

## Industrial Engineering Approved Electives List

**IMSE Electives:** The IMSE electives must be selected from the IMSE department. Each class must also be at least 3 credit hours.

**Substitutions:** ECON 120 can substitute for ECON 110. LEAD 350 can substitute for MANGT 420; IMSE 591 and IMSE 592 can substitute for IMSE 580. Concurrent or prerequisite requirement for IMSE 591 or 580 is 24 credit hours of IMSE courses of 500 level or above.

**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 AG ECON class above 500 level; any BUS class above 400 level; any CIS class above 200 level; any ECON class above 300 level; any LEAD class above 300 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; ACCTG 241, 331, and 342; BIOL 198; BIOL 201; and CHEM 230.

**K-State 8:** Required courses for a BSIE degree satisfy five of the K-State 8 areas. The student must fulfill the aesthetic experience (AE), global perspective (GP), and historical perspective (HP) tags. Most students will fill these tags with their humanities, social science or professional electives. Students who complete ECON 110 will complete the GP tag as well.

**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.

<sup>1</sup> Prerequisite for ENGL 415 is a "B" or better in ENGL 100. ENGL 200 must be taken if ENGL 100's grade  $\leq$  "C".