MECHANICAL ENGINEERING



Catalog Term: Fall 2018 Total credit hours: 128 Last Updated: 4/2018

FRES	_					1ORE
FALL	Hr	SPRING	Hr	FALL	Hr	SPRING
ENGL 101	3	ENGL 102	3	COMM 111	3	General Education
College English I		College English II		Public Speaking		H/FA/S&BS
Pre-req: See Course Catalog		Pre-reg: ENGL 101				See note a.
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MATH 242	5	MATH 243	5	MATH 344	3	MATH 555
Calculus I		Calculus II		Calculus III		Differential Equations I
Pre-req: See Course Catalog		Pre-req: MATH 242		Pre-req: MATH 243		Pre-req: MATH 243
		with "C" or better		with "C" or better		with "C" or better
	5	PHYS 313	4	PHYS 314	4	ME 398
CHEM 211		Physics for Scientist I		Physics for Scientist II		Thermodynamics I
General Chemistry I		· ·		· · · · · · · · · · · · · · · · · · ·		Pre-reg: MATH 243 and PHYS 313
Co-req: See Course Catalog		Co-req: MATH 243		Pre-req: MATH 243 and PHYS 313		· · · · · · · · · · · · · · · · · · ·
		with "C" or better		with "C" or better		with "C" or better
IME 222	2	PHYS 315	1	ME 250	3	ME 325
Engineering Graphics	_			Materials Engineering		Numerical Methods
Pre-req: MATH 123 or Equivalent		Physics I Lab		Pre-req: CHEM 211 and		Pre-reg: MATH 243 and PHYS 313
with "C" or better		Pre-req: MATH242		MATH 242 with "C" or better		with "C" or better
with C of better		Co-req: PHYS 313		MATH 242 With C of better		with e of better
1845 2221	\vdash	with "C" or better	3	245 254	1	AE 333
IME 222L	1	General Education	3	ME 251	1	
Engineering Graphics Lab		H/FA/S&BS		Materials Engineering Lab		Mechanics of Materials
Pre-req: MATH 123 or Equivalent		See note a.		Co-req: ME 250		Pre-rq: AE 223
with "C" or better Co-req: IME 222				with "C" or better		Co-req: MATH 344
	-	5 : 60000	Н	45.000	2	with "C" better
		Engineer of 2020		AE 223	3	ME 335
		Requirement (1 of 3)		Statics		Dynamics for Mechanical
		See note b.		Pre-req: PHYS 313		Engineers
				Co-req: MATH 243		Pre-req: AE 223 and MATH 344
				with "C" or better		with "C" or better
Total Hours	16	Total Hours	16	Total Hours	17	Total Hours
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		SPRING	Hr	FALL	Hr	SPRING
FALL	Hr 3		Hr 3		Hr 3	
FALL PHIL 385	Hr	General Education		General Education	_	General Education
FALL PHIL 385 Engineering Ethics	Hr	General Education H/FA/S&BS		General Education H/FA/S&BS	_	General Education H/FA/S&BS
FALL PHIL 385	Hr	General Education		General Education	_	General Education
FALL PHIL 385 Engineering Ethics Junior or senior standing	Hr 3	General Education H/FA/S&BS	3	General Education H/FA/S&BS See note a.	3	General Education H/FA/S&BS
FALL PHIL 385 Engineering Ethics	Hr	General Education H/FA/S&BS		General Education H/FA/S&BS See note a. ME 633	_	General Education H/FA/S&BS See note a.
FALL PHIL 385 Engineering Ethics Junior or senior standing	Hr 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. General Education
FALL PHIL 385 Engineering Ethics Junior or senior standing EE 282 and EE 282L	Hr 3	General Education H/FA/S&BS See note a. ME 439 Mechanical Engineering Design I	3	General Education H/FA/S&BS See note a. ME 633	3	General Education H/FA/S&BS See note a. General Education Natural Science Elective
FALL PHIL 385 Engineering Ethics Junior or senior standing EE 282 and EE 282L Circuits I	Hr 3	General Education H/FA/S&BS See note a. ME 439 Mechanical Engineering Design I Pre-req: ME 250, ME 251,	3	General Education H/FA/S&BS See note a. ME 633 Mechanical Systems Lab	3	General Education H/FA/S&BS See note a. General Education
FALL PHIL 385 Engineering Ethics Junior or senior standing EE 282 and EE 282L Circuits I Co-req: MATH 243	Hr 3	General Education H/FA/S&BS See note a. ME 439 Mechanical Engineering Design I	3	General Education H/FA/S&BS See note a. ME 633 Mechanical Systems Lab Pre-req: ME 522 and ME 533	3	General Education H/FA/S&BS See note a. General Education Natural Science Elective
FALL PHIL 385 Engineering Ethics Junior or senior standing EE 282 and EE 282L Circuits I Co-req: MATH 243	Hr 3	General Education H/FA/S&BS See note a. ME 439 Mechanical Engineering Design I Pre-req: ME 250, ME 251, AE 333, and MATH 555 with "C" or better	3	General Education H/FA/S&BS See note a. ME 633 Mechanical Systems Lab Pre-req: ME 522 and ME 533 with "C" or better	3	General Education H/FA/S&BS See note a. General Education Natural Science Elective
FALL PHIL 385 Engineering Ethics Junior or senior standing EE 282 and EE 282L Circuits I Co-req: MATH 243 with "C"or better ME 339	4 4	General Education H/FA/S&BS See note a. ME 439 Mechanical Engineering Design I Pre-req: ME 250, ME 251, AE 333, and MATH 555 with "C" or better ME 522	3	General Education H/FA/S&BS See note a. ME 633 Mechanical Systems Lab Pre-req: ME 522 and ME 533 with "C" or better ME 659	3	General Education H/FA/S&BS See note a. General Education Natural Science Elective See note a. ME 662
FALL PHIL 385 Engineering Ethics Junior or senior standing EE 282 and EE 282L Circuits I Co-req: MATH 243 with "C"or better ME 339 Design of Machinery	4 4	General Education H/FA/S&BS See note a. ME 439 Mechanical Engineering Design I Pre-req: ME 250, ME 251, AE 333, and MATH 555 with "C" or better ME 522 Heat Transfer	3	General Education H/FA/S&BS See note a. ME 633 Mechanical Systems Lab Pre-req: ME 522 and ME 533 with "C" or better	3	General Education H/FA/S&BS See note a. General Education Natural Science Elective See note a. ME 662 Senior Capstone Design
FALL PHIL 385 Engineering Ethics Junior or senior standing EE 282 and EE 282L Circuits I Co-req: MATH 243 with "C"or better ME 339 Design of Machinery Pre-req: IME 222	4 4	General Education H/FA/S&BS See note a. ME 439 Mechanical Engineering Design I Pre-req: ME 250, ME 251, AE 333, and MATH 555 with "C" or better ME 522 Heat Transfer Pre-req: ME 325, ME 521, and PHYS 314	3	General Education H/FA/S&BS See note a. ME 633 Mechanical Systems Lab Pre-req: ME 522 and ME 533 with "C" or better ME 659	3	General Education H/FA/S&BS See note a. General Education Natural Science Elective See note a. ME 662 Senior Capstone Design Pre-req: ME 339, ME 439, ME 522
FALL PHIL 385 Engineering Ethics Junior or senior standing EE 282 and EE 282L Circuits I Co-req: MATH 243 with "C"or better ME 339 Design of Machinery Pre-req: IME 222 Coreq: ME 335	4 4	General Education H/FA/S&BS See note a. ME 439 Mechanical Engineering Design I Pre-req: ME 250, ME 251, AE 333, and MATH 555 with "C" or better ME 522 Heat Transfer Pre-req: ME 325, ME 521, and	3	General Education H/FA/S&BS See note a. ME 633 Mechanical Systems Lab Pre-req: ME 522 and ME 533 with "C" or better ME 659 Mechanical Control Systems	3	General Education H/FA/S&BS See note a. General Education Natural Science Elective See note a. ME 662 Senior Capstone Design Pre-req: ME 339, ME 439, ME 522 Co-req: ME 633 and ME 659
FALL PHIL 385 Engineering Ethics Junior or senior standing EE 282 and EE 282L Circuits I Co-req: MATH 243 with "C"or better ME 339 Design of Machinery Pre-req: IME 222 Coreq: ME 335 with "C" or better	4 3	General Education H/FA/S&BS See note a. ME 439 Mechanical Engineering Design I Pre-req: ME 250, ME 251, AE 333, and MATH 555 with "C" or better ME 522 Heat Transfer Pre-req: ME 325, ME 521, and PHYS 314	3	General Education H/FA/S&BS See note a. ME 633 Mechanical Systems Lab Pre-req: ME 522 and ME 533 with "C" or better ME 659 Mechanical Control Systems Pre-req: EE 282 and MATH 555, or	3	General Education H/FA/S&BS See note a. General Education Natural Science Elective See note a. ME 662 Senior Capstone Design Pre-req: ME 339, ME 439, ME 522
FALL PHIL 385 Engineering Ethics Junior or senior standing EE 282 and EE 282L Circuits I Co-req: MATH 243 with "C"or better ME 339 Design of Machinery Pre-req: IME 222 Coreq: ME 335 with "C" or better ME 521	4 4	General Education H/FA/S&BS See note a. ME 439 Mechanical Engineering Design I Pre-req: ME 250, ME 251, AE 333, and MATH 555 with "C" or better ME 522 Heat Transfer Pre-req: ME 325, ME 521, and PHYS 314 with "C" or better ME 533	3	General Education H/FA/S&BS See note a. ME 633 Mechanical Systems Lab Pre-req: ME 522 and ME 533 with "C" or better ME 659 Mechanical Control Systems Pre-req: EE 282 and MATH 555, or EE 383	3	General Education H/FA/S&BS See note a. General Education Natural Science Elective See note a. ME 662 Senior Capstone Design Pre-req: ME 339, ME 439, ME 522 Co-req: ME 633 and ME 659 (LAST SEMESTER ONLY)
FALL PHIL 385 Engineering Ethics Junior or senior standing EE 282 and EE 282L Circuits I Co-req: MATH 243 with "C"or better ME 339 Design of Machinery Pre-req: IME 222 Coreq: ME 335 with "C" or better	4 3	General Education H/FA/S&BS See note a. ME 439 Mechanical Engineering Design I Pre-req: ME 250, ME 251, AE 333, and MATH 555 with "C" or better ME 522 Heat Transfer Pre-req: ME 325, ME 521, and PHYS 314 with "C" or better ME 533 Mechanical Engr. Lab	3	General Education H/FA/S&BS See note a. ME 633 Mechanical Systems Lab Pre-req: ME 522 and ME 533 with "C" or better ME 659 Mechanical Control Systems Pre-req: EE 282 and MATH 555, or EE 383 Thermal design Elective	3	General Education H/FA/S&BS See note a. General Education Natural Science Elective See note a. ME 662 Senior Capstone Design Pre-req: ME 339, ME 439, ME 522 Co-req: ME 633 and ME 659 (LAST SEMESTER ONLY) Mechanical Elective
FALL PHIL 385 Engineering Ethics Junior or senior standing EE 282 and EE 282L Circuits I Co-req: MATH 243 with "C"or better ME 339 Design of Machinery Pre-req: IME 222 Coreq: ME 335 with "C" or better ME 521	4 3	General Education H/FA/S&BS See note a. ME 439 Mechanical Engineering Design I Pre-req: ME 250, ME 251, AE 333, and MATH 555 with "C" or better ME 522 Heat Transfer Pre-req: ME 325, ME 521, and PHYS 314 with "C" or better ME 533 Mechanical Engr. Lab Pre-req: AE 333, EE 282, ME 325,	3	General Education H/FA/S&BS See note a. ME 633 Mechanical Systems Lab Pre-req: ME 522 and ME 533 with "C" or better ME 659 Mechanical Control Systems Pre-req: EE 282 and MATH 555, or EE 383	3	General Education H/FA/S&BS See note a. General Education Natural Science Elective See note a. ME 662 Senior Capstone Design Pre-req: ME 339, ME 439, ME 522 Co-req: ME 633 and ME 659 (LAST SEMESTER ONLY)
FALL PHIL 385 Engineering Ethics Junior or senior standing EE 282 and EE 282L Circuits I Co-req: MATH 243 with "C"or better ME 339 Design of Machinery Pre-req: IME 222 Coreq: ME 335 with "C" or better ME 521 Fluid Mechanics	4 3	General Education H/FA/S&BS See note a. ME 439 Mechanical Engineering Design I Pre-req: ME 250, ME 251, AE 333, and MATH 555 with "C" or better ME 522 Heat Transfer Pre-req: ME 325, ME 521, and PHYS 314 with "C" or better ME 533 Mechanical Engr. Lab Pre-req: AE 333, EE 282, ME 325, ENGL 102, COMM 111, PHYS 315 CO-req: ME 522	3	General Education H/FA/S&BS See note a. ME 633 Mechanical Systems Lab Pre-req: ME 522 and ME 533 with "C" or better ME 659 Mechanical Control Systems Pre-req: EE 282 and MATH 555, or EE 383 Thermal design Elective	3	General Education H/FA/S&BS See note a. General Education Natural Science Elective See note a. ME 662 Senior Capstone Design Pre-req: ME 339, ME 439, ME 522 Co-req: ME 633 and ME 659 (LAST SEMESTER ONLY) Mechanical Elective
FALL PHIL 385 Engineering Ethics Junior or senior standing EE 282 and EE 282L Circuits I Co-req: MATH 243 with "C"or better ME 339 Design of Machinery Pre-req: IME 222 Coreq: ME 335 with "C" or better ME 521 Fluid Mechanics Pre-req: ME 398, MATH 555, ME 335	4 3	General Education H/FA/S&BS See note a. ME 439 Mechanical Engineering Design I Pre-req: ME 250, ME 251, AE 333, and MATH 555 with "C" or better ME 522 Heat Transfer Pre-req: ME 325, ME 521, and PHYS 314 with "C" or better ME 533 Mechanical Engr. Lab Pre-req: AE 333, EE 282, ME 325, ENGL 102, COMM 111, PHYS 315	3	General Education H/FA/S&BS See note a. ME 633 Mechanical Systems Lab Pre-req: ME 522 and ME 533 with "C" or better ME 659 Mechanical Control Systems Pre-req: EE 282 and MATH 555, or EE 383 Thermal design Elective	3	General Education H/FA/S&BS See note a. General Education Natural Science Elective See note a. ME 662 Senior Capstone Design Pre-req: ME 339, ME 439, ME 522 Co-req: ME 633 and ME 659 (LAST SEMESTER ONLY) Mechanical Elective
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FALL PHIL 385 Engineering Ethics Junior or senior standing EE 282 and EE 282L Circuits I Co-req: MATH 243 with "C"or better ME 339 Design of Machinery Pre-req: IME 222 Coreq: ME 335 with "C" or better ME 521 Fluid Mechanics Pre-req: ME 398, MATH 555, ME 335 with "C" or better IME 258 Manufacturing Methods and	4 3 3	General Education H/FA/S&BS See note a. ME 439 Mechanical Engineering Design I Pre-req: ME 250, ME 251, AE 333, and MATH 555 with "C" or better ME 522 Heat Transfer Pre-req: ME 325, ME 521, and PHYS 314 with "C" or better 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 Technical Elective	3 3	General Education H/FA/S&BS See note a. ME 633 Mechanical Systems Lab Pre-req: ME 522 and ME 533 with "C" or better ME 659 Mechanical Control Systems Pre-req: EE 282 and MATH 555, or EE 383 Thermal design Elective See note c.	3 3	General Education H/FA/S&BS See note a. General Education Natural Science Elective See note a. ME 662 Senior Capstone Design Pre-req: ME 339, ME 439, ME 522 Co-req: ME 633 and ME 659 (LAST SEMESTER ONLY) Mechanical Elective
FALL PHIL 385 Engineering Ethics Junior or senior standing EE 282 and EE 282L Circuits I Co-req: MATH 243 with "C"or better ME 339 Design of Machinery Pre-req: IME 222 Coreq: ME 335 with "C" or better ME 521 Fluid Mechanics Pre-req: ME 398, MATH 555, ME 335 with "C" or better IME 258 Manufacturing Methods and Materials I	4 3 3	General Education H/FA/S&BS See note a. ME 439 Mechanical Engineering Design I Pre-req: ME 250, ME 251, AE 333, and MATH 555 with "C" or better ME 522 Heat Transfer Pre-req: ME 325, ME 521, and PHYS 314 with "C" or better 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 Technical Elective See note c.	3 3	General Education H/FA/S&BS See note a. ME 633 Mechanical Systems Lab Pre-req: ME 522 and ME 533 with "C" or better ME 659 Mechanical Control Systems Pre-req: EE 282 and MATH 555, or EE 383 Thermal design Elective See note c.	3 3	General Education H/FA/S&BS See note a. General Education Natural Science Elective See note a. ME 662 Senior Capstone Design Pre-req: ME 339, ME 439, ME 522 Co-req: ME 633 and ME 659 (LAST SEMESTER ONLY) Mechanical Elective
FALL PHIL 385 Engineering Ethics Junior or senior standing EE 282 and EE 282L Circuits I Co-req: MATH 243 with "C"or better ME 339 Design of Machinery Pre-req: IME 222 Coreq: ME 335 with "C" or better ME 521 Fluid Mechanics Pre-req: ME 398, MATH 555, ME 335 with "C" or better IME 258 Manufacturing Methods and Materials I Pre-req: MATH 123	4 3 3	General Education H/FA/S&BS See note a. ME 439 Mechanical Engineering Design I Pre-req: ME 250, ME 251, AE 333, and MATH 555 with "C" or better ME 522 Heat Transfer Pre-req: ME 325, ME 521, and PHYS 314 with "C" or better 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 Technical Elective	3 3	General Education H/FA/S&BS See note a. ME 633 Mechanical Systems Lab Pre-req: ME 522 and ME 533 with "C" or better ME 659 Mechanical Control Systems Pre-req: EE 282 and MATH 555, or EE 383 Thermal design Elective See note c. Mechanical Design Elective See note c.	3 3	General Education H/FA/S&BS See note a. General Education Natural Science Elective See note a. ME 662 Senior Capstone Design Pre-req: ME 339, ME 439, ME 522 Co-req: ME 633 and ME 659 (LAST SEMESTER ONLY) Mechanical Elective

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.