

Subject	Course Number	Course Title	Prerequisites designated with a + might be taken concurrently. Courses designated with a * must be completed with a C or better	Co-requisites	Restrictions				Semester		
					FR	SO	JR	SR	Fall	Spring	Summer
MME	1205*	Computation & Graphics in Material Science	MATH 1508*	none	✓	✓	✓	✓		✓	
MME	1405*	Introduction to Metal & Matls Engineering	MATH 1411*+ AND RWS 1301*+	none	✓	✓	✓	✓	✓	✓	
MME	2303*	Introduction to Materials Science & Engineering	CHEM 1305*	none	✓	✓	✓	✓	✓	✓	✓
MME	2305*	Materials & Energy Balance	MATH 1411* AND CHEM 1305* OR CHEM 1306*	none	X	✓	✓	✓		✓	
MME	2434*	Mechanics of Materials	MATH 1312* AND PHYS 2420*	none	✓	✓	✓	✓		✓	✓
MME	3195*	Junior Professional Orientation	MME 2303*	none	X	X	✓	X	✓		
MME	3306*	Rate Preocesses	CHEM 1306* AND MATH 2326*	none	X	X	✓	✓		✓	
MME	3308*	Applied Chemical Thermodynamics	MME 2303*	none	X	X	✓	✓	✓		
MME	3309*	Circuits, Electronic Materials & Devices	PHYS 2420* AND PHYS 2421* AND MATH 2326	none	X	X	✓	X	✓	✓	
MME	3406*	Nanofunctional Physical Metallurgy	MME 2303*	none	X	X	✓	✓	✓		
MME	3407*	Mechanical Behavior of Materials	MME 2303* AND MME 3406*	none	X	X	✓	✓		✓	
MME	3413	Material Characterization	MME 2303* AND PHYS 2421*	none	✓	✓	✓	✓		✓	
MME	4190	Special Topics in MME Lab	MME 2303*	none	X	X	✓	✓		✓	
MME	4219*	Senior Design Project 1	MME 3407* AND MME 3413*	none	X	X	X	✓	✓		
MME	4220	Senior Design Project 2	MME 4219* AND 4316*	none	X	X	X	✓		✓	
MME	4290	Special Topics in MME	MME 2303*	none	X	X	✓	✓		✓	
MME	4390	Special Topics in MME	MME 2303*	none	X	X	✓	✓	✓	✓	✓
MME	4303*	Metals Processing	MME 2305* AND MME 3308*	none	X	X	✓	✓	✓		
MME	4309*	Corrosion	MME 2303* AND MME 3308*	none	X	X	✓	✓		✓	
MME	4310	Polymer Engineering	MME 2303*	none	X	X	✓	✓	✓		
MME	4312	Biomaterials Science & Engineering	MME 2303*	none	X	X	✓	✓		✓	
MME	4314	Composite Materials	MME 2434* AND MME 2303*	none	X	X	✓	✓		✓	
MME	4315	Metallography & Microstructure Interpretation	MME 3406*	none	X	X	✓	✓	✓	✓	✓
MME	4316*	Failure Analysis	MME 2434* AND MME 2303*	none	X	X	✓	✓	✓		
MME	4317	Advance Failure Analysis	MME 3406*	none	X	X	✓	✓		✓	
MME	4321	Engineering Alloys	MME 4316*	none	X	X	✓	✓		✓	
MME	4331	Non-Destructive Examination	MME 2303*	none	X	X	✓	✓	✓		
MME	4332	Root Cause Analysis	MME 1205* AND MME 2303*	none	X	X	✓	✓		✓	
MME	4333	Fracture Mechanics	MME 2303* AND MME 2434* AND MATH 2326*	none	X	X	✓	✓	✓		
MME	4342	Hydrometallurgy	MME 4303*	none	X	X	✓	✓		✓	
MME	4350	Materials Joining Technologies	MME 3406*	none	X	X	✓	✓	✓		
MME	4404	Mat. Synthesis & Manufacturing	MME 3308*	none	X	X	✓	✓		✓	
MME	4419	Metal Materials Design & Pract	MME 4303* AND MME 3407* AND CE 2326*	none	✓	✓	✓	✓		✓	