

MECHANICAL ENGINEERING



Catalog Term: Fall 2018

Total credit hours: 128

Last Updated: 4/2018

FRESHMAN				SOPHOMORE			
FALL	Hr	SPRING	Hr	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	COMM 111 Public Speaking	3	General Education H/FA/S&BS See note a.	3
MATH 242 Calculus I Pre-req: See Course Catalog	5	MATH 243 Calculus II Pre-req: MATH 242 with "C" or better	5	MATH 344 Calculus III Pre-req: MATH 243 with "C" or better	3	MATH 555 Differential Equations I Pre-req: MATH 243 with "C" or better	3
CHEM 211 General Chemistry I Co-req: See Course Catalog	5	PHYS 313 Physics for Scientist I Co-req: MATH 243 with "C" or better	4	PHYS 314 Physics for Scientist II Pre-req: MATH 243 and PHYS 313 with "C" or better	4	ME 398 Thermodynamics I Pre-req: MATH 243 and PHYS 313 with "C" or better	3
IME 222 Engineering Graphics Pre-req: MATH 123 or Equivalent with "C" or better	2	PHYS 315 Physics I Lab Pre-req: MATH242 Co-req: PHYS 313 with "C" or better	1	ME 250 Materials Engineering Pre-req: CHEM 211 and MATH 242 with "C" or better	3	ME 325 Numerical Methods Pre-req: MATH 243 and PHYS 313 with "C" or better	3
IME 222L Engineering Graphics Lab Pre-req: MATH 123 or Equivalent with "C" or better Co-req: IME 222	1	General Education H/FA/S&BS See note a.	3	ME 251 Materials Engineering Lab Co-req: ME 250 with "C" or better	1	AE 333 Mechanics of Materials Pre-req: AE 223 Co-req: MATH 344 with "C" or better	3
		Engineer of 2020 Requirement (1 of 3) See note b.		AE 223 Statics Pre-req: PHYS 313 Co-req: MATH 243 with "C" or better	3	ME 335 Dynamics for Mechanical Engineers Pre-req: AE 223 and MATH 344 with "C" or better	3
Total Hours	16	Total Hours	16	Total Hours	17	Total Hours	18
JUNIOR				SENIOR			
FALL	Hr	SPRING	Hr	FALL	Hr	SPRING	Hr
PHIL 385 Engineering Ethics Junior or senior standing	3	General Education H/FA/S&BS See note a.	3	General Education H/FA/S&BS See note a.	3	General Education H/FA/S&BS See note a.	3
EE 282 and EE 282L Circuits I Co-req: MATH 243 with "C" or better	4	ME439 Mechanical Engineering Design I Pre-req: ME 250, ME 251, AE 333, and MATH 555 with "C" or better	3	ME 633 Mechanical Systems Lab Pre-req: ME 522 and ME 533 with "C" or better	3	General Education Natural Science Elective See note a.	3
ME 339 Design of Machinery Pre-req: IME 222 Coreq: ME 335 with "C" or better	3	ME 522 Heat Transfer Pre-req: ME 325, ME 521, and PHYS 314 with "C" or better	3	ME 659 Mechanical Control Systems Pre-req: EE 282 and MATH 555, or EE 383	3	ME 662 Senior Capstone Design Pre-req: ME 339, ME 439, ME 522 Co-req: ME 633 and ME 659 (LAST SEMESTER ONLY)	3
ME 521 Fluid Mechanics Pre-req: ME 398, MATH 555, ME 335 with "C" or better	3	ME 533 Mechanical Engr. Lab Pre-req: AE 333, EE 282, ME 325, ENGL 102, COMM 111, PHYS 315 Co-req: ME 522 with "C" or better	3	Thermal design Elective See note c.	3	Mechanical Elective See note c.	3
IME 258 Manufacturing Methods and Materials I Pre-req: MATH 123	3	Technical Elective See note c.	3	Mechanical Design Elective See note c.	3		
Engineer of 2020 Requirement (2 of 3) See note b		Thermal Elective See note c.	3	Engineer of 2020 Requirement (3 of 3) See note b			
Total Hours	16	Total Hours	18	Total Hours	15	Total Hours	12

ALL MAJOR COURSES & PREREQUISITE COURSES NEED TO BE WITH A "C" OR BETTER. Notes: a. General Education Courses must be from an approved list b. Students admitted after Fall 2007 must fulfill the ENG2020 requirement approved by advisor . c. Check with Advisor for elective courses, CoE, LAS, Business and COOP/Internship courses **Can be taken concurrently with the course.