

Bachelor of Science in Industrial Engineering (BSIE)

Suggested Plan of Study AY 2026-27

	Fall	Winter	Spring	Key Course to have Completed
Freshman	Math 220-1 Gen_Eng 150 Physics 135-1 w/ lab DTC 1	Math 220-2 Gen_Eng 231 IEMS 200 Theme	Math 228-1 Gen_Eng 241 Basic Science DTC 2	Math 220-1,2; 228-1 Gen_Eng 150; 231; 241 IEMS 200 DTC 1, 2
Sophomore	Math 228-2 COMP_SCI 217 IEMS 302 IEMS 313	IEMS 303 IEMS 294 Theme Unrestricted Elective	CIV_ENV 205 Theme IEMS 304 IE or Operations Elective	Math 228-2 IEMS 294, 302, 303, 304, 313 COMP_SCI 217 CIV_ENV 205
Junior	Operations Elective Unrestricted Elective IEMS 315 Basic Science	MS Elective IEMS 314 IEMS 317 General Tech Elective	Ethical Dev. Course Unrestricted Elective Theme IEMS 394	IEMS 314, 315, 317, 394
Senior	MS Elective General Tech Elective Theme Basic Science	General Tech Elective Unrestricted Elective Theme IE or Operations Elective	IE or Operations Elective Unrestricted Elective Theme Communications Course	

- The plan above is a suggested plan only. Fulfillment of IE degree options has a high degree of flexibility, as long as prerequisite requirements are met, and as long as key requirements are completed on schedule as indicated above.
- All students are required to meet quarterly with a department advisor. Students should take advantage of these advisor meetings to plan courses to make appropriate and satisfactory degree progress. If you are a McCormick co-op student, you are especially encouraged to meet with your advisor to plan courses to accommodate your co-op schedule.
- A note about prerequisites:
 - Prerequisite chains include IEMS 302→303→304; and IEMS 302→315→317.
 - Gen_Eng 150, 231, and 241 are needed for most core IEMS courses. Only Gen_Eng 150 and 231 are needed for IEMS 302.
 - Math 228-2 is a co-req for IEMS 302, and IEMS 303 is a co-req for IEMS 315. “Co-req” means you must have either completed the course or be concurrently enrolled.
 - IEMS 394 requires prior completion of IEMS 294, 302, 303, 304, 313, 315, 317, without exception. IEMS 314 is recommended, but not required.
- Although this is subject to change from year to year, in general:
 - IEMS 317 is offered Winter
 - IEMS 315 and Civ_Env 205 are offered Fall/Spring
 - IEMS 302, 303, 304, 313 are offered every quarter
 - CS 217 is offered Fall/Winter
 - You should plan to take IEMS 394 in Junior Spring or Senior Fall. Delay until Senior Spring requires permission from the Dir. of Undergrad Studies. The course is not offered in winter.