

MATE110019	薄膜设备与工艺概览	学分：2	周学时：2
	Introduction of Thin Film Instruments and Process	总学时：36	
预修课程：			
修读对象：理工科本科生			

中文课程简介（150 字以内）

薄膜技术是现代工业，特别是微电子、光电子产业的基础。本课程系统地介绍当前薄膜与器件制备的主流先进装备与技术，涉及基板处理、薄膜的制备及加工技术，器件的结构、制备和表征技术。让学生了解当前微电子、光电子领域科研和工业生产中正在使用的最先进的装置和薄膜制备技术。

英文课程简介

Thin film technology is the basis of microelectronics and optoelectronics industry. This course introduces the mainstream of modern instruments and technologies for thin film and devices, including substrate treatment, thin film preparation and fabrication, structure, preparation, characterization of devices. The students will understand the advanced instruments and processes for thin film preparation in microelectronics and optoelectronics and industrial production areas.