Course	Exerc	Exercise Physiology			Hiroyuki Imamura			
Type of course	Lecture	Credits	2credits	Semester • Period	1st	• 2nd year Spring	Compulsory • Elective	Elective
			Air	m of Course				
Exercise phys	siology is an	evaluation	n of the acut	e responses and le	onger-	term adap	tations of th	e body to th
stress of physi	cal exercise.	The aim of	this course i	is to understand a	nd dis	cuss appli	cation of res	earch method
in the field of	f exercise ph	ysiology t	o athletic p	erformance, sport	s nuti	rition, an	d health and	diseases.
		Attain	ment target of	Course		Evaluation method		Ratio of Evaluation
Interest • Motivatio • Attitude	on To be able to demonstrate achievements of study by presention a presentation				presentat	ion	25%	
Consideration • Judgement	To be able t	To be able to present a review of literature.				presentation		25%
Skill • Expressior	n							
Knowledge • Understanding	To be able t	To be able to write short review paper. paper			itten review	50%		
			Attend	ance				Required to take exam
Total Score					100%			
			Over	view of course				
This course data. The final				oposal of a resea required.	ırch qı	uestion, c	ollection and	l analysis o
			Textbook	Reference book				
教科書:rela	ted original	papers.						
参考書:Brood	ks GA, Fahey	TD, and Wh	ite TP: Exer	cise Physiology:	Human	Bioenerge	tics and Its	Application
Mayfield Pub	lishing Co.							
		Out o	f class learning	and expectations for	r studer	nts		
This course is conducted in English, students are expected to have some knowledge of exercise physiology,								
sports nutritio	on, and healt	h sciences						

#	Topic	Details	Preparation • Review	
1			Review the syllabus	
1	Introduction	Introduction of this course	Read Statistics (1)	
			Review the Statistics (1)	
2	Statistics (1)	Statistical analysis in athletic performance	Read Statistics (2)	
2	Statistics (2)		Review the Statistics (2)	
3		Statistical analysis in sports nutrition	Read Statistics (3)	
4	Statistics (3)		Review the Statistics (3)	
4		Statistical analysis in health science	Read Athletics (1)	
5	Athletics (1)		Review the Athletics (1)	
0		Principles of skeletal muscle adaptations	Read Athletics (2)	
6	Athletics (2)		Review the Athletics (2)	
		Energetics and athletics	Read Athletics (3)	
7	Athletics (3)	Maria and a surface of	Review the Athletics (3)	
		Motor units recruitment	Read Sports Nutrition (1)	
8	Sports Nutrition (1)		Review the Sports Nutrition (1)	
		Nutrition and athletic performance	Read Sports Nutrition (2)	
9	Sports Nutrition (2)	Muscle glycogen and carbohydrate loading	Review the Sports Nutrition (2)	
Ŭ		muscle glycogen and carbonydrate loading	Read Sports Nutrition (3)	
10	Sports Nutrition (3)	Blood lipids and lipoproteins in sports players	Review the Sports Nutrition (3)	
10	Sports Nutrition (3)	blood lipids and lipoproteins in sports players	Read Exercise and Health	
11	Exercise and Health	Exercise and Health Development	Review the Exercise and Health	
	Exercise and nearth	Exercise and nearth Development	Read Exercise and Lipids	
12	Exercise and Lipids	Exercise and hyperlipidemia	Review the Exercise and lipids	
12	Exercise and Lipids		Read Exercise and Obesity	
13	Exercise and Obesity	Exercise and obesity and body composition	Review the Exercise and Obesity	
10		Exercise and obesity and body composition	Read Exercise and Diabetes	
14			Review the Exercise and	
	Exercise and Diabetes	Exercise and diabetes	Diabetes	
			Read Exercise and asthma	
15	Exercise and asthma	Exercise and exercise-induced asthma	Review the Exercise and asthma	
16	Conclusion	General discussion	Submit the short review paper	