UNIVERSITY of HOUSTON | ENGINEERING

Department of Mechanical Engineering

QUALIFYING EXAM AGREEMENT FORM

MATERIALS GROUP

Student: _____

Advisor: _____

Exam Date: _____ **Exam Time:** _____

QUALIFYING EXAM REQUIREMENTS:

If a student has taken any or all of the core courses in the materials group, he/she must specify in the form with their respective grades. If the student has not taken the core courses, they can substitute courses from the list of approved materials-based substitute courses. Students must have received A- or above in their core courses, to be exempt from taking the course based QE exam, and will have to give a research presentation only. Students who have received less than A- in any of their core courses, must take the QE oral exam on those specific courses/topics, in addition to the research presentation.

COURSE	SEMESTER TAKEN	GRADE
MECE 6361: Mechanical Behavior of Materials *OR APPROVED SUBSTITUTION*		
MECE 6363: Physical Metallurgy *OR APPROVED SUBSTITUTION*		
MECE 6364: Phase Transform in Materials *OR APPROVED SUBSTITUTION*		
APPROVED SUBSTITUTION		

*Students are allowed to substitute one course from the core courses of other groups (Mechanics, Thermal-Fluids, Control). Transition year students are allowed to substitute from the list of approved courses (List A attached).

		Initials	Date
Student's Advisor:	_____	_____	_____
Committee member 1:	_____	_____	_____
Committee member 2:	_____	_____	_____
Committee member 3:	_____	_____	_____
Committee member 4:	_____	_____	_____
Graduate Director:	_____	_____	_____

List A: List of Approved Substitute Courses for Transition Year Students

Mechanical Engineering Courses (MECE):

#	Course #	Course Title	Credit #
1	MECE 6301	Nanostructured Materials	3
2	MECE 6320	Composite Materials	3
3	MECE 6321	Polymer Materials & Mechanics	3
4	MECE 6322	Polymer Viscoelasticity & Failure	3
5	MECE 6339	Introduction to Engineering Alloys	3
6	MECE 6340	Materials for Energy Storage	3
7	MECE 6358	Superconductor Materials	3
8	MECE 6361	Mechanical Behavior of Materials	3
9	MECE 6363	Physical Metallurgy	3
10	MECE 6364	Phase Transform in Materials	3
11	MECE 6386	Computational Modeling of Materials	3
12	MECE 7320	Micromechanics of Composites	3
13	MECE 7321	Mech. of Composite Matls. & Structures	3
14	MECE 7322	Damage & Failure Mech. of Composites	3
15	MECE 7371	Adv. Fracture Mechanics	3
16	MECE 7372	Nanomechanics of Materials	3
17	MECE 7374	Mech. Behavior of Ceramics	3
18	MECE 7382	Physical Properties of Crystal	3

Material Engineering Courses (MTLS):

#	Course #	Course Title	Credit #
1	MTLS 6300	Physics and Chemistry of Engineering Matls.	3
2	MTLS 6319	Introduction to Nanoengineering	3
3	MTLS 6320	Nanomaterials Engineering	3
4	MTLS 6321	Nano Design and Fabrication	3
5	MTLS 6322	Semiconductor Material/Device	3