

MANUFACTURE ENGINEERING

Catalog Term: Fall 2015



FRESHMAN	
FALL	SPRING
ENGL 101 (3) College English I P: See Course Catalog	ENGL 102 (3) College English II P: ENGL 101 with grade C or better
MATH 242 (5) Calculus I P: See Course Catalog	MATH 243 (5) Calculus II P: MATH 242 with C or better
CHEM 211 (5) General Chemistry I	PHYS 313 (4) Physics for Scientist I Coreq: MATH 243 with a grade of C or better
IME 258 (3) Manufacturing Methods I Offered Fall Only P: MATH 123	ME 250 (3) Materials Engineering P: CHEM 211/MATH 242 all with grade of C or better
	ME 251 (1) Materials Engineering Laboratory Coreq: ME 250

SOPHOMORE	
FALL	SPRING
COMM 111 (3) Public Speaking	General Education H/FA/S&BSc (3) Note b
MATH 344 (3) Calculus III P: Math 243 with grade C or better	MATH 555 (3) Differential Equations I P: MATH 243 with grade C or better
AE 223 (3) Statics P: PHYS 313 Coreq: MATH243	PHYS 314 (4) Physics for Scientist II P: MATH 243 with grade C or better/ PHYS 313
IME 222 (3) Engineering Graphics Offered Fall/Spring/Summer P: Math 123 or equivalent	IME 255 (3) Engineering Economy Offered Summer/Fall/Spring Coreq: MATH 242
IME 254 (3) Engineering Probability & Statistics I Offered Fall/Spring P: MATH 243	AE 333 (3) Mechanics of Materials P: AE 223 with grade of C or better Coreq: MATH 344
Engineer of 2020 Requirement (1 of 3) See notes	EE 282 (4) Circuits I Coreq: MATH 243

JUNIOR	
FALL	SPRING
PHIL 385 (3) Engineering Ethics P: Junior or senior standing	General Education H/FA/S&BSc (3) Note b
IME 361/ENGT 361 Industrial Controls and Auto Offered Fall P: EE 282	ME 325 (3) Computer Applications Offered Spring Coreq: MATH 243
IME 553 (3) Production Systems P: IME 254 Coreq: IME 255 with grade of C or better	ME 439 (3) Mechanical Engineering Design I Offered Spring P: MATH 555/ME 250/AE 333 all with grade of C or better
IME 576 (3) Composites Manufacturing Offered Fall Only P: AE 333	IME 524 (3) Engineering Probability & Statistics II Offered Spring P: IME 254 with grade of C or better
IME 664 (3) Engineering Management P: IME 254/IME 255 with grade of C or better	IME 558 (4) Manufacturing Methods II P: IME 258/ME 250 with grade of C or better
Engineer of 2020 Requirement (2 of 3) See notes	Engineer of 2020 Requirement (3 of 3) See notes

SENIOR	
FALL	SPRING
General Education H/FA/S&BSc (3) Note b	General Education H/FA/S&BSc (3) Note b
ME 398 (3) Thermodynamics I P: MATH 243/PHYS 313 all with grade of C or better	General Education H/FA/S&BSc (3) Note b
IME 676 (3) Aircraft Manufacturing & As- sembly Offered Summer P: IME 258	ME 637 (3) Computer-Aided Engr Coreq: ME 339 OR ME 639 (3) Finite Element Methods OR IME 410/ENGT410 Robotics Tech P: See catalog with C or better
Technical Elective (3) Note a	IME 590 (3) Industrial Engineering Design I Offered Fall/Spring Note c
Technical Elective (3) Note a	IME 554 (3) Statistical Quality Control Offered Spring Coreq: IME 524
Technical Elective (3) Note a	Technical Elective (3) Note a

Notes: Students admitted after fall 2007 must fulfill the Engineer 2020 requirements. Prerequisites for all ME, IME courses must be passed with a grade that generates C or better. a. At least six must be from the IME Department and the rest from an approved list. b. Humanities/Fine Arts/Social & Behavioral Science Courses must be from an approved list which appears in the Schedule of Courses. c. Student must be within one year of graduation, and departmental consent. P: Prerequisite