Master of Science in Engineering

Degree Codes: ES MSE ENGR **Concentration:** Mechanical Engineering **Contact:** Professor Prabhu Arumugam

Overall requirements for the specific options are as follows:

Requirements for all degree types

Course Category	Number	Course Name		SCH
Core Courses	ENGR 510	Introduction to Engineering and Science Research Methods	2	5
	Engineering Mathematics: select one of the following two courses			
	ENGR 541	Advanced Mathematical Methods for Engineering and Physics	3	
	ENGR 592	Engineering Computational Methods	3	
Concentration Courses*	Students must take one course in each of the following areas			9
	Mechanics (MEMT 563, MEMT 577, or MEMT 588)		3	
	Materials (MEMT 511 or MEMT 517)		3	
	Thermal Systems (MEEN 542 or MEEN 543 or CMEN 522)		3	
				Total 14

Thesis Option (in addition to the courses above)

Course Category	Number	Course Name		SCH
Core Courses	ENGR 511	Engineering and Science Research Proposal Development	1	1
Electives**	Three courses (9 semester hours) approved by the student's advisory committee			9
Thesis	MEEN 551	Research & Thesis (6 SCH are required with at least 3 SCH taken in the quarter the thesis is reviewed and approved)		6
				Total 30

Practicum Option (in addition to the courses above)

Course Category	Number	Course Name		SCH
Core Courses	ENGR 511	Engineering and Science Research Proposal Development	1	1
Electives**	Six courses (18 semester hours) approved by the student's advisory committee			18
Practicum	MEEN 555	Practicum		3
				Total 36

Coursework Only Option (in addition to the courses above)

Course Category	Number	Course Name		SCH
Core Courses	ENGR 589A	Professional Development Seminar	1	1
Electives**	Five courses (15 semester hours) approved by the student's advisory committee			15
MATH/STAT	One MATH and one [STAT course or INEN 514]			6
				Total 36

***The concentration courses for the concentration in Mechanical Engineering.

**The maximum number of variable credit Directed Study courses that can be applied towards the degree is 6 SCH.

Plan of Study Important Information: When entering information in the plan of study, it is important to note that only core courses and all core courses need to be put in section 1.1, while all others are put in section 1.2 (i.e. special topics, seminar, and research courses). See http://coes.latech.edu/grad-programs/plan-of-study-instructions.pdf for plan of study instructions.

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