Student:_____ SID#:_____ **INDUSTRIAL ENGINEERING**

Date of first entry:_____   Expected Graduation:_____   Advisor:_____

| FRESHMAN | SOPHOMORE | JUNIOR | SENIOR |

Prerequisite or Concurrent →

Offered Fall Semester Only

| Course# (Hrs) Course Name |
| Sem____ Grd____ |

Prerequisite →

Offered Spring Semester Only

□ AI _____   □ GP _____   □ HP _____

| COMM 105 (2) Public Speaking IA
 Sem____ Grd____ | Hum or Soc Sc (3)
 Sem____ Grd____ | Hum or Soc Sc (3)
 Sem____ Grd____ |

| ENGL 100* (3) Expos. Writ. I
 Sem____ Grd____ | ECON 110 (3) or ECON 120
 Sem____ Grd____ | ≥B | ENGL 415¹ (3) Writ Comm. 4 Engrs
 Sem____ Grd____ |

| MATH 220 (4) A.G. & Calc I
 Sem____ Grd____ | MATH 221 (4) A.G. & Calc II
 Sem____ Grd____ | MATH 222 (4) A.G. & Calc III
 Sem____ Grd____ | MATH 551 (3) Matrix Theory
 Sem____ Grd____ | IMSE 560 (3) Intro. to OR I
 Sem____ Grd____ | IMSE 660 (3) Intro. To OR II
 Sem____ Grd____ | from IMSE 250 | IMSE 633 (3) Prod Pln Inv Ctrl
 Sem____ Grd____ | IMSE 685 (3) Mfg. Info. Systems
 Sem____ Grd____ |

24 hours of IMSE courses

| IMSE 201 (3) Intro. to IE
 Sem____ Grd____ | STAT 510 (3) Prob & Stat I
 Sem____ Grd____ | STAT 511 (3) Prob & Stat II
 Sem____ Grd____ | IMSE 541 (3) Stat Quality Ctrl
 Sem____ Grd____ | IMSE 050 (0) Ind. Plant Studies
 Sem____ Grd____ | IMSE 643 (3) Ind. Simulation
 Sem____ Grd____ | IMSE 580 (4) Mfg. Systems Design and Analysis
 Sem____ Grd____ |

| CHM 210 (4) Chem. I
 Sem____ Grd____ | IMSE 250 (2) Intro. Mfg. Proc.
 Sem____ Grd____ | IMSE 530 (2) Engg. Econ. Anal.
 Sem____ Grd____ | IMSE 623 (3) Ind. Ergonomics
 Sem____ Grd____ | IMSE 555 (3) Ind. Fac. L & D
 Sem____ Grd____ | IMSE (3) Elective
 Sem____ Grd____ | IMSE (3) Elective
 Sem____ Grd____ |

| IMSE 251 (1) Mfg. Proc. (Lab)
 Sem____ Grd____ | ACCTG 231 (3) Acctg 4 Buss Opn
 Sem____ Grd____ | IMSE 532 (1) Ind. Proj. Eval.
 Sem____ Grd____ | Computer (3) Programming Elective
 Sem____ Grd____ | MANGT 420 (3) or LEAD 350
 Sem____ Grd____ | Professional (3) Elective
 Sem____ Grd____ | Professional (3) Elective
 Sem____ Grd____ |

| ME 212 (2) Engg. Graphics
 Sem____ Grd____ | PHYS 213 (5) Engg. Phys. I
 Sem____ Grd____ | PHYS 214 (5) Engg. Phys. II
 Sem____ Grd____ | Engineering (3) Elective
 Sem____ Grd____ | Engineering (3) Elective
 Sem____ Grd____ | Engineering (3) Elective
 Sem____ Grd____ | Professional (3) Elective
 Sem____ Grd____ |

| IMSE 015 (0) Engg. Assembly
 Credit (Y/N)____ | IMSE 015 (0) Engg. Assembly
 Credit (Y/N)____ | IMSE 015 (0) Engg. Assembly
 Credit (Y/N)____ | IMSE 015 (0) Engg. Assembly
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 Credit (Y/N)____ | IMSE 015 (0) Engg. Assembly
 Credit (Y/N)____ |

| (16) | (15) | (15) | (17) | (15) | (15) | (15) | (16) |

Statistics Elective: STAT 511, STAT 705, or IMSE 540
Computer Programming Elective: CIS 200, CIS 209, or ME 400
Engineering Electives: The 9 hours of basic engineering credit may not include more than 6 hours from a single department and the 9 hours must be selected from the following courses. Note, a student planning to take the FE exam is advised to take their 9 hours from classes with an *.
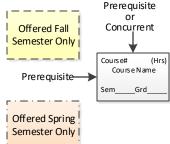BAE 345; CE 333, 530* (at most one of 333 and 530) and 533; CHE 354*, 355*,356*, 520 and 521; ECE 410, 511, 519* and 571; ME 512*, 513, 571; IMSE 562.
Professional Electives: The 9 credit hours of professional electives are designed so that the student may specialize in an area of interest. Any of the following classes may count toward the professional elective requirement. Any IMSE class; any engineering class above 300 level; any CIS class above 200 level; MATH 240 and any Mathematics class above 500 level except MATH 570 and 591; any Statistics class above 500 level except STAT 702, 703, 706 and 710; BIOL 198, BIOL 201, CHEM 230; FINAN 450, 510, 520, 520, 643, and 654; MKTG 400; ACCTG 241, 331, 342 and 433; ECON 510, 520, 530, and 540; AGEC 680, 750; any BUS class above 400 level; any LEAD class above 300 level; and any AG ECON class above 500 level; and ECON class above 300 level.

IMSE Electives: The IMSE electives must be selected from the IMSE department. Each class must also be at least 3 credit hours.
Substitutions: IMSE 501 or LEAD 350 can substitute for MANGT 420; IMSE 591 and IMSE 592 can substitute for IMSE 580. Conc. or prereq. requirement for IMSE 591 or 580 is 24 credit hours of IMSE courses of 500 level or above.
K-State 8: The courses required for a BSIE degree satisfy five of the K-State 8 areas. The student must fulfill the aesthetic interpretation (AI), global perspectives (GP), and historical perspective (HP) tags. Most students will fill these tags with their humanities, social science or professional electives.
IMSE Assembly Requirement: Each semester a student must enroll in IMSE 015 unless he/she is a concurrent B.S./M.S.I.E. student, in which case he/she must enroll in either IMSE 015 or IMSE 892.
IMSE Graduation Criterion: At most 6 credit hours of IMSE 500+ courses that earned a D may be applied to a student's B.S.I.E graduation requirements.
IMSE Course Retake Criterion: Any IMSE course being taken for the third time in any five-year period may not be used to fulfill a student's B.S.I.E. graduation requirements.
¹Prerequisite for ENGL 415 is a "B" or better in ENGL 100. ENGL 200 must be taken if ENGL 100's grade ≤ "C".

Total hours required for graduation: 124