Study Plan for B.S.E., _INTERDISCIPLINARY ENGINEERING_ & Data Science emphasis

Student Name: _____

(2018-19 Catalog)   _(MTH 110 Placement - 5 Year Program)_   Minor: _____   Student ID#: _G_ _____

1st Year

1st Semester: Fall____	Credits	Grade	Semester Completed
MTH 110 Algebra	4	_____	_____
* WRT 150 Writ Strategies	4	_____	_____
^ EGR 100 Intro to Engrg	1	_____	_____
GE - Arts _____	3	_____	_____
GE - HP _____	3	_____	_____

2nd Semester: Winter ____	Credits	Grade	Semester Completed
MTH 124 Functions & Models	5	_____	_____
* CHM 115 Chemistry I	4	_____	_____
• GE-SBS _____	3	_____	_____
GE - LS _____	3	_____	_____

Semester: S/S ____	Credits	Grade	Semester Completed
_____	__	__	_____
_____	__	__	_____
_____	__	__	_____

2nd Year

3rd Semester: Fall____	Credits	Grade	Semester Completed
* MTH 201 Calculus I	4	_____	_____
* EGR 106 Intro to Egr Design I	3	_____	_____
% ECO 210/211 Economics	3	_____	_____
@ GE - P & L (PHI 102 Ethics)	3	_____	_____

4th Semester: Winter ____	Credits	Grade	Semester Completed
* MTH 202 Calculus II	4	_____	_____
* EGR 107 Intro to Egr Design II	3	_____	_____
* PHY 230 Physics I	5	_____	_____
* STA 220 Statistical Modeling	2	_____	_____
* EGR 220 Measure/Data Analysis	1	_____	_____

Semester: S/S ____	Credits	Grade	Semester Completed
_____	__	__	_____
_____	__	__	_____

3rd Year

5th Semester: Fall____	Credits	Grade	Semester Completed
* MTH 203 Calculus III	4	_____	_____
+ * PHY 234/1 Physics II	4/5	_____	_____
* EGR 209 Mech & Mach	4	_____	_____
* EGR 226 MicroCtrl Pgm Appl	4	_____	_____
* EGR 289 Engrg Co-op Prep	1	_____	_____

6th Semester: Winter ____	Credits	Grade	Semester Completed
* MTH 302 Lin Alg & DEQ	4	_____	_____
* EGR 309 Machine Design I	4	_____	_____
* EGR 250 Materials Science	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	_____	_____

4th Year

7th Semester: Fall____	Credits	Grade	Semester Completed
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	_____	_____

8th 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	_____	_____
# GE - Issue _____	3	_____	_____

5th Year

Semester: Fall____	Credits	Grade	Semester Completed
EGR 490 Engrg Co-op III	3	_____	_____

9th Semester: Winter ____	Credits	Grade	Semester Completed
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	_____	_____

10th Semester: S/S ____	Credits	Grade	Semester Completed
EGR 486 Sr Project II	2	_____	_____
IE Elec. (STA 314, EGR 641, or EGR 642)	3	_____	_____
# GE - GP _____	3	_____	_____
• GE - US _____	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**

- 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.