## Study Plan for B.S.E., PRODUCT DESIGN & MANUFACTURING ENGRG Major & BIOMED Minor

**(2016-17 Catalog)  (MTH 201 Placement - 4 Year Program)**

<table>
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<tr>
<th>Student Name:</th>
<th>Student ID#: G:</th>
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### 1st Semester: Fall _____ Credits Semester Grade Completed
- MTH 201 Calculus I 4
- WRT 150 Writ Strategies 4
- EGR 106 Intro to Egr Design I 3
- CHM 115 Chemistry I 4

### 2nd Semester: Winter _____ Credits Semester Grade Completed
- MTH 202 Calculus II 4
- PHY 230 Physics I 5
- CHM 230 Organic & Biochem 4
- EGR 107 Intro to Egr Design II 3

### 3rd Semester: Fall _____ Credits Semester Grade Completed
- MTH 203 Calculus III 4
- PHY 234/1 Physics II 4/5
- EGR 226 Intro Digital Sys 4
- EGR 209 Mech & Mach 4
- EGR 289 Engrg Co-op Prep 1

### 4th Semester: Winter _____ Credits Semester Grade Completed
- MTH 302 Lin Alg & DEQ 4
- EGR 309 Mach Design I 4
- EGR 250 Mat Sci & Engrg 4
- EGR 214 Circuit Analysis I 4

### 5th Semester: Fall _____ Credits Semester Grade Completed
- EGR 301 Fund Prod Des 4
- EGR 345 Dyn Sys Mod 4
- EGR 367 Mfg Processes 4
- GE-LS (BMS 202) 4

### 6th Semester: S/S _____ Credits Semester Grade Completed
- EGR 390 Engrg Co-op II 3
- EGR 435 MMPS 3
- EGR 394 Medical Device Design 3
- (Mathematical Modeling of Physiologic Systems)

### 7th Semester: Winter _____ Credits Semester Grade Completed
- EGR 485 Sr Project I 1
- EGR 401 Adv Prod Design 4
- EGR 450 Mfg Controls 4
- GE-Issue 3
- PDM Elec ________ 3

### 8th Semester: S/S _____ Credits Semester Grade Completed
- EGR 486 Sr Project II 2
- GE-Issue 3
- GE-P & L (PHI 102 Ethics) 3
- % ECO 210/211 Economics 3

### PCEC Student Services: (616)331-6025

- Engineering Foundation course
- Students may enroll in PHY 231 instead of PHY 234
- SOC 105 recommended (covers SBS and US)
- ANT 340 is WP and Issue. Prereq for ANT 340 is another WP or US Diversity course.
- 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 GenEd requirement.

### 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

### 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