

# MECHANICAL ENGINEERING

Louisiana Tech University

Curriculum as of 2019

Name \_\_\_\_\_

Date \_\_\_\_\_

CWID \_\_\_\_\_

Email \_\_\_\_\_@latech.edu

COURSE	PREREQUISITE	SCH	QTR	R	GRADE			
MEEN 215	MEMT 201○	1	F,W	R				
321	MEMT 201	2	W, SP	R				
332	ENGR 222, MATH 241-244 GPA ≥ 2.0	3	W, SP	R				
350	ENGR 220, MATH 241-244 GPA ≥ 2.0	1	F,SP	R				
353	MATH 313○, MEEN 350, MATH 245, ENGR 222	3	W, SP	R				
361	MEEN 350 and MEMT 211 or 212	3	W, SP	R				
363	MEEN 350, MEMT 203	3	W	R				
371	MATH245,313,MEEN350,MEMT203,ENGR221	3	SP	R				
382	ENGR 221, MATH 241-244 GPA ≥ 2.0	2	F,W	R				
451	MEEN 353, MEMT 313	3	F,SP	R				
462	MEEN 361	3	F,SP	R				
480	MEEN 215, 321, 451○, 462○	1	F	R				
481	MEEN 480	1	W	R				
482	MEEN 481	1	SP	R				
BISC 101		3						
CHEM 101	CHEM 100 (or by placement)	2		*				
102	CHEM 101	2		*				
103	CHEM 100, 101○	1		*				
COMM 101		3		□				
ENGL 101		3						
102	ENGL 101	3						
303	ENGL 102	3						
ENGR 120	MATH 240○, CHEM 100○	2		*				
121	ENGR 120, MATH 241○, CHEM 101○	2		*				
122	ENGR 121, MATH 242○	2		*				
220	ENGR 122, MATH 242, PHYS 201	3		*R				
221	ENGR 122, MATH 242, PHYS 201	3		*				
222	ENGR 122, MATH 242	3		*R				
INEN 300		2						
406	INEN 300	2						
MATH 241	MATH 240 (or by placement)	3		*				
242	MATH 241	3		*				
243	MATH 242	3		*				
244	MATH 243	3		*				
245	MATH 244	3		*				
313	MATH 245○	3						
MEMT 201	ENGR 122	2		R*				
203	ENGR 220	3		R*				
212	ENGR 220, MATH 241-243 GPA ≥ 2.0	3		R*				
313	ENGR 222, MEMT 203, MATH 241-244 GPA > 2.0	3	F, W	R*				
PHYS 201	MATH 241	3		*				
202	PHYS 201, MATH 242	3		*				
<b>ELECTIVES</b>								
Fine Art (ART 290, KINE 280, MUGN 290, THTR 290)		3						
COES Directed Elective		3						
ECON 201, 202, or 215		3						
Humanity		3						
MEEN Directed Elective		3		R				
MEEN Directed Elective		3		R				
MEEN Directed Elective		3		R				
Social Science		3						
<b>TOTAL SEMESTER HOURS</b>		<b>128</b>						

SUBSTITUTIONS		
COURSE	SCH	GRADE
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

ADDITIONAL COURSES		
COURSE	SCH	GRADE
1		
2		
3		
4		
5		

GPA	
Rubric GPA	_____
MATH 241-244 GPA	_____

NOTES	
*	requires grade of "C" or higher
○	credit or registration in
R	course in rubric
□	must be completed within first year of enrollment
1	Directed electives must be selected in consultation with advisor.
2	Petitions must be filed for substitutions.
3	A student must have a minimum 2.0 GPA on all hours pursued in courses designated: MEEN, MEMT, and ENGR 220 & 222.

ADDITIONAL COMMENTS	

Advisor: \_\_\_\_\_

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FRESHMAN YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
ENGR 120	* Engineering Problem Solving I	2	ENGR 121	* Engineering Problem Solving II	2	ENGR 122	* Engineering Problem Solving III	2
MATH 240	* Math for Engr & Science	3	MATH 241	* Calculus I	3	MATH 242	* Calculus II	3
CHEM 100	* General Chemistry	2	CHEM 101	* General Chemistry	2	CHEM 102	* General Chemistry	2
COMM 101	□ Principles of Communication	3	CHEM 103	* General Chemistry Lab	1	PHYS 201	* Physics for Engr & Sci I	3
FYE 100	First Year Experience	1	ENGL 101	Freshman Composition I	3			
		11			11			10

SOPHOMORE YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
ENGR 220	* Statics & Mechanics of Materials	3	ENGR 221	* Electrical Engineering Circuits I	3	ENGR 222	* Thermodynamics	3
MATH 243	* Calculus III	3	MATH 244	* Calculus IV	3	MATH 245	* Differential Equations	3
MEEN 215	Engineering Materials Lab	1	MEMT 203	* Dynamics	3	PHYS 202	* Physics for Engr & Sci II	3
MEMT 201	* Engineering Materials	2	ENGL 102	Freshman Composition II	3	ENGL 303	Technical Writing	3
BISC 101	Fundamentals of Biology	3						
		12			12			12

JUNIOR YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
MEEN 350	Computer-Aided Modeling	1	MEEN 321	Manufacturing Processes	2	MEEN 353	Heat Transfer	3
MEEN 382	Basic Measurements	2	MEEN 332	Thermodynamics II	3	MEEN 361	Advanced Mechanics of Materials	3
MEMT 212	* Intermed. Strength of Materials	3	<b>MEEN 363</b>	Dynamics of Machine Elements	3	<b>MEEN 371</b>	Dynamic Systems	3
MEMT 313	* Fluid Mechanics	3	MATH 313	Intro. Numerical Analysis	3	INEN 406	Project Management	2
Social Science**		3						
		12			11			11

SENIOR YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
MEEN 451	Thermal Design	3	<b>MEEN 481</b>	Capstone Design Project II	1	<b>MEEN 482</b>	Capstone Design Project III	1
MEEN 462	Machine Element Design	3	MEEN Directed Elective◊		3	MEEN Directed Elective◊		3
<b>MEEN 480</b>	Capstone Design Project I	1	MEEN Directed Elective◊		3	COES Directed Elective◊		3
INEN 300	Engineering Economics	2	Humanity†		3	Fine Arts		3
ECO On 201, 202, or 215		3						
		12			10			10

Neither MATH 240 nor CHEM 100 count towards the mechanical engineering degree.

\* requires grade of "C" or higher.

Courses in **bold** are typically offered only once per year.

□ must be completed within first year of enrollment

◊ must be a 400 level MEEN/MEMT course, or approved by program

◊ must be a 400 level COES course approved by the program

\*\*Social Science electives can be selected from Anthropology, Criminal Justice, Economics, Geography, International Studies, Interdisciplinary, Political Science, Psychology, and Sociology.

†Humanities electives can be selected from Classical Studies, Communications, Foreign Languages, History, Literature, Philosophy, Religious Studies, Interdisciplinary