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

Effective: Spring 2019
Rev. Date 06/21/2019

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

FRESHMAN | SOPHOMORE | JUNIOR | SENIOR

☐ AI _____   ☐ GP _____   ☐ HP _____

Legend:
- Offered Fall Semester Only
- Prerequisite or Concurrent
- Course# (Hrs) Course Name — Sem___ Grd___
- Prerequisite →
- Offered Spring Semester Only

FRESHMAN

- COMM 105 (2) — Public Speaking. IA — Sem___ Grd___
- ENGL 100* (3) — Expos. Writ. I — Sem___ Grd___
- MATH 220 (4) — A.G. & Calc I — Sem___ Grd___
- IMSE 201 (3) — Intro. to IE — Sem___ Grd___
- CHM 210 (4) — Chem. I — Sem___ Grd___
- ME 212 (2) — Engg. Graphics — Sem___ Grd___
- IMSE 015 (0) — Engg. Assembly — Credit (Y/N)___
- **(16)**

SOPHOMORE

- Hum or Soc Sc (3) — Sem___ Grd___
- ECON 110 (3) or ECON 120 — Sem___ Grd___
- MATH 221 (4) — A.G. & Calc II — Sem___ Grd___
- STAT 510 (3) — Prob & Stat I — Sem___ Grd___
- IMSE 250 (2) — Intro. Mfg. Proc. — Sem___ Grd___
- IMSE 251 (1) — Mfg. Proc. (Lab) — Sem___ Grd___
- PHYS 213 (5) — Engg. Phys. I — Sem___ Grd___
- IMSE 015 (0) — Engg. Assembly — Credit (Y/N)___
- **(15)**

- MATH 222 (4) — A.G. & Calc III — Sem___ Grd___
- STAT 511 (3) — Prob & Stat II — Sem___ Grd___
- IMSE 530 (2) — Engg. Econ. Anal. — Sem___ Grd___
- ACCTG 231 (3) — Acctg 4 Buss Opn — Sem___ Grd___
- PHYS 214 (5) — Engg. Phys. II — Sem___ Grd___
- IMSE 015 (0) — Engg. Assembly — Credit (Y/N)___
- **(15)**

- Hum or Soc Sc (3) — Sem___ Grd___
- MATH 551 (3) — Matrix Theory — Sem___ Grd___
- IMSE 541 (3) — Stat Quality Ctrl — Sem___ Grd___
- IMSE 623 (3) — Ind. Ergonomics — Sem___ Grd___
- IMSE 532 (1) — Ind. Proj. Eval. — Sem___ Grd___
- IMSE 015 (0) — Engg. Assembly — Credit (Y/N)___
- **(17)**

JUNIOR

- ENGL 415[1] (3) — Writ Comm. 4 Engrs — Sem___ Grd___   (≥B)
- IMSE 560 (3) — Intro. to OR I — Sem___ Grd___
- IMSE 050 (0) — Ind. Plant Studies — Sem___ Grd___
- IMSE 555 (3) — Ind. Fac. L & D — Sem___ Grd___
- Computer Programming Elective (3) — Sem___ Grd___
- Engineering Elective (3) — Sem___ Grd___
- IMSE 015 (0) — Engg. Assembly — Credit (Y/N)___
- **(15)**

- IMSE 660 (3) — Intro. To OR II — Sem___ Grd___   (from IMSE 250)
- IMSE 643 (3) — Ind. Simulation — Sem___ Grd___
- MANGT 420 (3) or LEAD 350 — Sem___ Grd___
- Engineering Elective (3) — Sem___ Grd___
- IMSE 015 (0) — Engg. Assembly — Credit (Y/N)___
- **(15)**

SENIOR

- IMSE 633 (3) — Prod Pln Inv Ctrl — Sem___ Grd___
- IMSE (3) Elective — Sem___ Grd___
- Professional Elective (3) — Sem___ Grd___
- Engineering Elective (3) — Sem___ Grd___
- IMSE 015 (0) — Engg. Assembly — Credit (Y/N)___
- **(15)**

- IMSE 685 (3) — Mfg. Info. Systems — Sem___ Grd___
- IMSE 580 (4) — Mfg. Systems Design and Analysis — Sem___ Grd___   (24 hours of IMSE courses)
- IMSE (3) Elective — Sem___ Grd___
- Professional Elective (3) — Sem___ Grd___
- Professional Elective (3) — Sem___ Grd___
- IMSE 015 (0) — Engg. Assembly — Credit (Y/N)___
- **(16)**

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.

[1]Prerequisite 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

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 *.
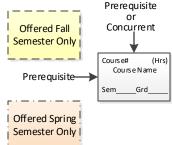BAE 345; CE 333, 530* (at most one of 333 and 530) and 533; CHE 354*, 355*, 356*, 520 and 521; ECE 410, 511, 519* and 571; ME 512*, 513, 571; IMSE 562.
Professional Electives: The 9 credit hours of professional electives are designed so that the student may specialize in an area of interest. Any of the following classes may count toward the professional elective requirement.
Any IMSE class; any engineering class ≥ 300 level; any AG ECON class ≥ 500 level; any BUS 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.