Industrial Engineering

Catalog Term: Fall 2022 Total credit hours: 125



FF	RESH	HMAN	
FALL	Hr	SPRING	Hr
ENGL 101 * College English I Pre-req: See Course Catalog	3	ENGL 102 * College English II Pre-req: ENGL 101 with "C" or better	3
MATH 242 Calculus I Pre-req: MATH 111 and 123 with "C" or better or MATH 112 with "C" or better	5	MATH 243 Calculus II Pre-req: MATH 242 with "C" or better	5
First-Year Seminar* Recommended: WSUE102C Community Connection Note a	3	PHYS 313 Physics for Scientist I Co-req: MATH 243 with "C" or better	4
IME 222 + IME 222L Engineering Graphics P: MATH 123 or equivalent with "C" or better	3	IME 258 + IME 258L Manufacturing Methods I P: MATH 123 & IME 222 both with "C" or better (Offered Fall and Spring only)	4
Total Hours	14	Total Hours	16

SOPHOMORE							
FALL	Hr	SPRING	Hr				
COMM 111 * Public Speaking	3	IME 255 * Engineering Economy Coreq: MATH 242	3				
IME 254 Engineering Probability and Statistics I Pre-req: MATH 243 with "C" or better (Offered Fall and Spring only)	3	IME 452 Work Systems Pre-req: IME 254 with a "C" or better Co-req: IME 255 (Offered in Spring only)	3				
PHYS 314 Physics for Scientist II Pre-req: MATH 243 with "C" or better & PHYS 313 (Offered Fall and Spring only)	4	IME 524 Engineering Probability and Statistics II Pre-req: IME 254 with "C" or better (Offered in Spring only)	3				
MATH 511 Linear Algebra Pre-req: MATH 243 with a "C" or better	3	IME 550 Operations Research I Pre-req: MATH 511 with "C" or better Co-req: IME 254 (Offered Fall and Spring only)	3				
CS 211 Intro to Program. Pre-req: MATH 111 or MIS 310 Fund. of Business App. Pre-req: Junior & Advanced standing or MATH 451 Comp. Math using MATHLAB Pre-req: MATH 243 with "C" or better	3	IME 553 Production Systems Pre-req: IME 254 with "C" or better Co-req: IME 255 (Offered Fall and Spring only)	3				
Total Hours	16	Total Hours	15				

	JUN	IOR	
FALL	Hr	SPRING	Hr
CHEM 211 + L	5	IME 549 Industrial Ergonomics	3
General Chemistry I		Pre-req: IME 254 with "C" or better	
Co-req: MATH 111		(Offered Spring only)	
IME 554	3	IME 565	3
Statistical Quality Control	٥	System Simulations	
Pre-reg: IME 254		Co-req: IME 524 & IME 553	
(Offered Fall only)		(Offered Spring only)	
IME 556	3	Technical Elective*	3
	3	Note b	3
Information Systems		Note b	
Pre-req: CS 211, MIS 310, or MATH 451 with "C" or better			
(Offered Fall only)			
IME 563	3	Technical Elective*	3
Facilities Planning		Note b	
Pre-req: IME 452, IME 550, & IME 553			
with "C" or better			
(Offered Fall only)			
IME 650	3	Technical Elective*	3
Operations Research II		Note b	
Pre-req: IME 550 with "C" or better		Note b	
(Offered Fall only)			
Engineer+ Requirement		Engineer+ Requirement	T
(1 of 3)		(2 of 3)	
See notes		See notes	
Total Hours	17	Total Hours	15

SENIOR						
FALL	Hr	SPRING	Hr			
General Education* Fine Arts Note a	3	Technical Elective* Note b	3			
General Education* Recommended: ECON 201 Principles of Micro Economics	3	Technical Elective* Note b	3			
PHIL 385* Engineering Ethics Pre-req: Junior or senior standing	3	Technical Elective* Note b	2			
IME 590 Industrial Engineering Design I Pre-req: IME 553 with "C" or better and Department Consent (Offered Fall and Spring only)	3	IME 690 Industrial Engineering Design II Pre-req: IME 590 with "C" or better and Department Consent (Offered Fall and Spring only)	3			
Technical Elective* Note b	3	Math & Science Elective* Note b	3			
Technical Elective* Note b	3	Engineer+ Requirement (3 of 3) See notes Total Hours				
Total Hours	18	lotal Hours	14			

Notes: Students admitted after fall 2007 must fulfill the Engineer+ requirements.

Last Updated: 2/14/2022

Non-IME technical elective courses: ACCT 210, ACCT 220, ACCT 310, ACCT 420, ACCT 430, ECON 201, ECON 202, BLAW 431, ECON 660, ENTR 310, ENTR 440, ENTR 605, ENTR 705, IB 333, MGMT 360, MGMT 450, MGMT 462, MGMT 463, MGMT 662

Manufacturing Minor, 12 credits: IME 222+L, IME 258, AE 333, IME 558, IME 561, IME

625. IME 676. IME 761. IME 762. IME 780AM. ME 250. ME 251, ME 672. 1 course must be unduplicated from major requirements. Required minimum 2.250 GPA.

^{*} May be available as an online or hybrid class.

a. Courses must be from approved general education list which appears in the Schedule of Courses and/or the community college Transfer Guides. FYS options exclude C5 attribute. Social/Behavioral Science (B5) recommended courses are ID300, ID301, ENTR310, ECON201. Fine Arts (A3) - recommended course is ARTE303.

b. There are three tracks from which the stdents may take technical electives. At least three of the technical elective courses must be from the same track.

Track 1 - Manufacturing: IME 561, IME 761, IME 558, ME 250/ME 251, ME 672, IME 676, IME 775, IME 758, IME 767, IME 788

Track 2 - Supply Chain & Analytics: IME 664, IME 734, IME 753, IME 754, IME 755, IME 780AN, IME 783, IB 400 or DS 625

Track 3 - Systems Engineering: IME 664, IME 749, IME 759, IME 755, IME 764, IME 767, IME 740, MGMT 460, MIS 600, MIS 605

