

<b>(Course Title)</b> Mathematics in Kyoto iUP preparatory course	<b>(Course offered period)</b> 2 <sup>nd</sup> Semester <b>(Numbers of weekly frame)</b> Two
<b>(Affiliated department)</b> Institute for Liberal Arts and Science <b>(Job title)</b> Professor <b>(Name)</b> TSUTSUMI, Yoshio	<b>(Class style)</b> Lecture <b>(Eligible students)</b> Students of Kyoto iUP Preparatory course <b>(Day/period)</b> Thursday/ 1 and 2
<b>(Outline and Purpose of the Course)</b> The purpose of this course is to teach Kyoto iUP students the knowledge of the graduation level mathematics of Japanese high school. In the course, the lectures and exercises for almost all area of mathematics are treated.	
<b>(Course Goals)</b> The goal is to acquire the mathematical knowledge which is equivalent to the graduates of Japanese high school, e.g. to acquire the knowledge and skills to solve the EJU level problems. EJU: Examination for Japanese University Admission for International Students	
<b>(Course schedule and Contents)</b> The lectures and exercises of following topics will be executed. Function, Trigonometric Functions, Vector, Complex Numbers and Complex Plane, Calculus (Differentiation), Calculus (Integration), Sets and Proofs, Number of Outcomes, Combinatorics, Probability, Sequences and Series. For students planning to enroll the faculties related to social science, statistics will be taught instead of advanced calculus.	
<b>(Class requirement)</b> Students in the Kyoto iUP preparatory course	
<b>(Evaluation methods and policy)</b> The final examination is used to evaluate the progress.	
<b>(Regarding studies out of class (preparation and review))</b> The preparation is requested if there are some unknown knowledge in the basic contents in the material distributed beforehand. The homework must be submitted till the specified date. The student who submitted the specified exercise problem beforehand will be exempt from the participation in the lecture. Such students must attend “Advanced Mathematics in Kyoto iUP preparatory course.”	
<b>(Others (office hour, etc.))</b> Based on a student's understanding level, the interview with students will be scheduled temporarily.	
<b>(Textbook)</b> The original material prepared by the teacher is uploaded to PandA before each lecture.	
<b>(References)</b> The additional material will be assigned to the students whose understanding level is insufficient.	
<b>(Related URL)</b>	

<b>(Course Title)</b> Advanced Mathematics in Kyoto iUP preparatory course	<b>(Course offered period)</b> 2 <sup>nd</sup> Semester <b>(Numbers of weekly frame)</b> One
<b>(Affiliated department)</b> Institute for Liberal Arts and Sciences <b>(Job title)</b> Professor <b>(Name)</b> TSUTSUMI, Yoshio	<b>(Class style)</b> Lecture and Exercise <b>(Eligible students)</b> Students of Kyoto iUP Preparatory course <b>(Day/period)</b> Friday/2
<b>(Outline and Purpose of the Course)</b> The purpose of this course is to teach Kyoto iUP students the knowledge of mathematics which is required to pass the entrance examination of Kyoto University. In the course, the lectures and exercises for almost all area of mathematics are treated.	
<b>(Course Goals)</b> The goal is to acquire the knowledge of solving problems higher than the EJU level. EJU: Examination for Japanese University Admission for International Students	
<b>(Course schedule and Contents)</b> The lectures and exercises of following topics will be executed. Function, Vector, Trigonometric Functions, Complex Numbers and Complex Plane, Calculus (Differentiation), Calculus (Integration), Sets and Proofs, Number of Outcomes, Combinatorics, Probability, Sequences and Series. The students will learn how to solve the past examination problems of Kyoto University which cover these topics. The problems and the answers will be uploaded to Panda system.	
<b>(Class requirement)</b> Students in the Kyoto iUP preparatory course	
<b>(Evaluation methods and policy)</b> No performance evaluation.	
<b>(Regarding studies out of class (preparation and review))</b> The problems are presented on Panda system one week before each lecture. The students are advised to try to solve those problems by yourselves. Some of problems are explained by the students and others are explained by the teacher. Students exempt from Mathematics in Kyoto iUP preparatory course must attend this class.	
<b>(Others (office hour, etc.))</b> The students are informed when office hours are held.	
<b>(Textbook)</b> The original material prepared by the teacher is uploaded to Panda before each lecture. No text is used.	
<b>(References)</b> References are presented during the class if necessary.	
<b>(Related URL)</b>	