

Minor in Materials Science and Engineering

Name	Materials Science and Engineering				
Description	Materials Science and Engineering is an interdisciplinary subject that makes use of knowledge from Physics, Chemistry, Engineering, Mathematics, Biology and Biotechnology, but which has its own special character. It is always evolving - new and exciting materials such as nanomaterials, high-temperature and lightweight materials, green materials and sustainable biomaterials for tissue engineering are continually emerging. The field of Material Science combines a wide knowledge base and puts it to diverse practical and commercial use.				
Courses & Units Required	5 courses (min) 15 units (min)				
Core	Course Number	Course Title	L	P	U
	CHE F243 / ME F213	Materials Science and Engineering	3 2	0 0	3 2
	MST F 331	Materials Characterization	3	1	4
	MST F 332	Materials Processing	3	0	3
Electives (minimum of 2 courses and additional units required to make the total to 15)	CHEM F336	Nanochemistry	3	1	4
	CHEM F326	Solid State Chemistry	3	0	3
	MST F339	Polymer Materials	3	0	3
	CHEM F223	Colloidal and Surface Chemistry	3	0	3
	BITS F416	Introduction to Nanoscience	3	0	3
	PHY F414	Physics of Advanced Materials	3	1	4
	PHY F416	Soft condensed Matter Physics	3	1	4
	ME F452	Composite Materials and Design	3	0	3
	CHE F433	Corrosion Engineering	3	0	3
	MST F334	Materials for Catalytic Applications	3	0	3
	MST F336	Glass Technology	3	0	3
	MST F333	Introduction to Biomaterials	3	0	3
	MST F337	Materials for Energy Applications	3	0	3
	MST F335	Coating and thin film technology	3	0	3
	MST F338	Metals and Alloys	3	0	3