Student:_____ SID#:_____

INDUSTRIAL ENGINEERING

Effective: Spring 2019
Rev. Date 02/07/2019

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

Offered Fall Semester Only

Offered Spring Semester Only

Prerequisite or Concurrent

Prerequisite

Course# (Hrs) Course Name
Sem_____Grd_____

FRESHMAN

SOPHOMORE

JUNIOR

SENIOR

☐ AI _____ ☐ GP _____ ☐ HP _____

FRESHMAN	SOPHOMORE	JUNIOR	SENIOR
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 415[1] (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 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_____
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 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 Programming Elective (3) 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 Elective (3) 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 Credit (Y/N)_____
(16)	**(15)**	**(15)**	**(17)**

JUNIOR	SENIOR
IMSE 560 (3) Intro. to OR I Sem_____Grd_____	IMSE 685 (3) Mfg. Info. Systems Sem_____Grd_____
IMSE 660 (3) Intro. To OR II Sem_____Grd_____	from IMSE 250 → IMSE 633 (3) Prod Pln Inv Ctrl Sem_____Grd_____
IMSE 050 (0) Ind. Plant Studies Sem_____Grd_____	IMSE 643 (3) Ind. Simulation Sem_____Grd_____
IMSE 555 (3) Ind. Fac. L & D Sem_____Grd_____	IMSE (3) Elective Sem_____Grd_____
MANGT 420 (3) or LEAD 350 Sem_____Grd_____	Professional (3) Elective Sem_____Grd_____
Engineering (3) Elective Sem_____Grd_____	Engineering (3) Elective Sem_____Grd_____
IMSE 015 (0) Engg. Assembly Credit (Y/N)_____	IMSE 015 (0) Engg. Assembly Credit (Y/N)_____
(15)	**(15)**

24 hours of IMSE courses → IMSE 580 (4) Mfg. Systems Design and Analysis
Sem_____Grd_____

SENIOR
IMSE (3) Elective Sem_____Grd_____
Professional (3) Elective Sem_____Grd_____
Professional (3) Elective Sem_____Grd_____
Professional (3) Elective 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 441

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; any AG ECON class above 500 level; and ECON class above 300 level.