

MATE130061	材料制备与加工	学分：3	周学时：3
	Preparation and Processing of Materials	总学时：54	
预修课程：			
修读对象：材料系本科生			

中文课程简介（150 字以内）

该课程主要讲授四大材料(金属材料、无机非金属材料、高分子材料、复合材料)的制备科学原理、常规生产工艺和加工成型方法，以及薄膜材料的制备与加工方法；初步了解近年来热点先进材料(如纳米材料、生物材料、能源材料等)的制备方法和材料的先进加工技术(如薄膜图形化技术、电磁场快速连续铸轧等)。

英文课程简介

This course mainly involves the preparation principle, conventional production method and processing of metals, ceramics, polymers and composites. The materials in term of film are especially focused. In addition, the preparation of some advanced materials, such as nanomaterials, biomaterials, energy materials, as well as the advanced processing techniques, are briefly introduced.