

MSE Course Worksheet

MSE Degree Options

PhD: 24 credits plus 6 credits for research project and thesis

Masters w/Thesis: 24 credits plus 6 credits for research thesis (60-80 pages)

Masters w/Research Project **: 26 credits plus 4 credits for research project (30 - 40 pages)

Masters all taught **: 30 credits class work (majority must be MSE courses)

** This option is not available to students on the 5 year accelerated program

Academic Course Requirements

NOTE: Several courses are crosslinked, be sure register for the level 5xx

Required Core courses (must take all five)

Fall	MSE 511	4	Techniques for Studying Solids	MW	04:40 pm - 06:10 pm
Fall	MSE 593	1	Frontiers in Materials Science	W	10:50 am - 01:00 pm
Fall	MSE565	3	Crystallography & Diffraction (Techniques)	MWF	03:30 pm - 04:30 pm
Spring	MSE590	3	Materials Communications & Sem		
Spring	MSE 566	4	Reactivity of Materials (Thermodynamics)		

Required Materials Structure and properties course (must choose at least one)

Spring	MSE 562	3	Mechanical Behavior of engineering materials		
Spring	CHEM 544	4	Chemistry of Solids		
Spring	MSE 572	4	Physics of Materials		

Electives (you may take electives in other subjects, but 50% of your electives must be MSE)

Fall	MSE560	3	Thermodynamics of Materials	TR	04:00 pm - 05:25 pm
Fall	SSIE 569	3	Materials for Manufacturing (Polyomers)	TR	01:15 pm - 02:40 pm
Fall	MSE584P	4	Inorg Topics: Energy Materials	MW	06:15 pm - 07:45 pm
Spring	MSE 573X	4	Microscopy and related Techniq		
Spring	MSE 583	3	Special Topics in Materials		
TBD	MSE 583C	3	Computational Materials Phys		
TBD	MSE 563	3	Thin Film & Coating Technology		

PhD Only:

Written comprehensive exams (given in May)

Oral Examination (within 6 months of written exams, preferably prior to August 15th)

Prospectus (written proposal with oral defense)

[illegible]