I	3		
	STA 216 Inter Applied Stats	3		

	5th Semester: Fall____	Credits	Grade	Semester Completed
3rd Year	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 ____	Credits	Grade	Semester Completed
	EGR 390 Engrg Co-op II (SWS)	3		
	STA 426 Multivar Data Anlys	3		

	6th Semester: S/S ____	Credits	Grade	Semester Completed
	EGR 362 Thermo-Fluids	4		
	EGR 440 Production Models	3		
	EGR 441 Engrg Econ/QC/Mfg Ops	4		
%	ECO 210/211 Economics	3		

	Semester: Fall____	Credits	Grade	Semester Completed
4th Year	EGR 490 Engrg Co-op III	3		
	GE - Issue _____	3		

	7th Semester: Winter ____	Credits	Grade	Semester Completed
	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 ____	Credits	Grade	Semester Completed
	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.