

**University of Virginia
School of Engineering and Applied Science**

Curriculum: Materials & Electrical (Materials Science and Engineering*)

2009	Fall	6 hours	
	MSE 209	Introduction to the Science and Engineering of Materials.....	3
	ECE 203	Introductory Circuit Analysis.....	3
2010	Spring	6 hours	
	MSE 306	Structure and Defects of Materials.....	3
	MSE 310	Materials Science Investigations.....	3
	Summer 1	3 hours (mid May - early June)	
	ECE 303	Solid State Devices.....	3
	Summer 3	3 hours (mid July - mid August)	
	MSE 301	Corrosion, Fuel Cells, and Batteries.....	3
	Fall	6 hours	
	ECE 230	Digital Logic Design.....	3
	MSE 305	Thermodynamics and Kinetics of Materials.....	3
2011	Spring	6 hours	
	ECE 204	Electronics I.....	3
	MSE 432	Origins of Mechanical Behavior.....	3
	Summer 1	3 hours (mid May - early June)	
	MSE 367	Materials for Electrical, Magnetic, and Optical Properties.....	3
	Summer 2	4 hours (mid June - mid July)	
	ECE 310	Electromechanical Energy Conversion.....	4
	Summer 3	3 hours (mid July - mid August)	
	ECE 323	Signals and Systems I.....	3
	Fall	6 hours	
MSE 352	Engineering Materials Selection.....	3	
STS 401	Western Technology and Culture.....	3	
2012	Spring	6 hours	
	MSE 421	Processing of Advanced Materials.....	3
	STS 402	The Engineer, Ethics, & Society.....	3
	Summer 1	3 hours (mid May - early June)	
	MSE 452	Advanced Independent Project.....	3
	Summer 2	3 hours (mid June - mid July)	
	STS 200	Business Ethics.....	3
	Summer 3	3 hours (mid July - mid August)	
	MSE 452	Advanced Independent Project.....	3
	Fall	3 hours	
ECE 402	Linear Control Systems.....	3	
			64

* Visit www.seas.virginia.edu/engineeringscience/curriculum_MSE.php for additional details.