



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

Click or tap to enter a date.
Date

Program Head

Print Name

Signature

Click or tap to enter a date.
Date

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