

Appendix II

PhD in Materials Science Student Requirements Checklist

Name of Student: _____ Date of Entry: _____

Advisor: _____

Thesis Committee (year 2): _____

Thesis Credits: _____

Date of Thesis Defense: _____ Title: _____

Course Requirements

Student must present 39 course credits beyond the baccalaureate degree including MS 860, MS 900, and MS 961, plus 15 credits of elective courses with at least one course in each of the three areas of Characterization, Synthesis and Processing, and Structure-Property Relationships, plus five *additional* elective courses, and a minimum of two semesters of MS 999 (thesis research). A total of 12 credits of coursework must be at the 900 level.

Seminar: #900 (1cr) Semester taken _____ Title: #1 _____
and #900 (1cr) Semester taken _____ Title: #2 _____

Required core courses (2):

#	Title	Credits	Semester Taken	Grade
MS 860	Thermodynamics of Materials I	4	_____	_____
MS 961	Thermodynamics & Kinetics of Materials II	4	_____	_____

Characterization Courses:

#	Title	Credits	Semester Taken	Grade
MS 861	Diffraction & Imaging Methods in Materials Science	4	_____	_____
MS 965	Advanced Surface & Thin Film Characterization	4	_____	_____
MS 995	Macromolecular Characterization	3	_____	_____

Other:

#	Title	Credits	Semester Taken	Grade
			_____	_____

Synthesis & Processing Courses:

#	Title	Credits	Semester Taken	Grade
MS 863	Thin Film Science & Technology	4	_____	_____
CHE 801	Intro. to Polymer Engineering	4	_____	_____
MS 895	Materials Synthesis & Processing	4	_____	_____
MS 995	Macromolecular Synthesis	3	_____	_____

Other:

#	Title	Credits	Semester Taken	Grade
			_____	_____

Structure and Property Relationship Courses:

#	Title	Credits	Semester Taken	Grade
MS 830	Mechanical Behavior of Materials	4		
MS 831	Fracture and Fatigue of Engr. Materials	4		
ME 835	Mechanics of Composite Materials	4		
ME 935	Micromechanics of Comp. & Porous Mat'l	4		
MS 862	Electronic Properties of Materials	3	_____	_____
PHYS 818	Introduction to Solid State Physics	3	_____	_____
PHYS 965	Advanced Solid State Physics	3	_____	_____
BCHM 851	Principles of Biochemistry	4	_____	_____
BCHM 850	Physical Biochemistry	3	_____	_____
MS 995	Properties and Processing of Polymer Fluids and Solids	3 or 4	_____	_____

Other:

#	Title	Credits	Semester Taken	Grade
			_____	_____

Other courses taken:

#

Title

Credits Semester Taken Grade

Review Paper Examination (by end of Y2) Title: _____

Date of submission _____

Date of defense _____

Evaluation

Research Proposal Examination (by end of Y3) Title: _____

Date of submission _____

Date of defense _____

Evaluation

All requirements to advance to candidacy are fulfilled :

Date _____

Thesis Committee Signatures

Annual Review Committee

Date	Committee	Comments
1.		
2.		
3.		
4.		
5.		
6.		