

## 课程大纲

### COURSE SYLLABUS

1.	<b>课程代码/名称</b> Course Code/Title	<b>MSE5007 现代材料科学与技术前沿 I</b> Seminars on Frontiers of Modern Materials Science and Technology I
2.	<b>课程性质</b> Compulsory/Elective	专业核心课
3.	<b>课程学分/学时</b> Course Credit/Hours	1/16
4.	<b>授课语言</b> Teaching Language	英文/English
5.	<b>授课教师</b> Instructor(s)	于严淏副教授、李磊副教授
6.	<b>是否面向本科生开放</b> Open to undergraduates or not	否
7.	<b>先修要求</b> Pre-requisites	无
8.	<b>教学目标</b> Course Objectives	
	<p>本课程旨在帮助学生了解材料科学与工程领域前沿性研究，拓宽学生的知识面和学术视野，培养其学科敏锐性和创新能力。通过一系列的讲座，学生们将了解最新的材料科学理论、新型的加工技术及工艺，以及材料科学与工程领域尖端的先进研究。</p> <p>This course is in the form of seminar series and aims to highlight the advanced research in fields of materials science and engineering. This course is designed to broaden students' knowledge of materials science and engineering, focuses on theories, novel processing methods and the cutting edge research in materials science and engineering.</p>	
9.	<b>教学方法</b> Teaching Methods	
	<p>Weekly/biweekly seminars on frontiers of materials science and engineering. 每周或每两周安排一次材料科学与工程领域的前沿讲座。</p> <p>Professors with high reputation in the field of materials science and engineering will be invited to deliver lectures and share their research experiences with the student. 本课程将邀请材料科学与工程领域颇负盛名的专家教授来校为学生们开展学术讲座并分享他们的科研经历。</p> <p>Students' insights will be highly broadened through seminars with high quality, and their research interests will be greatly motivated by face-to-face communication with well-known experts in the related areas. 高品质的学术讲座将会极大地拓宽学生们的学术视野，与本领域知名专家面对面的交流也会进一步激发学生们的科研兴趣。</p>	
10.	<b>教学内容</b> Course Contents	
	<b>Section 1</b>	<p>Each invited professor will deliver an one- or two-hour seminar on frontiers of materials science and engineering. 每位专家教授将会就材料科学与工程领域前沿课题做一到两个小时的学术报告。</p> <p>For each semester, at least 16 professors will be invited to give lectures. 每个学期计划邀请至少 16 位专家教授来校开展本领域学术前沿讲座</p>
11.	<b>课程考核</b> Course Assessment	
	Attendance (20%) + Performance (20%) + Reading and report (60%)	

12. 教材及其它参考资料

**Textbook and Supplementary Readings**

A list of references related to the seminar topic will be provided by each invited professor at least one week before the proposed seminar time.