

课程详述

COURSE SPECIFICATION

以下课程信息可能根据实际授课需要或在课程检讨之后产生变动。如对课程有任何疑问,请联系授课教师。

The course information as follows may be subject to change, either during the session because of unforeseen circumstances, or following review of the course at the end of the session. Queries about the course should be directed to the course instructor.

1.	课程名称 Course Title	高级分析讨论班 Senior Analysis Seminar
2.	授课院系 Originating Department	数学系
3.	课程编号 Course Code	MA447
4.	课程学分 Credit Value	1
5.	课程类别 Course Type	专业选修课 Major Elective Courses
6.	授课学期 Semester	春季 Spring
7.	授课语言 Teaching Language	英文 English
8.	授课教师、所属学系、联系方式(如属团队授课,请列明其他授课教师) Instructor(s), Affiliation& Contact (For team teaching, please list	刘博辰,数学系,邮箱 : <u>liubc@sustech.edu.cn</u> Bochen Liu, Department of Mathematics, Email: liubc@sustech.edu.cn
9.	all instructors) 实验员/助教、所属学系、联系 方式 Tutor/TA(s), Contact	待公布 To be announced
10.	选课人数限额(可不填) Maximum Enrolment (Optional)	



	授课方式	讲授	习题/辅导/讨论	实验/实习	其它(请具体注明)	总学时	
	Delivery Method	Lectures	Tutorials	Lab/Practical	Other (Please specify)	Total	
	学时数		1				
	Credit Hours						
	先修课程、其它学习要求	复变函数(N		(MA301)			
	Pre-requisites or Other Academic Requirements	Complex A	Complex Analysis(MA202), Real Analysis(MA301)				
	后续课程、其它学习规划 Courses for which this course is a pre-requisite						
	其它要求修读本课程的学系 Cross-listing Dept.						
		教学	大纲及教学日历:	SYLLABUS			
	教学目标 Course Objectives						
	为有兴趣的高年级本科生提供分	析方向必修证	果基础之上的介绍。				
	This course provides interested						
16. 预达学习成果 Learning Outcomes							
通过本课程的学习,学生能够对必修课基础之上的分析有一定的了解,为将来读研甚至从事分析方面的研究打下基础。							
After taking course, students will know something about analysis beyond compulsory courses, and get prepared graduate study and even research on analysis in the future.						prepared	

Course Contents (in Parts/Chapters/Sections/Weeks. Please notify name of instructor for course section(s), if this is a team teaching or module course.)



18.

山 耕 Attendence			20		
评估形式 Type of Assessment	评估时间 Time	课程评估 ASSESSI 占考试总成绩百分比 % of final score	MENT 违纪处罚 Penalty	备注 Notes	
2.Fourier Analys	sis and Hausdorff Dimo	ension, by Pertti Mattila,Ca	ambridge Univ	ersity Press,2015.	
1.Real Analysis	, by Elias Stein and Ra	ami Shakarchi,世界图书出	版公司,2012.		
教材及其它参考	资料 Textbook and S	upplementary Readings			
	-				
	of general sets and me				
	sures and intersection	, ,			
	nension of projections rojections and Sobole	and distance sets (4 H)			
3. Fourier transf	, ,				
2. Measure theo	oretic preliminaries (4 F	H)			
1. Abstract mea	sure and integration th	neory (4 H)			

19.	评估形式 Type of Assessment	评估时间 Time	占考试总成绩百分比 % of final score	违纪处罚 Penalty	备注 Notes
	出勤 Attendance			20	
	课堂表现 Class Performance			20	
	小测验 Quiz				
	课程项目 Projects				
	平时作业 Assignments				
	期中考试 Mid-Term Test				
	期末考试 Final Exam				
	期末报告			60	



	Final Presentation 其它(可根据需要改写以上评估方式) Others (The above may be modified as necessary)							
20. 记分方式 GRADING SYSTEM								
		□ A. 十三级等级制 Letter Grading ☑ B. 二级记分制(通过/不通过) Pass/Fail Grading						
课程审批 REVIEW AND APPROVAL								
21. 本课程设置已经过以下责任人/委员会审议通过 This Course has been approved by the following person or committee of authority								