

课程大纲 COURSE SYLLABUS

1.	课程代码/名称 Course Code/Title	MAT7091 应用数学专题 Topics in Applied Mathematics
2.	课程性质 Compulsory/Elective	选修 elective
3.	课程学分/学时 Course Credit/Hours	3/48
4.	授课语言 Teaching Language	根据学生的情况可以是英文、中文或者两者相结合。
5.	授课教师 Instructor(s)	王晓明教授、Alexander Kurganov 教授、李景治教授、张振副教授、吴开亮副教授 Xiaoming Wang, Professor; Alexander Kurganov, Professor; Jingzhi Li, Professor; Zhen Zhang, associate professor; Kailiang Wu, associate professor;
6.	是否面向本科生开放 Open to undergraduates or not	是 Yes
7.	先修要求 Pre-requisites	由授课者定 Required by the instructor
8.	教学目标 Course Objectives	
	介绍科研前沿结果，给学生提出好的科研问题，引导他们到一个活跃的、有发展前途的研究领域。 The course will expose the students to the research front , and provide to them good research problems, leading them to an active and promising research field.	
9.	教学方法 Teaching Methods	
	教学方法: 教师授课，课堂讨论，全班学生分成几个小组，每个小组做一个科研性质的项目(group project) 并做演讲。 Teaching Method: lectures by instructors, in-class discussions, students will be asked to do group projects of research nature and then make presentations.	
10.	教学内容 Course Contents	
	教学内容将是授课教师自己的科研成果及其他人的有关结论，使得整个课程在特定的学期里有一个主旋律。因而内容随授课人的变化而变化，不同学期讲授的内容也会不同。 The course will be centered on the instructor's own research results , plus other researchers' related results, so that the whole course in a fixed semester has a theme/focus. Thus the content of the course will vary from instructor to instructor, and time to time.	
11.	课程考核 Course Assessment	

课堂参与和小组项目及其演讲的表现。

12. 教材及其它参考资料 Textbook and Supplementary Readings

授课者的科研文章及有关的科研文章。