Study Plan for B.S.E., INTERDISCIPLINARY ENGINEERING with Design & Innovation emphasis Student Name: (2018-19 Catalog) (MTH 122 Placement - 5 Year Program) Student ID#: G Semester Semester Semester 1st Semester: Fall Grade Completed 2nd Semester: Winter Grade Completed Semester: S/S 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 - Arts @ GE - P & L (PHI 102 Ethics) · GE-SBS Semester Semester Semester Grade Completed Completed 3rd Semester: Fall Completed 4th Semester: Winter Semester: S/S * MTH 201 Calculus I 202 Calculus II * EGR 106 Intro to Egr Design I 3 EGR Intro to Egr Design II 3 GE - LS PHY 230 Physics I ~ IDS 101 Inov & Prob Solving 220 Engrg Statistics STA * EGR 220 Engrg Stats Lab Semester Semester Semester Grade Completed Grade Completed 5th Semester: Fall_ 6th Semester: Winter _ Semester: S/S Grade Completed EGR 290 Engrg Co-op I 3 * MTH 203 Calculus III MTH 302 Lin Alg & DEQ EGR 309 Machine Design I * PHY 234/1 Physics II * EGR 226 MicroCtrl Pgm Appl EGR 250 Materials Science * EGR 209 Mech & Mach EGR 214 Circuit Analysis I 3rd * EGR 289 Engrg Co-op Prep Semester Semester Semester 7th Semester: Fall_ Completed Semester: Winter Completed 8th Semester: S/S EGR 301 Fund Prod Des EGR 390 Engrg Co-op II (SWS 3 EGR 362 Thermo-Fluid Sys 4 EGR 345 Dyn Sys Mod LIB 323 Design Thinking IE Elec __ EGR 367 Mfg Processes GE - GP ~ MDA 112 Design Drawing I LIB 310 Creativity Semester Semester Semester 9th Semester: Winter 10th Semester: S/S Semester: Fall Completed Grade Completed Completed EGR 485 Sr Project I EGR 490 Engrg Co-op III EGR 486 Sr Project II 5th Year ~ IDS 313 Thought & Design II 3 413 Thought & Design III 3 % ECO 210/211 Economics IDS 312 Human Innovation

PCEC Student Services: (616)331-6025

- * Engineering Foundation course
- + 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). Consider taking PHI 102 as an SWS.
- % ECO 210 or 211 is required in the engineering curriculum. Also fulfills one SBS Gen Ed requirement.
- Students may enroll in EGR 362 or EGR 360 Thermodynamics (Fall)
- Students may enroll in EGR 401-Adv. Product Design (Winter), EGR 403-Medical Device Design (Winter), or EGR 405-Material Failure (Spring/Summer)

GE - US GE - Issue

- ~ Course is only offered at Cornerstone University
- ! LIB 310 fulfills an Issues requirement.
- Not required, strongly encouraged for student success.

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.