

Course			Prerequisites	Co-requisites
SUBJECT	Number	Course Title	courses designated with a * must be completed with a "C" or better	
MME	1205	Computation and Graphics in Materials Science	CHEM 1305*	none
MME	1301	Introduction to MME Design	MATH 1411* & (ENGL 1311*or RWS 1301*)	none
MME	1101	Introduction to MME Design Lab	MATH 1411* & (ENGL 1311*or 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 2313*	none
MME	2434	Mechanics of Materials	MATH 1411*	none
MME	3303	Nano Organic Materials	CHEM 1306	none
MME	3306	Rate Processes	MME 1301*, MME 1101*, CHEM 1306*, & MATH 2326*	none
MME	3308	Applied Chemical Thermodynamics	MME 2305*	none
MME	3309	Introduction to Electronic Materials Science	PHYS 2421*	none
MME	3312	Biomaterials	MME 2303*	none
MME	3314	Composite Materials	MME 2434* & MME 2303	none
MME	3321	Engineering Alloys	MME 3407*	none
MME	3406	Nanofunctional Physical Metallurgy	MME 2303* & JR. standing	none
MME	3407	Mechanical Behavior of Materials	MME 3406* & MME 2303*	none
MME	4171	Engineering Problems	Senior standing	none
MME	4175	Undergraduate Research-Metallurgy	Senior standing & 3.0 GPA	none
MME	4181	Practice-Oriented Experiences	Selection by coordinator, dept. chair, employer	none
MME	4182	Practice-Oriented Experiences	Selection by coordinator, dept. chair, employer	none
MME	4183	Practice-Oriented Experiences	Selection by coordinator, dept. chair, employer	none
MME	4195	Senior Professional Orientation	Senior standing	none
MME	4271	Engineering Problems	Senior standing	none
MME	4275	Undergraduate Research-Metallurgy	Senior standing & 3.0 GPA	none
MME	4303	Metals Processing	MME 3306* & MME 3308*	none
MME	4304	Printable Materials	CHEM 1306* & PHYS 2421*	none
MME	4309	Corrosion	MME 2303*	none
MME	4316	Failure Analysis	MME 2303* & MME 2434* & JR. Standing	none
MME	4322	Nanomaterials and Nanostructures	MME 2303*	none
MME	4330	Solidification Processes	MME 2303*	none
MME	4371	Engineering Problems	Senior standing	none
MME	4375	Undergraduate Research-Metallurgy	Senior standing & 3.0 GPA	none
MME	4404	Materials Processing	MME 4303*	none
MME	4407	3d Additive Manufacturing	PHYS 2421*	none
MME	4413	Structural Characterization	MME 3407*	none
MME	4419	MME Design and Practice	MME 3407* & MME 4303* & CE 2326*	none
Other Required Courses				
MECH	2342	Electro Mechanical Systems	MATH 1312*	none