Date of first entry: Expected Graduation: Advisor: **JUNIOR SENIOR FRESHMAN SOPHOMORE** COMM 105 (2) Hum or Soc Sc (3) Hum or Soc Sc Public Speaking. IA □ AI □ GP □ HP Grd Sem Grd ENGL 100* ECON 110 (3) ENGL 4151 ≥B Expos. Writ. I or ECON 120 Writ Comm. 4 Engrs Grd IMSF 685 IMSE 250 MATH 221 MATH 220 (4) MATH 222 (4) MATH 551 (3) IMSE 560 IMSE 660 (3) (3) IMSE 633 Mfg. Info. Systems A.G. & Calc II A G & Calc I Matrix Theory Intro. to OR I A.G. & Calc III Intro. To OR II Prod Pln Inv Ctrl Grd Sem Grd 24 hours of IMSE courses IMSE 050 IMSE 643 (3) IMSE 201 (3) STAT 510 (3) Data Analytics (3) IMSF 541 (3) (0) IMSE 580 (4) Intro. to IE Prob & Stat I Stat Quality Ctrl Ind. Plant Studies Ind. Simulation I Elective Mfg. Systems Design and Analysis Sem Grd Grd Grd Grd Grd Sem Grd CHM 210 IMSE 555 (4) IMSE 250 IMSE 530 IMSE (2) (2) IMSE 623 (3) IMSE Chem I Intro. Mfg. Proc. Engg. Econ. Anal. Ind. Ergo nomics Ind. Fac. L & D Flective Flective Grd Grd Grd Grd Sem Sem Grd ACCTG 231 MANGT 420 IMSE 251 (3) IMSE 532 (3) (3) (3) Computer Professional (3) Professional Mfg. Proc. (Lab) Acctg 4 Buss Opn Ind. Proi. Eval. or LEAD 350 Programming Elective Elective Elective Grd Grd Grd Grd Grd Grd Grd Sem Sem ME 212 **PHYS 213** PHYS 214 Professional Engineering Engineering Engineering Engg. Graphics Engg. Phys. I Engg. Phys. II Flective Flective Flective Flective Grd Grd Grd Grd Grd _Grd Sem_ Grd Sem IMSE 015 IMSE 015 IMSE 015 (0) IMSF 015 (0) IMSE 015 IMSE 015 IMSE 015 IMSE 015 Engg. Assembly Credit (Y/N) (15) (16)(15)(17)(15)(15) (15)(16)

SID#:

Data Analytics Elective: IMSE 441, STAT 511 or STAT 705 Computer Programming Elective: CIS 200, CIS 209, or ME 400

Student:

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 *.

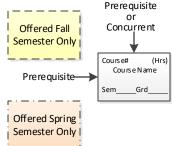
BAE 345; CE 333, 530* (at most one of 333 and 530) and 533; CHE 354*, 355*, 356*, 520 and 521; ECE 410, 511, 519* and 571; ME 512*, 513, 571; IMSE 562.

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 ≥ 300 level; any AG ECON class ≥ 500 level; any BUSINESS class ≥ 400 level; any CIS class ≥ 200 level; any ECON class ≥ 300 level; any LEAD class ≥ 300 level; MATH 240 and any Mathematics class ≥ 500 level except MATH 570 and 591; any Statistics class ≥ 500 level except STAT 702, 703, 706 and 710; ACCTG 241, 331, and 342; BIOL 198; BIOL 201; and CHEM 230.

INDUSTRIAL ENGINEERING

Effective: Spring 2021 Rev. Date 12/17/2020



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

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