



WPI

Online Master of Science
Plan of Study
Materials Science and Engineering

Student ID Number: _____ BS/MS: ☐ Full Time: ☐ Part Time: ☐

Student Name (Last / First / Middle): _____

Address: _____

City _____ State _____ Zip _____

Home or cell #: _____ Email: _____

Advisor's Name (Please Print): _____

Materials Science and Engineering

Complete a minimum of 15 graduate credits.

Required Courses

Course Number	Course Name	Credits	Check
MTE 511/ME 5311	Structure and Properties of Engineering Materials	2	☐
MTE 512/ME 531	Properties and Performance of Engineering Materials	2	☐

Complete the remaining credits from the courses below

Course Number	Course Name	Credits	Check
MTE 526	Advanced Thermodynamics	2	☐
MTE 532	X-Ray Diffraction and Crystallography	2	☐
MTE 540	Analytical Methods in Materials Engineering	3	☐
MTE 550	Phase Transformations in Materials	3	☐
MTE 561/ME 5361	Mechanical Behavior and Fracture of Materials	2	☐
MTE 5844	Corrosion and Corrosion Control	2	☐
MTE 509	Electron Microscopy	2	☐
MTE 556/ME 5356	Smart Materials	2	☐
MTE 558	Plastics	2	☐
MTE 5816	Ceramics and Glasses for Engineering Applications	2	☐

Manufacturing, Management & Industrial Engineering

Complete a minimum of 12 graduate credits.

Course Number	Course Name	Credits	Check
MFE 510	Control and Monitoring of Manufacturing Processes	3	☐
MFE 531/ME 5431	Computer Integrated Manufacturing	2	☐
MFE 541/ME 5441	Design for Manufacturability	2	☐
ME 5370/MTE 5841/MFE 5841	Surface Metrology	3	☐
SYS 501	Concepts of Systems Engineering	3	☐



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SYS 502	Business Practices	3	☐
SYS 540	Introduction to Systems Thinking	3	☐
SD 550	System Dynamics Foundation: Managing Complexity	3	☐
OIE 501	Operations Management	3	☐
OIE 544	Supply Chain Analytics	3	☐
OIE 548	Performance Analytics	3	☐
OIE 558	Designing and Managing Lean Six Sigma Processes	3	☐

Capstone

Complete 3 graduate credits.

Course Number	Course Name	Credits	Check
		3	☐

TOTAL PROGRAM REQUIREMENT: 30 GRADUATE CREDITS

Total Credits: ____ /30

Student Signature: _____ Date: _____

Plan of Study Approvals

Advisor

Print Name

Signature

Date

Program Head

Print Name

Signature

Date

The program director and graduate committee will decide on any course substitutions or extenuating circumstances.