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

**Student Name:** Student ID#: G(2019-20 Catalog) (MTH 123 Placement - 5 Year Program) Semester Semester Semester 1st Semester: Fall\_ Completed 2nd Semester: Winter Completed Semester: S/S \_\_\_\_ Completed MTH 123 Trigonometry MTH 201 Calculus I \* WRT 150 Writ Strategies CHM 115 Chemistry I ^ EGR 100 Intro to Engrg EGR 106 Intro to Egr Design I 3 GE - HP GE-SBS GE - Arts Semester Semester Semester 4th Semester: Winter 3rd Semester: Fall\_\_ Semester: S/S \_\_\_\_ Completed Completed Completed \* MTH 202 Calculus II MTH 203 Calculus III \* EGR 107 Intro to Egr Design II Statistical Modeling • GE - US 220 Measure/Data Analysis 2nd GE - LS 230 Physics I % ECO 210/211 Economics Semester Semester 5th Semester: Fall Grade Completed 6th Semester: Winter Semester: S/S Completed Completed \* PHY 234/1 Physics II MTH 302 Lin Alg & DEQ EGR 290 Engrg Co-op I \* EGR 226 MicroCtrl Pgm Appl EGR 309 Machine Design I STA 216 Inter Applied Stats \* EGR 209 Mech & Mach EGR 250 Material Sci & Egr \* EGR 289 Engrg Co-op Prep EGR 214 Circuit Analysis I Semester Semester Semester 7th Semester: Fall Completed Semester: Winter Completed 8th Semester: S/S Completed Grade Grade EGR 390 Engrg Co-op II (SWS) 3 EGR 362 Thermo-Fluids EGR 345 Dvn Svs Mod EGR 367 Mfg Processes EGR 440 Production Models STA 321 App Regres Anlys EGR 441 Engrg Econ/QC/Mfg Ops = CIS 161/2 Comp Sci # GE - Issue Semester Semester Semester Completed 9th Semester: Winter \_ 10th Semester: S/S \_ Semester: Fall

EGR 485 Sr Project I

335 Data Mining

STA 426 Multivar Data Anlys 3

Info Mgt & Sci

CIS

CIS

GE - Issue

PCEC Student Services: (616)331-6025

EGR 490 Engrg Co-op III

- 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

EGR 486 Sr Project II

@ GE - P & L (PHI 102 Ethics)

IE Elec. (STA 314, EGR 641, or EGR 642)

- 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

Completed

- Completion of preparation for placement in the cooperative engineering education,

## Recommendation:

Completed

It is strongly encouraged that students do not begin or break a curriculum thread by