

MATE130005	材料化学	学分：2	周学时：2
	Materials Chemistry	总学时：36	
预修课程：普通化学、物理化学			
修读对象：材料化学专业本科四年级			

中文课程简介（150 字以内）

基本内容：材料的晶体结构基础, 材料化学的基本原理(点缺陷, 扩散, 固溶体, 相变), 新型功能材料(离子导体, 磁性材料, 光学材料)和材料制备的共性技术。
 基本要求：掌握晶态材料结构的理论基础, 掌握材料化学的基本原理, 了解材料性能与结构的关系, 了解典型的功能材料和材料制备的若干共性技术。

英文课程简介

Main contents: basic knowledge of various crystal material structure, the basic principles of materials chemistry (point defects, diffusion, solid solution, phase transformation), new functional materials (ion conductors, magnetic materials, optical materials) and generic technology in preparation of materials.
 Basic requirements: to master the basic theory of various crystal material structure, and master the basic principles of materials chemistry to understand the relationship between material properties and structure, and know some typical functional materials and some generic technology in preparation of materials.