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	群、图与地图讨论班 Seminar on Groups, Graphs and Maps
2.	授课院系 **Originating Department**	数学系 Department of Mathematics
3.	课程编号 **Course Code**	MA446
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 all instructors**）	李才恒 Cai Heng Li
9.	实验员/助教、所属学系、联系方式 **Tutor/TA(s), Contact**	无 NA
10.	选课人数限额(可不填) **Maximum Enrolment** （**Optional**）	

11.	授课方式 **Delivery Method**	讲授 **Lectures**	习题/辅导/讨论 **Tutorials**	实验/实习 **Lab/Practical**	其它(请具体注明) **Other（Please specify）**	总学时 **Total**
	学时数 **Credit Hours**	32				32

12.	先修课程、其它学习要求 **Pre-requisites or Other Academic Requirements**	MA321 群表示论 Group Representation Theory
13.	后续课程、其它学习规划 **Courses for which this course is a pre-requisite**	
14.	其它要求修读本课程的学系 **Cross-listing Dept.**	

<div align="center">教学大纲及教学日历 SYLLABUS</div>

15. 教学目标 Course Objectives

This course is a series of seminars in group theory as well as some related areas, especially its applications on transitive graphs and maps. The main purpose of this course is to introduce some research topics in this area.

16. 预达学习成果 Learning Outcomes

Students will learn how to do with research problems and find some topics they are interested in.

17. 课程内容及教学日历 （如授课语言以英文为主，则课程内容介绍可以用英文；如团队教学或模块教学，教学日历须注明主讲人）
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.)

1. Permutation Groups and Finite Simple Groups (6 H)

2. Transitive Graphs (8 H)

3. Topics on Transitive Graphs and Maps (8 H)

4. Talks on Other Research Topics (10 H)

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

1. Permutation Groups (GTM 163) by John D. Dixon and Brian Mortimer,Springer,2012.
2. Permutation Groups by Peter Cameron, Cambridge University Press,2009.
3. Algebraic Graph Theory (GTM 207) by Chris Godsil and Gordon Royle,Springer,2001.

课程评估 ASSESSMENT

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				
课堂表现 Class Performance				
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		100		

Final Presentation		4	
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