Study Plan for B.S.E., INTERDISCIPLINARY ENGINEERING & Data Science emphasis Student Name: (2018-19 Catalog) Student ID#: G (MTH 122 Placement - 5 Year Program) Semester Semester Semester 1st Semester: Fall_ 2nd Semester: Winter Semester: S/S_ Grade Completed Grade Completed Grade Completed MTH 122 College Algebra MTH 123 Trigonometry * WRT 150 Writ Strategies CHM 115 Chemistry I ^ EGR 100 Intro to Engrg GE - Hist GE - LS GE - Arts GE-SBS Semester Semester Semester 3rd Semester: Fall Grade Completed 4th Semester: Winter Grade Completed Semester: S/S Grade Completed * MTH 201 Calculus I MTH 202 Calculus II Year * EGR 106 Intro to Egr Design I 107 Intro to Egr Design Il 3 % ECO 210/211 Economics * PHY 230 Physics I @ GE - P & L (PHI 102 Ethics) * STA 220 Engrg Statistics * EGR 220 Engrg Stats Lab Semester Semester Semester 5th Semester: Fall Grade Completed 6th Semester: Winter Grade Completed Semester: S/S Grade Completed + * PHY 234/1 Physics II MTH 302 Lin Alg & DEQ EGR 290 Engrg Co-op I 4/5 * EGR 309 Machine Design I * EGR 226 MicroCtrl Pgm Appl STA 216 Inter Applied Stats 4

3r	* EGR 289 Engrg Co-op Prep	1		* EGR 214 Circuit Analysis I 4	
4th Year	7th Semester: Fall EGR 345 Dyn Sys Mod EGR 367 Mfg Processes STA 321 App Regres Anlys = CIS 161/2 Comp Sci	3	Semester Completed	EGR 390 Engrg Co-op II (SWS) 3 & EGR 362 Thermo-Fluids 4 _ EGR 440 Production Models 3 _ EGR 441 Engrg Econ/QC/Mfg Ops 4 _	Semester Grade Completed
5th Year	Semester: Fall EGR 490 Engrg Co-op III	S Grade	Semester Completed	EGR 485 Sr Project I 1	Semester Grade Completed

* EGR 250 Material Sci & Egr

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* EGR 209 Mech & Mach

- 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.
- & Students may take EGR 362-Thermo Fluids or EGR 360-Thermo (Fall only)
- 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.