

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

(2018-19 Catalog) (MTH 123 Placement - 5 Year Program)

Minor: _____

Student Name: _____

Student ID#: G

Year	Semester	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed	Semester: S/S	Credits	Grade	Semester Completed
1st Year	1st Semester: Fall										
	MTH 123 Trigonometry	3									
	* WRT 150 Writ Strategies	4									
	^ EGR 100 Intro to Engrg	1									
	GE - HP _____	3									
GE - Arts _____	3										
2nd Year	2nd Semester: Winter										
	* MTH 201 Calculus I	4									
	* CHM 115 Chemistry I	4									
	* EGR 106 Intro to Egr Design I	3									
	• GE-SBS _____	3									
3rd Year	3rd Semester: Fall										
	* MTH 202 Calculus II	4									
	* EGR 107 Intro to Egr Design II	3									
	• GE - US _____	3									
	GE - LS _____	3									
4th Year	4th Semester: Winter										
	* MTH 203 Calculus III	4									
	* STA 220 Statistical Modeling	2									
	* EGR 220 Measure/Data Analysis	1									
	* PHY 230 Physics I	5									
% ECO 210/211 Economics	3										
5th Year	5th Semester: Fall										
	+ * 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									
6th Year	6th 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									
7th Year	Semester: Winter										
	EGR 390 Engrg Co-op II (SWS)	3									
	8th Semester: S/S										
	EGR 362 Thermo-Fluids	4									
	EGR 440 Production Models	3									
EGR 441 Engrg Econ/QC/Mfg Ops	4										
# GE - Issue _____	3										
8th Year	Semester: Fall										
	EGR 490 Engrg Co-op III	3									
	9th Semester: Winter										
	EGR 485 Sr Project I	1									
	CIS 335 Data Mining	3									
CIS 360 Info Mgt & Sci	3										
STA 426 Multivar Data Anlys	3										
GE - Issue _____	3										
9th Year	Semester: S/S										
	EGR 486 Sr Project II	2									
	IE Elec. (STA 314, EGR 641, or EGR 642)	3									
	@ GE - P & L (PHI 102 Ethics)	3									
	# GE - GP _____	3									

PCEC Student Services: (616)331-6025

- * Engineering Foundation course
- + Students may enroll in PHY 231 instead of PHY 234
- ^ Not required, but strongly recommended for success
- 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 Gen Ed 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