

MATE130070	材料化学实验	学分：3	周学时：4
	Experiments of material chemistry	总学时：72	
预修课程：材料分析化学  合成化学实验  高分子化学  高分子物理			
修读对象：材料科学系材料化学专业学生			

#### 中文课程简介（150 字以内）

材料化学实验是研究性实验，包括两个无机材料（羟基磷酸钙、荧光材料  $\text{YBO}_3:\text{Eu}$ ）和两个有机材料（甲基丙烯酸甲酯与苯乙烯共聚物、内墙涂料乳胶漆）合成方案的设计、表征和性能测试，使材料化学专业毕业的学生初步掌握某些无机材料、高分子材料的一些基本的制备方法以及相应的表征和性能测试手段，并且培养学生基本的材料化学研究能力。

#### 英文课程简介

Experiments of Material Chemistry is a course of research experiments, including preparation of two inorganic materials (Hydroxyapatite, Fluorescent material  $\text{YBO}_3:\text{Eu}$ ) and two organic materials (methyl methacrylate and styrene copolymer, Inner wall coating latex paint) and their characterizations and performance tests. Through the course, graduate students in materials chemistry may have preliminary knowledge of some basic methods of material preparation and determination methods of the structure and physical properties, and be fostered in basic material chemistry research ability.