Department of Mechanical Engineering

MASTER OF SCIENCE REQUIREMENTS

COMMITTEE REQUIREMENTS

1. **General Requirements**:
    a. Minimum of three (3) faculty on the committee, including the committee chair and co-chair, if applicable.
    b. All committee members must be on Graduate Committee Faculty through OGAPS. A list is available at http://ogaps.tamu.edu/faculty-advisors/search
    c. At least one member must be from outside the Department of Mechanical Engineering.

2. **Committee Chair:** may be tenure/tenure-track faculty in MEEN or joint/courtesy appointment to MEEN. Joint/courtesy appointment faculty chairs do **not** count as a non-MEEN committee member.
    a. **Joint/Courtesy Appointment Chairs** are required to fund student through GAR or a GAT position in the faculty member's home department

3. **Committee Co-chair:** optional; student may choose to have a co-chair on their committee. This person can be from in or out of MEEN.

4. **Committee Members:** you must have at least one (1) committee member from MEEN. The remaining one (1) committee member must be from outside of MEEN. *Note: If a MEEN faculty member has a joint/courtesy appointment in another department, they can count as your non-MEEN committee member.*

COMMITTEE PLANNING

Faculty Name	Committee Role	Faculty Member's Department
	Chair	
	Co-chair[1]	
	Member 1	
	Member 2[2]	

[1]Optional

[2]Only required if student does not have a co-chair

CURRICULAR REQUIREMENTS

1. **Required Graduate Level Mathematics Credit:** 1 course – total of 3 credit hours

Course Options
MEEN 602: Modeling & Analysis of Mechanical Systems (preferred)
Any graduate level MATH or STAT course

2. **Core Courses:** 2 courses – total of 6 credit hours

Course Options
MEEN 601: Advanced Product Design
MEEN 603: Theory of Elasticity
MEEN 608: Continuum Mechanics
MEEN 613: Engineering Dynamics
MEEN 615: Advanced Engineering Thermodynamics
MEEN 617: Mechanical Vibrations
MEEN 621: Fluid Mechanics
MEEN 630: Intermediate Heat Transfer
MEEN 651: Control System Design

3. **Technical Elective Courses:** 5 courses – total of 15 credit hours

Course Options
Any graduate level MEEN course; may include course(s) from core course listing; maximum of 4 hours of MEEN 684 & 685 combined
Any graduate level course in the college of engineering or college of science, with research advisor approval*
May include up to two (2) undergraduate courses at the 400-level

*Courses with the ENGR prefix or outside of the colleges of engineering or science require prior approval from the MEEN Graduate Program Director

4. **Seminar:** 1 semester of MEEN 681 – total of 1 credit hours
   681: Seminar from other departments will <u>not</u> be accepted

5. **Research:** 7 credit hours of MEEN 691

COURSE PLANNING

Course	Credit Hours	Semester	Degree Plan Requirement
			Mathematics
			Core Course
			Core Course
			Technical Elective 1
			Technical Elective 2
			Technical Elective 3
			Technical Elective 4
			Technical Elective 5
MEEN 681	1		Seminar
MEEN 691	7		Research Hours