

Course number		Name of the Course			Japanese Name	
HE40151		Clinical Pathophysiology			臨床病態学	
Class		Unit	Module	Week	Time	Room
3,4 year		2 unit	Autumn A B	Tue	1&2 hour	4B-209
Instructors (Office・Tel・email・Office hour)						
Haruhiko NINOMIYA, MD, PhD (4B-406) (pm 1:00・pm 5:00)						
Objectives						
○ To obtain the basic knowledge about the pathophysiology of major disorders.						
Language: ☒ / ☐ Japanese、 ☒ English、 ☐ Bilingual						
	Date	Name of instructor		Lecture outline		
1	10/3	H. Ninomiya		Fundamentals		
2	10/17	H. Ninomiya		Temperature, Energy		
3	10/24	H. Ninomiya		Blood		
4	10/31	H. Ninomiya		Respiration, Acid-Base Balance		
5	11/7	H. Ninomiya		Kidney, Salt and Water Balance		
6	11/14	H. Ninomiya		Stomach, Intestines, Liver		
7	11/21	H. Ninomiya		Heart and Circulation		
8	12/5	H. Ninomiya		Metabolism		
9	12/12	H. Ninomiya		Hormones		
10	12/19	H. Ninomiya		Neuromuscular and Sensory System		
Levels for credit needed		moderate				
Text and materials		Color Atlas of Pathophysiology (Silbernagl & Lang) 2 nd Ed. (Thieme)				
Grade evaluation		End-term examination				
Remarks : e-learning assist via “manaba” (https://manaba.tsukuba.ac.jp/) @Auto-video recording system-equipped classroom (4B-209)						