Boston University College of Engineering Division of Materials Science & Engineering MS (Non-Thesis) Program Planning Sheet

ENG MS/ME 526 Simulation of Physical Processes



Student Name:	BU ID
Advisor Signature:	
MS (Non-Thesis) students must take 32 credits, all of which must be at the Practicum Courses up to 8 credits; Elective Course 4 credits. Only one 40 prerequisite for another course in the program. MS students must maintain graduate. All graduate courses are counted in the GPA. Grades of C- or lo	in a cumulative GPA of 3.00 to remain in good academic standing and to
CORE Four courses, one each from A, B, C and D. Circle the co	ourse used for A and D. (16 credits)
	ion to Solid State Physics (by instructor approval only) Sem/Gr
D. MS 574/EC 574 Physics of Semiconductor Materials or MS 504 Pol Materials or MS 508/ME 508 Computational Methods in Materials	ymers and Soft Materials or MS 582/ME 582 Mechanical Behavior of Science Semester/Grade
CONCENTRATION Two courses from one area. (8 cr	redits)
A. Biomaterials	C. Materials for Energy and Environment
ENG BE 521 Continuum Mechanics for Biomedical Engineers	ENG MS/ME 527 Trans. Phenomena in Matls Processing
ENG MS/ME/BE 524 Skeletal Tissue Mechanics	ENG MS/ME 532 Atomic Structure & Dislocations in Matls
ENG BE 526 Fundamentals of Biomaterials	ENG MS/ME 535 Green Manufacturing
ENG BE 533 Biorheology	ENG MS/ME 545 Electrochemistry of Fuel Cells & Batteries
ENG MS/BE/ME 549 Structure & Function Extracellular Matrix	EK 546 Assessment of Sustainable Energy Technologies
GRS CH 550 Materials Chemistry	GRS CH 550 Materials Chemistry
GRS CH 621 Biochemistry	GRS CH 631 Structure and Bonding
GRS CH 629 DNA Nanotechnology	ENG MS/EC 573 Solar Energy Systems
ENG MS/ME/BE 727 Principles & Applications of Tissue Eng	GRS PY 741 Solid State Physics I
GRS PY 744 Polymer Physics	GRS PY 742 Solid State Physics II
GRS PY 771 Systems Biology for Physical Scientists & Eng	GRS PY 745 Experimental Surface Physics and Chemistry ENG MS/ME 781 Electroceramics
B. Electronic/Photonic Materials	ENOWIS, WE FOR Electrocerumics
ENG EC 560 Introduction to Photonics	D. Nanomaterials
ENG EC 575 Physics of Semiconductor Devices	GRS CH 550 Materials Chemistry
ENG EC 578 Fabrication Tech for Integrated Circuits	ENG MS/ME 555 MEMS Fabrication and Materials
GRS PY 741 Solid State Physics I	ENG ME 576 Nanomanufacturing and Hierarchical Materials
GRS PY 742 Solid State Physics II	GRS CH 631 Structure and Bonding
GRS PY 745 Experimental Surface Physics and Chemistry	ENG MS/ME 735 Computational Nanomechanics
GRS CH 752 Advanced Topics in Chemical Physics	GRS PY 745 Experimental Surface Physics and Chemistry
ENG MS/EC 764 Optical Measurement	ENG EC 777 Nanostructure Optics
ENG EC 770 Guided-wave Optoelectronics	ENG MS/ME 778 Micromachined Transducers
ENG MS/EC 774 Semiconductor Quant. Strctrs & Phot Dev ENG EC 777 Nano-Optics	A D B D C D D D (colort even commisted)
ENGLE /// Nano Optics	A. □ B. □ C. □ D. □ (select area completed) Course/Semester/Grade
	Course/Semester/Grade
PRACTICUM One to two courses. (4 to 8 credits) Course/S	
ENG MS 539 Intro to Materials Science and Engineering	ENG MS 951 Independent Study
ENG MS 782 Advanced Materials Characterization	ENG MS 952 Mentored Project
FIFCTIVE If only 4 gradity of Dynaticum are taken 4 and the forms	the list below, or from above if not used to satisfy the core, concentration, or
practicum requirements. Course/Semester/Grade	the list below, or from above it flot used to Satisfy the core, concentration, or
ENG MS 500 Special Topics	ENG ME/EC 579 Microelectronic Device Mfg
ENG MS/ME 507 Process Modeling and Control	ENG MS/ME 580 Theory of Elasticity
ENG ME 516 Statistical Mechanical Concepts in Engineering	ENG MS 700 Adv Special Topics

GRS CH 751 Advanced Topics in Physical Chemistry