

BS Mechanical Engineering for Fall of 2016

MATH151	Calculus I	4	MATH152	Calculus II	4
EGME141	Solid Modeling	3	CHEM115	General Chemistry I	5
EGNR101	Intro. to Engineering	2	EGME110	Manufacturing Processes I	3
ENGL110	First Year Composition I	3	EGNR140	Linear Algebra & Numerical Applns for Engineers	2
	Diversity Elective	3	ENGL111	First Year Composition II	3
2016	TOTAL	15	2017	17	32
MATH251	Calculus III	4	MATH310	Differential Equations	3
PHYS231	Appl. Physics for Eng. and Sci. I	4	PHYS232	Appl. Physics for Eng. And Sci. II	4
EGNR265	"C" Programming	3	EGME225	Mechanics of Materials	3
EGEM220	Statics	3	EGME275	Engineering Materials	3
	Social Sci / Humn / Comm	3	EGME276	Strength of Materials Lab	1
				Technical Elective	3
2017	TOTAL	17	2018	17	34
MATH308	Probability and Math. Statistics	3		Social Sci / Humn / Comm	3 - 4
EGEM320	Dynamics	3	EGME337	Thermodynamics	4
EGME350	Machine Design	4	EGME338	Fluid Mechanics	3
EGEE210	Circuit Analysis	4		Technical Elective(s)	5 - 7
EGNR340	Numerical Methods for Engineers	1			
	Technical Elective	0 - 2			
2018	TOTAL	15 - 17	2019	15 - 17	32
	Senior Sequence I	3		Senior Sequence II	3
	Technical Elective(s)	4		Technical Elective(s)	3 - 4
EGME431	Heat Transfer	3		Social Sci / Humn / Comm	3
EGME432	Thermal-Fluids Lab	2		Social Sci / Humn / Comm	3
EGRS460	Control Systems	4		Social Sci / Humn / Comm	3 - 4
2019	TOTAL	16	2020	16 - 17	32

129 - 130

VEHICLE SYSTEMS CONCENTRATION, REQUIRED TECHNICAL ELECTIVES (18 cr)

EGME240 Assembly Modeling and GD&T	3 (Spring)	EGME310 Vehicle Development and Testing	2 (Fall even yrs)
EGME415 Vehicle Dynamics	2 (Spring odd yrs)	EGME425 Vibrations and Noise Control	4 (Spring even yrs)
EGEE280 Introduction to Signal Processing	4 (Fall)	EGNR362 Vehicle Energy Systems	3 (Spring odd yrs)

ROBOTICS AND AUTOMATION CONCENTRATION, REQUIRED TECHNICAL ELECTIVES (17 - 18 cr)

EGRS365 Programmable Logic Controllers	3 (Spring)	EGRS385 Robotics Engineering	4 (Spring)
EGRS430 Systems Integration & Mach. Vision	4 (Fall)	EGRS435 Automated Manufacturing Systems	3 (Spring)
One of the following: EGME240	3 (Spring) <i>or</i>	EGNR310	3 (Fall odd yrs) <i>or</i>
		EGMT216	3 (Spring) <i>or</i>
		EGEE280	4 (Fall)

GENERAL CONCENTRATION, REQUIRED TECHNICAL ELECTIVES (17 cr)

EGME240 Assembly Modeling and GD&T (Spring)		3
<i>and</i>		
9 total credits combined from any of the following: EGNR261 (Fall), EGNR361 (Fall odd yrs), and all 300/400 level technical elective courses allowed in the other concentrations (Vehicle Systems and Robotics & Automation, see above).		9
<i>and</i>		
5 total credits of 400-level technical electives from the other concentrations (<i>not</i> also counted in preceding 9-cr requirement)		5

SENIOR SEQUENCE: SELECT ONE PATH

<i>Industrial Project</i>	<i>Co-op Project</i>	<i>Research Project</i>			
EGNR491 Engineering Design Project I	3	EGNR450 Cooperative Education Project I	4	EGNR260 Engineering Research Methods	2
EGNR495 Engineering Design Project II	3	EGNR450 Cooperative Education Project II	3	EGNR460 Engineering Research Project I	4
		EGNR491 Engineering Design Project I	3	EGNR461 Engineering Research Project II	2