

Subject (English)	Mathematics B		Semester	Spring	Day/Slot	Thu./1st 8:50 – 10:00
科目名 (日本語)	数学 B					
Course Code	SB1117	Course Numbering	SMA-MAT802E		Period	Apr. 11 – Jul. 25, 2019
Instructor (Post)	Isamu IWANARI, Shohei HONDA, Tsukasa IWABUCHI (Assoc. Prof.) (Prof.) (Assoc. Prof.)			Campus	Aobayama Kita	
				Building	<a href="#">Mathematics Building</a>	
Faculty	Faculty of Science		Credits	2	Class Room	Room 107
Class subject		Introduction to Advances Mathematics				
Object and summary of class						
The aim of this course is to discuss various topics on modern mathematics. Each lecturer gives about 5 lectures of each topic.						
Keywords		-				
Goal of study						
In this course we study several topics in advanced or basics of mathematics. Students are expected to gain a perspective of modern mathematics and how it is useful to understand mathematical phenomenon.						
Contents and progress schedule of class						
Each of three professors will give five lectures on different topics:						
No	Date	Instructor	Topics			
1	4/11	Isamu IWANARI (Assoc. Prof.)	Symmetries in numbers and geometry			
2	4/18		Examples of groups			
3	4/25		Abstract groups I			
4	5/9		Abstract groups II			
5	5/16		Advanced topic			
6	5/23	Shohei Honda (Prof.)	Space forms			
7	5/30		Cosine formula			
8	6/6		Gauss-Bonnet formula			
9	6/13		Euler numbers			
10	6/20		Applications			
11	6/27	Tsukasa Iwabuchi (Assoc. Prof.)	Introduction and Fourier coefficients			
12	7/4		Fourier series and Fourier transform			
13	7/11		Examples			
14	7/18		Point-wise convergence of Fourier transform			
15	7/25		Application to partial differential equations			
Preparation		Nothing Special				
Record and evaluation method			Report and attendance			
Textbook and references			No textbook assigned and we will give suitable references at each lecture.			
Self study		Review by lecture note.				
In addition		-				