

# MECHANICAL ENGINEERING LOUISIANA TECH UNIVERSITY

*Revised Spring 2011*

Name \_\_\_\_\_

Date \_\_\_\_\_

Student ID \_\_\_\_\_

Email \_\_\_\_\_

COURSE	PREREQUISITE	SH	SCHED	GRADE
MEEN 215	MEMT 201 (Co-req)	1	F, W	_____
321	MEMT 201, MEEN 350	2	W, Sp	_____
332	ENGR 222, MATH 241-244 GPA ≥ 2.0	3	W	_____
350	MATH 241-244 GPA ≥ 2.0	1	F	_____
353	MATH 313, MEEN 332, 350	3	Sp	_____
361	MEMT 203, 211, MEEN 350	3	Sp	_____
363	MEMT 203, MEEN 350	3	W	_____
371	MATH 245, 313, MEMT 203, 313, ENGR 221	3	Sp	_____
382	ENGR 221, MATH 241-244 GPA ≥ 2.0	2	F	_____
451	MEEN 353, MEMT 313	3	F	_____
462	MEEN 361	3	F	_____
475	MEEN 371	3	W	_____
480	MEEN 215, 321, 451**, 462**, ENGL 363, INEN300**	1	F	_____
481	MEEN 480	1	W	_____
482	MEEN 481	1	Sp	_____
CHEM 101	CHEM 100 (or by placement), ENGR 121 (Co-req), MATH 241 (Co-req)	2	_____	* _____
102	CHEM 101, ENGR 122 (Co-req), MATH 242 (Co-req)	2	_____	* _____
103	CHEM 101 (Co-req)	1	_____	* _____
ENGL 101		3	_____	_____
102	ENGL 101	3	_____	_____
210, 211, or 212	ENGL 102	3	_____	_____
303	ENGL 102	3	_____	_____
363	ENGL 303	3	_____	_____
ENGR 120	MATH 240**, CHEM 100**	2	_____	* _____
121	ENGR 120, MATH 241 (Co-req), CHEM 101 (Co-req)	2	_____	* _____
122	ENGR 121, MATH 242 (Co-req), PHYS 201 (Co-req)	2	_____	* _____
220	ENGR 122, PHYS 201, MATH 242	3	_____	* _____
221	ENGR 122, MATH 242	3	_____	* _____
222	ENGR 122, MATH 242	3	_____	* _____
INEN 300		2	_____	_____
MEMT 201	ENGR 122	2	_____	* _____
203	ENGR 220, PHYS 201	3	_____	* _____
211	ENGR 220, MATH 241-243 GPA ≥ 2.0	2	_____	* _____
313	ENGR 220, 222, MEMT 203, MATH 241-244 GPA ≥ 2.0	3	_____	* _____
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	_____	_____
PHYS 201	ENGR 122 (Co-req), MATH 242 (Co-req)	3	_____	* _____
202	PHYS 201, MATH 242	3	_____	* _____
<b>ELECTIVES</b>				
ART (ART 290, MUGN 290, SPTH 290, or KINE 280)	_____	3	_____	_____
HIST	See note 5	3	_____	_____
BISC 101	_____	3	_____	_____
Social Science	ECON 202 Required	3	_____	_____
Social Science	See notes 1 and 5	3	_____	_____
Social Science	_____	3	_____	_____
MEEN Directed Elective	_____	3	_____	_____
Directed Elective	See note 2	3	_____	_____
<b>TOTAL SEMESTER HOURS</b>		<b>128</b>		

SUBSTITUTIONS	APPR	SH	GRADE
1 _____	_____	_____	_____
2 _____	_____	_____	_____
3 _____	_____	_____	_____
4 _____	_____	_____	_____
5 _____	_____	_____	_____
6 _____	_____	_____	_____

ADDITIONAL COURSES	SH	GRADE
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

NOTES
<p>* Requires grade of "C" or better ** Credit or registration in</p> <p>1 Social Science electives must include at least two disciplines, selected from Economics, Geography, Political Science, Psychology, or Sociology.</p> <p>2 Directed electives must be selected in consultation with students advisor.</p> <p>3 Substitutions must be initialed by Program Chair. Put substitution number in the "grade" blank of the course being replaced.</p> <p>4 A student must have a minimum 2.0 grade point average on all hours pursued in courses designated as MEEN (Mechanical Engineering), MEMT, and ENGR 220 and 222.</p> <p>5 All students must complete an International Education Requirement. HIST 102, GEOG 205, and GEOG 210 are acceptable for this requirement.</p> <p>Comments: _____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>

Advisor's Name \_\_\_\_\_

# MECHANICAL ENGINEERING LOUISIANA TECH UNIVERSITY

Name \_\_\_\_\_

Date \_\_\_\_\_

Student ID \_\_\_\_\_

Email \_\_\_\_\_

FRESHMAN YEAR											
Fall Quarter		Cr	Gr	Winter Quarter		Cr	Gr	Spring Quarter		Cr	Gr
ENGR 120*	Engr Problem Solving I	2		ENGR 121*	Engr Problem Solving II	2		ENGR 122*	Engr 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	
ENGL 101	Freshmen Composition I	3		CHEM 103*	General Chemistry Lab	1		PHYS 201*	Physics for Engr & Sci. I	3	
UNIV 100	University Seminar	1		ENGL 102	Freshmen Composition II	3					
		11				11				10	

SOPHOMORE YEAR											
Fall Quarter		Cr	Gr	Winter Quarter		Cr	Gr	Spring Quarter		Cr	Gr
ENGR 220*	Statics & Mechs of Materials	3		ENGR 221*	Electrical Engr & 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		HIST ____ ***		3		ENGL 303	Technical Writing	3	
BISC 101	Fundamentals of Biology	3									
		12				12				12	

JUNIOR YEAR											
Fall Quarter		Cr	Gr	Winter Quarter		Cr	Gr	Spring Quarter		Cr	Gr
<b>MEEN 350</b>	Computer-Aided Modeling	1		MEEN 321	Manufacturing Processes	2		<b>MEEN 353</b>	Heat Transfer	3	
<b>MEEN 382</b>	Basic Measurements	2		<b>MEEN 332</b>	Thermodynamics II	3		<b>MEEN 361</b>	Adv. Mechanics of Materials	3	
MEMT 211*	Intermed. Strength of Materials	2		<b>MEEN 363</b>	Dynamics of Machine Elements	3		<b>MEEN 371</b>	Dynamic Systems	3	
MEMT313*	Fluid Mechanics	3		MATH 313	Intro. Numerical Analysis	3		ART†	Fine Arts Appreciation	3	
ENGL 363	Scientific/Tech. Presentation	3									
		11				11				12	

SENIOR YEAR											
Fall Quarter		Cr	Gr	Winter Quarter		Cr	Gr	Spring Quarter		Cr	Gr
<b>MEEN 451</b>	Thermal Design	3		<b>MEEN 475</b>	Mechatronics	3		<b>MEEN 482</b>	Capstone Design Project III	1	
<b>MEEN 462</b>	Machine Element Design	3		<b>MEEN 481</b>	Capstone Design Project II	1		Directed Elective**		3	
<b>MEEN 480</b>	Capstone Design Project I	1		MEEN Directed Elective**		3		ENGL 210, 211 or 212	Literature	3	
INEN 300	Engineering Economics	2		Social Science ***		3		Social Science ***		3	
Social Science	(ECON 202)	3									
		12				10				10	

Neither *MATH 240* nor *CHEM 100* counts toward the Mechanical Engineering degree. Placement exams are available.

\* Grade of C or higher required before taking a course for which this one is a prerequisite.

\*\* Directed electives are chosen in consultation with advisor and approved by the Program Chair.

\*\*\* HIST 102, GEOG 205, or GEOG 210 count as the International Education Requirement (IER).

† ART 290, SPTH 290, MUGN 290, or KINE 280 counts as the Fine Arts Requirement.

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