

## BS Mechanical Engineering for Fall of 2007

MATH151	Calculus I	4	MATH152	Calculus II	4
EGME141	Solid Modeling	3	CHEM115	General Chemistry I	5
EGME110	Manufacturing Processes I	3		Social Science Diversity	3
EGNR101	Intro. to Engineering	2	ENGL111	First Year Composition II	3
ENGL110	First Year Composition I	3	EGNR140	Linear Algebra and Numerical Methods for Engineers	2
<b>TOTAL</b>		<b>15</b>			<b>17</b>

MATH251	Calculus III	4	COMM101	Fund. of Speech Communication	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 Science	3	EGME276	Strength of Materials Lab	1
				Technical Option Elective	3
<b>TOTAL</b>		<b>17</b>			<b>17</b>

MATH310	Differential Equations	3	MATH308	Probability and Math. Statistics	3
EGEM320	Dynamics	4	EGME337	Thermodynamics	4
EGME350	Mechanical Engineering Design	4	EGME338	Fluid Mechanics	2
EGEE210	Circuit Analysis	4	EGME339	Fundamentals of Fluid Mechanics	1
EGNR340	Adv. Num. Methods for Engineers	1	EGEE305	Analog and Digital Electronics	3
				Technical Option Elective	3/4
<b>TOTAL</b>		<b>16</b>			<b>16/17</b>

	Senior Sequence I	3		Senior Sequence II	3
	Technical Option Elective	3/4		Technical Option Elective	4
EGME431	Heat Transfer	3		Humanities	3
EGME432	Thermal-Fluids Lab	1		Social Science	3
EGRS460	Control Systems	4	HUMN251	Humanities I	4
<b>TOTAL</b>		<b>14/15</b>			<b>17</b>

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**VEHICLE SYSTEMS OPTION REQUIRED TECHNICAL ELECTIVES**

EGME240 Assembly Modeling and GD&T	3	EGME410 Vehicle Development and Testing	1.5
EGME411 Vehicle Dynamics	1.5	EGME425 Vibrations and Noise Control	4
EGME442 Finite Element Analysis	4		

**ROBOTICS AND AUTOMATION OPTION REQUIRED TECHNICAL ELECTIVES**

EGRS365 Programmable Logic Controllers	3	EGRS385 Robotics Engineering	3
EGRS430 Systems Integration & Mach. Vision	4	EGRS435 Automated Manufacturing Systems	4

**GENERAL OPTION REQUIRED TECHNICAL ELECTIVES**

EGME240 Assembly Modeling and GD&T	3	EGRS365 Programmable Logic Controllers	3
300 or 400 Level Vehicle Systems or Robotics and Automation Technical Option Courses			6
400 Level Vehicle Systems or Robotics and Automation Technical Option Course			4

**SENIOR SEQUENCE: SELECT ONE AREA**

<i>Industrial Project</i>	<i>Co-op Project</i>	<i>Research Project</i>
EGNR491 Engineering Design Project I 3	EGNR250 Cooperative Education I 2	EGNR260 Engineering Research Methods 2
EGNR495 Engineering Design Project II 3	EGNR450 Cooperative Education Project I 2	EGNR460 Engineering Research Project I 4
	EGNR451 Cooperative Education Project II 2	EGNR461 Engineering Research Project II 2
	EGNR491 Engineering Design Project I 3	