

MATE130072	金属学	学分：2	周学时：2
	Metallography	总学时：36	
预修课程：大学物理、物理化学、材料科学导论			
修读对象：材料科学大类			

#### 中文课程简介（150 字以内）

金属学是功能材料方面的选修课程之一，着重阐述金属与合金的化学成分、组织、结构与性能之间的关系以及在各种条件的变化规律，比较系统地介绍金属与合金的晶体结构、晶体缺陷、凝固、扩散与相变、塑性变形、回复与再结晶、相图及热处理原理等内容。

#### 英文课程简介

Course contents: Metallography is an optional course in respect of functional materials, focusing on the relationship between the chemical composition, organization, structure of metals and alloys and their performances, as well as the variation rules under different conditions. It systematically introduces the crystal structures, crystal defects, solidification, diffusion and phase transformation, plastic deformation, recovery and recrystallization of metals and alloys, and it also involves the phase diagram and heat treatment principles.