

Materials Science and Engineering PhD Degree Tracking Sheet

NAME:		STUDENT #:	
Date entered MSE:		Goals/Interests:	
Date of Qualifying Eval:			
QE Result::		Faculty Advisor/Contact:	
Date Supervisory Committee Formed:			
Date of General Exam:		PhD Supervisory Committee Members:	
Date Warrant for General Exam filed:			
Date of Final Exam:			
Date Warrant for Final Exam filed:			
Anticipated Quarter of Graduation:		Reading Committee Members:	

PHD DEGREE REQUIREMENTS:

*Prerequisite Courses may be required after entry into the Graduate Program**

Req	Course	Quarter	Credits	Grade
<input type="checkbox"/>	MSE 170 (A,W,Sp,Su) Fundamentals of Mtls Science & Engr			
<input type="checkbox"/>	MSE 331 (Aut) Crystallography			
<input type="checkbox"/>	MSE 362 (Spr) and/or 351 (Win) Materials Properties			
<input type="checkbox"/>	MSE 322 (Win) Kinetics			
<input type="checkbox"/>	MSE 321 (Aut) and/or 421 (Win) Thermodynamics**			

* some of the courses above may not count for graduate credit

** Must have 2 undergraduate thermodynamics courses upon entry to grad program, otherwise MSE 421 is required.

MSE GPA must be 3.0 or above; UW GPA must be 3.0 or above

Ph.D. DEGREE: if you have a MS degree from another institution, you must provide Graduate Admissions proof of your degree certification via an official transcript showing the date the MS degree was conferred

Required Core Courses; must receive at least a 3.0 in each course

Course	Quarter	Credits	Grade
MSE 510 (Aut) Bonding, Symmetry & Crystallography (MSE 518 , Spr Qtr, may substitute for MSE 510)		3 credits	
MSE 541 (Win) Defects in Materials		3 credits	
MSE 525 (Spr) Kinetics		3 credits	

* Once all core courses are complete, take Qualifying Evaluation. Once you have passed the Qualifying Evaluation, form PhD Supervisory Committee. Once the Supervisory Committee is formed, then begin registering for MSE 800, Dissertation Credits

Department Seminar, 6 credits required for PhD

Course	Quarter	Credits	Grade		Course	Quarter	Credits	Grade
MSE 520		1			MSE 520		1	
MSE 520		1			MSE 520		1	
MSE 520		1			MSE 520		1	

Optional Course Requirements:

Must take 3 optional courses. Optional courses are graded, 3 credit, 500 level MSE courses

Course	Quarter	Credits	Grade

Sample Optional Courses:	Title	Qtr and Year *	Credits
MSE 501	Advanced Processing of Inorganic Materials		3
MSE 502	Sol Gel Processing		3
MSE 512, 513	TEM, both are required to meet the requirement		3,2
MSE 515	Advanced TEM		3
MSE 518	Advanced Mineralogy (opt. Cr as long as not taken for 510 sub)		3
MSE 524	Applied Rate Phenomena		3
MSE 565	Electron Theory of Materials		3
MSE 504	Intro to MEMS		4
MSE 530	Metal Finishing		3
MSE 599 L	Magnetic Materials		3
MSE 599 K	Electrical and Optical Properties		3
MSE 562	Into to Electronic Composites		3
MSE 563	Advanced Composites		3

* Please be advised that the Quarter and Year that Optional Courses are offered are subject to change.

Any MSE 500 level course will count for optional credit, except MSE 520, the core courses or independent study MSE 599 credits

MSE 800 Doctoral Dissertation Credits, 36 credits minimum; all credits graded upon completion of dissertation

Course	Qtr	Cr	Qtr	Cr	Qtr	Cr	Qtr	Cr
MSE 800								
	Qtr	Cr	Qtr	Cr	Qtr	Cr	Qtr	Cr

9 cr Core + 6 cr Seminar + 9 cr Optional + 36 cr MSE 800 = 60 credits

Need a total of 90 credits for PhD, 60 must be from UW

For those that already have a MS degree:

18 cr MSE 500 level + 6 cr seminar = 24 course credits (of these 24 cr, 18 cr are graded), plus 36 cr MSE 800 cr = 60 credits, which is the minimum credit total for the Grad school

For those that bypass MS degree:

Student must still take: 24 cr of coursework + 66 cr of MSE 800=90 credits

Total of 90 cr are required for PhD; student must first pass the PhD QE & be major author on at least 2 papers

If you complete the MS at the UW and decide to pursue the PhD, then you would take 3 more cr of MSE 520 and the required number of MSE 800 credits to reach 90 credits total required for the PhD