

Course		Course Title	Prerequisites: Courses designated with a * must be completed with a "C" or better, "+" might be taken concurrently	Co-requisites
SUBJECT	Number			
MME	1205*	Computation and Graphics in Materials Science	MATH 1411 ⁺	none
MME	1405*	Introduction to Metal and Matls Engineering	MATH 1411 ⁺ & RWS 1301 ⁺	none
MME	2303*	Introduction to Materials Science and Engineering	CHEM 1305*	none
MME	2305*	Material and Energy Balance	(CHEM 1305* or CHEM 1306*) & MATH 1411*	none
MME	2434*	Mechanics of Materials	MATH 2313* & PHYS 2420*	none
MME	3195*	Junior Professional Orientation	MME 2303* & Junior Standing	none
MME	3303*	Nano Organic Materials	CHEM 1306*	none
MME	3306*	Rate Processes	CHEM 1306* & MATH 2326*	none
MME	3308*	Applied Chemical Thermodynamics	MME 2305*	none
MME	3309*	Circuits, Electronic Materials and Devices	PHYS 2420* & PHYS 2421* & MATH 2326*	none
MME	3406*	Nanofunctional Physical Metallurgy	MME 2303*	none
MME	3407*	Mechanical Behavior of Materials	MME 2303* & MME 3406	none
MME	3413	Materials Characterization	MME 2303* & PHYS 2421*	none
MME	4190	Special Topics in MME Lab	MME 2303* & Junior/Senior Standing in MME or EL	none
MME	4290	Special Topics in MME	MME 2303* & Junior/Senior Standing in MME or EL	none
MME	4390	Special Topics in MME	MME 2303* & Junior/Senior Standing in MME or EL	none
MME	4303*	Metals Processing	MME 3306* & MME 3308*	none
MME	4304*	Printable Materials	CHEM 1306* & MME 2303*	none
MME	4309*	Corrosion	MME 2303* & MME 3308*	none
MME	4310*	Polymer Engineering	MME 2303*	none
MME	4316*	Failure Analysis	MME 2303* & MME 2434*	none
MME	4312	Biomaterials Science and Engineering	MME 2303*	none
MME	4314	Composite Materials	MME 2303* & MME 2434* & Junior/Senior Standing in MME or EL	none
MME	4315	Metallography and Microstructure Interpretation	MME 3406*	none
MME	4316	Failure Analysis	MME 2303* & MME 2434*	none
MME	4321	Engineering Alloys	MME 3406* & Junior/Senior Standing	none
MME	4330	Advance Failure Analysis	MME 4316*	none
MME	4331	Non-Destructive Examination	MME 2303* & Junior/Senior Standing	none
MME	4332	Root Cause Analysis	MME 1205* & MME 2303*	none
MME	4333	Fracture Mechanics	MME 2303* & MME 2434* & MATH 2326* & Junior/Senior Standing	none
MME	4334	Biomedical Product Performance Analysis	MME 2303* & MME 4312* & Junior/Senior Standing	none
MME	4335	Funcional Failure Analysis	MME 2303* & MME 2434*	none
MME	4340	Mineral Processing	MME 4303* & Junior/Senior Standing	none
MME	4341	Recycling Processes	MME 4303* & Junior/Senior Standing	none
MME	4342	Hydrometallurgy	MME 4303* & Junior/Senior Standing	none
MME	4350	Materilas Joining Technologies	MME 3406* & Junior/Senior Standing	none
MME	4404*	Mat. Synthesis & Manufacturing	MME 3306* & MME 3308*	none
MME	4219*	Senior Design Project 1	MME 3407* & MME 3413* & Senior standing in MME	none

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SUBJECT	Number	Course Title		Co-requisites
MME	4220*	Senior Design Project 2	MME 4219 & MME 4316 ⁺ & Senior standing in MME	none
MME	4390	Special Topics in MME	MME 2303* & Junior/Senior Standing	none
BME	3303	Fundamentals of BME I	None	none
BME	3305	Fundamentals of BME II	BME 3303	none