

Study Plan for B.S.E., INTERDISCIPLINARY ENGINEERING & Engineering Management emphasis  
 (2018-19 Catalog) (MTH 123 Placement - 5 Year Program)

Student Name: \_\_\_\_\_  
 Student ID#: G

<b>1st Year</b> <b>1st Semester: Fall</b> _____ Credits _____ MTH 123 Trigonometry 3 _____ * WRT 150 Writ Strategies 4 _____ ^ EGR 100 Intro to Engrg 1 _____ GE - Hist 3 _____ GE - Arts 3 _____	<b>2nd Semester: Winter</b> _____ Credits _____ * MTH 201 Calculus I 4 _____ * CHM 115 Chemistry I 4 _____ * EGR 106 Intro to Egr Design I 3 _____ • GE-SBS 3 _____	<b>Semester: S/S</b> _____ Credits _____ _____ _____ _____ _____ _____ _____	
	<b>3rd Semester: Fall</b> _____ Credits _____ * MTH 202 Calculus II 4 _____ * EGR 107 Intro to Egr Design II 3 _____ GE - LS 3 _____ GE - US 3 _____	<b>4th Semester: Winter</b> _____ Credits _____ * MTH 203 Calculus III 4 _____ * STA 220 Engrg Statistics 2 _____ * EGR 220 Engrg Stats Lab 1 _____ * PHY 230 Physics I 5 _____ @ GE - P & L (PHI 102 Ethics) 3 _____	<b>Semester: S/S</b> _____ Credits _____ _____ _____ _____ _____ _____ _____
	<b>5th Semester: Fall</b> _____ Credits _____ + * 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 _____	<b>6th Semester: Winter</b> _____ Credits _____ * MTH 302 Lin Alg & DEQ 4 _____ * EGR 309 Machine Design I 4 _____ * EGR 250 Material Sci & Egr 4 _____ * EGR 214 Circuit Analysis I 4 _____	<b>Semester: S/S</b> _____ Credits _____ EGR 290 Engrg Co-op I 3 _____
	<b>7th Semester: Fall</b> _____ Credits _____ EGR 345 Dyn Sys Mod 4 _____ EGR 367 Mfg Processes 4 _____ ACC 212 Principles of Fin Acc 3 _____ BUS 201 Legal Env for Bus 3 _____	<b>Semester: Winter</b> _____ Credits _____ EGR 390 Engrg Co-op II (SWS) 3 _____ GE - Issue 3 _____	<b>8th Semester: S/S</b> _____ Credits _____ & EGR 362 Thermo-Fluids 4 _____ EGR 440 Production Models 3 _____ EGR 441 Engrg Econ/QC/Mfg Ops 4 _____ ACC 213 Financial Acct 3 _____
	<b>Semester: Fall</b> _____ Credits _____ EGR 490 Engrg Co-op III 3 _____ GE - Issue 3 _____	<b>9th Semester: Winter</b> _____ Credits _____ EGR 485 Sr Project I 1 _____ FIN 320 Managerial Fin 3 _____ MGT 331 Concepts of Mgt 3 _____ # GE - GP 3 _____ % ECO 210/211 Economics 3 _____	<b>10th Semester: S/S</b> _____ Credits _____ EGR 486 Sr Project II 2 _____ MKT 350 Marketing MGT 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. Students are advised to take either EGR 100 or EGR 180.
- 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)

**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