Common Subjects

ırse Numb	Course Name	授業 方法	Credit s	Standa rd Academ ic Year	Course Offering Term	Weekday and Period	Classro om	Instructor	Course Overview	Remarks
D2EX002	Introduction to Medical Research	1	1.0	1, 2	SprAB	Thu/Fr i 7. 8	4A203	Chair and Chief of the Academic Committee of Clinical Sciences, Tetsuak i Arai, Koichi Hashimoto, Hideo Tsurushima, Yuich i Hasegawa, Yoshihi ro Arakawa	This course provides the opportunities for the students to learn the essential knowledge of the physical- and chemical- hazard, bio-hazard, information security, research ethics, and legal requirements, and also to understand how to use the research facilities and equipments on biomedical research.	Compulsory
02EX003	Seminar in Medical Sciences	2	3.0	1, 2	Annual	by appoint ment		Chair and Chief of the Academic Committee of Clinical Sciences	Students attend 3 or more designated 'seminars in medical sciences' and participate in discussion. In addition, students will deepen their understanding by reading original research papers in a related field, by conducting a discussion about its contents with their advising faculty, and by writing papers.	Compulsory
02EX004	Special Studies on Medical Sciences	2	2.0	1, 2	Annual	by appoint ment		Chair of Clinical Sciences,Researc h supervisors	Students learn fundamental knowledges required to set their PhD research subjects and how to obtain them under the instruction of their research supervisors. Then the students determine their research subjects as well as the methods to fulfill their research questions. The students then submit necessary applications for the PhD research, and make up a prospect for completing the dissertation.	Compulsory
02EX005	Special Practice in Medical Sciences	2	5.0	1, 2	Annual	by appoint ment		Chair of Clinical Sciences,Researc h supervisors	Students will learn how to analyze the research results and to understand the significance of the results under the supervision of professors. Students will also plan and perform the next research process and repeat this cycle.	Compulsory
02EX007	International Practical in Medical in Sciences	1	3. 0	1 - 4	Annual	by appoint ment		Shigeru Chiba	Through presentations of research results at international academic conferences and training abroad, students will acquire language ability and learn presentation methods while experiencing internationally recognizable research by holding discussions with researchers overseas. Furthermore, students will participate actively in discussiona and educational research abroad as well as practice teaching in English.	Lectures are conducted in English.
02EX008	Seminar in Clinical Research	2	3.0	1, 2	Annual	by appoint ment		Chair of Clinical Sciences,All faculty members	To obtain the fundamental knowledge required to conduct clinical studies, students will read original research and review papers and become proficient in explaining their contents. In addition, students will learn how to apply such knowledge to their own research theme.	
)2EX009	Advanced Seminar in Medical Sciences	1	3.0	1, 2	Annual	by appoint ment		Tetsuaki Arai,Faculty in Clinical Sciences	Students will attend lectures about the new concepts and technologies underlying research in the post-genome-era medical and biological sciences and will engage in discussions on their contents.	
	Lecture on Critical Path Research Management	1	2.0	1, 2	FallABC	Mon6, 7	4F204	Koichi Hashimoto, Hideo Tsurushima, Takah iro Kojima	This course aims to equip students with an understanding of the process of critical path research and translational research, so as to translate basic research findings more quickly and efficiently into medical practice.	Lectures are conducted in English.

urse Numb	Course Name	授業 方法	Credit s	Standa rd Academ ic Year	Course Offering Term	Weekday and Period	Classro om	Instructor	Course Overview	Remarks
02EX011	Training in Medical Science Education	3	1.0	2, 3	Annual	by appoint ment		Chair of Clinical Sciences,Researc h supervisors	In this subject, students firstly need to understand i) the objectives of the student education of this Doctoral Program, and ii) the role of each course toward achieving the objectives. Then, the students will join in iii) preparing the syllabus of a certain course together with supervisors, iv) give lecture in the course, and v) evaluate participants in the course. The students will be evaluated by the participants of the course which you will join in.	
02EX013	Communication with foreign medical professionals	2	2.0	1, 2	FallABC	Tue6		Yukiko Wagatsuma	This discussion seminar is open to all students in the medical program including international students. We will read current issue articles in publications such as Nature, and students will be encouraged to think about and express opinions about those issues. The focus will be the medical field and how it connects to broader social, economic, and political matters.	医学学系棟121で実 施。 Lectures are conducted in English.
02EX014	English Topics in Science I	2	1.0	1 – 4	SprAB	Tue4		Bryan James Mathis	To reinforce English vocabulary and fluency in discussing scientific concepts in a diverse array of research fields while introducing cutting edge technologies. Students will develop critical thinking and questioning skills for use in conferences, presentations and daily scientific work.	Conducted in the classroom Gakkei to 463. Lectures are conducted in English.
02EX015	English Topics in Science II	2	1.0	1 - 4	FallAB	Tue4		Bryan James Mathis	To reinforce English vocabulary and fluency in discussing scientific concepts in a diverse array of research fields while introducing cutting edge technologies. Students will develop critical thinking and questioning skills for use in conferences, presentations and daily scientific work.	Conducted in the classroom Gakkei to 463. Lectures are conducted in English.
Spcializ	zed Sciences							I	I	L
urse Numb	Course Name	授業 方法	Credit s	Standa rd Academ ic Year	Course Offering Term	Weekday and Period	Classro om	Instructor	Course Overview	Remarks
02EX259	Special Studies on Medical Sciences	2	2.0	1, 2	Annual	by appoint ment		Chair of Clinical Sciences,Researc h supervisors	To decide their future research direction and to finally prepare for publication of their research in a biomedical journal, students will study through practical discussion on the background, purpose, methods, results, discussion, and conclusions of ongoing research in each group.	Compulsory

urse Numb	Course Name	授業 方法	Credit s	Standa rd Academ ic Year	Course	Weekday and Period	Classro om	Instructor	Course Overview	Remarks
02EX260	Lecture and Discussion in Clinical Pathophysiology I	1	2.0	1, 2	SprABC	by appoint ment				
02EX261	Lecture and Discussion in Clinical Pathophysiology II	Ţ	2.0	1, 2	FallABC	by appoint ment		Tetsuaki Arai, Shinji Sato, Hideyuki Sakurai, Tomonori Isobe, Hirokazu Tachikawa, Makoto Tanaka, Yoshiaki Inoue, Masato Homma, Tetsuhiro Maeno, Shoji Yokoya, Hiroyuki Kobayashi, Yukiko Wagatsuma, Masahi ko Gosho, Koichi Hashimoto, Yoshih iro Arakawa, Tomoyosh i Koyanagi, Satoshi Matsusaka, Hiroyu ki Ito, Hisashi Narimatsu, Norima sa Miyamoto		

urse Numb	Course Name	授業 方法	Credit s	Standa rd Academ ic Year	Course	Weekday and Period	Classro om	Instructor	Course Overview	Remarks
02EX262	Seminar in Clinical Pathophysiology I	2	2.0	1, 2	Spr ABC	by appoint ment				
02EX263	Seminar in Clinical Pathophysiology II	2	2.0	1, 2	FallABC	by appoint ment				

urse Numb	Course Name	授業 方法	Credit s	Standa rd Academ ic Year	Course	Weekday and Period	Classro om	Instructor	Course Overview	Remarks
02EX264	Practice in Pathophysiology I	3	2.0	1, 2	SprABC	by appoint ment				
02EX265	Practice in Pathophysiology II	3	2.0	1, 2	FallABC	by appoint ment				

urse Numb	Course Name	授業 方法	Credit s	Standa rd Academ ic Year	Course Offering Term	Weekday and Period	Classro om	Instructor	Course Overview	Remarks
02EX270	Lecture and Discussion in Surgery I	1	2.0	1, 2	SprABC	by appoint ment				
02EX271	Lecture and Discussion in Surgery II	1	2. 0	1, 2	FallABC	by appoint ment		Hirovuki		
02EX272	Seminar in Surgery I	2	2.0	1, 2	SprABC	by appoint ment		Hirovuki		

urse Num	: Course Name	授業 方法	Cradit	Standa rd Academ ic Year	Course	Weekday and Period	Classro om	Instructor	Course Overview	Remarks
02EX273	Seminar in Surgery II	2	2.0	1, 2	FallABC	by appoint ment				
02EX274	Practice in Surgery I	3	2.0	1, 2	SprABC	by appoint ment				
02EX275	Practice in Surgery II	3	2. 0	1. 2	FallABC	by appoint ment		Hirovuki		

urse Numb	Course Name	授業 方法	Credit s	Standa rd Academ ic Year	Course	Weekday and Period	Classro om	Instructor	Course Overview	Remarks
02EX280	Lecture and Discussion in Internal Medicine I	1	2.0	1, 2	SprABC	by appoint ment		Shigeru Chiba, Junichi Shoda, Akinori Yanaka, Makoto Ohara, Kazutaka Aonuma, Masaki Ieda, akira koike, Akiniko Nogami, Satoshi Homma, Takashi Miyauchi, Nobuyuk i Hizawa, Yukio Ishii, Hiroaki Satoh, Akira Tamaoka, Kunihiro Yamggata, Hitoshi Shimano, Hiroaki Yagyu, Takashi Matsuzaka, Yasush i Kawakami, Hidetos hi Takada, Hitoshi Horigome, Ikuo Sekine, Shigemi Hitomi		
	Lecture and Discussion in Internal Medicine II	1	2.0	1. 2	FallABC	by appoint ment		Shigeru Chiba, Junichi Shoda, Akinori Yanaka, Makoto Ohara, Kazutaka Aonuma, Masaki Ieda, akira koike, Akihiko Nogami, Satoshi Homma, Takashi Miyauchi, Nobuyuk i Hizawa, Yukio Ishii, Hiroaki Satoh, Akira Tamaoka, Kunihiro Yamagata, Hitoshi Shimano, Hiroaki Yagyu, Takashi Matsuzaka, Yasush i Kawakami, Hidetos hi Takada, Hitoshi Horigome, Shigemi Hitomi, Ikuo Sekine		

				Standa	Course	Weekdey				
urse Numb	Course Name	授業 方法	Credit s	rd Academ ic Year		Weekday and Period	Classro om	Instructor	Course Overview	Remarks
02EX282	Seminar in Internal Medicine I	2	2.0	1, 2	SprABC	by appoint ment		Shigeru Chiba, Junichi Shoda, Akinori Yanaka, Makoto Ohara, Kazutaka Aonuma, Masaki Ieda, akira koike, Akihiko Nogami, Satoshi Homma, Takashi Miyauchi, Nobuyuk i Hizawa, Yukio Ishii, Hiroaki Satoh, Akira Tamaoka, Kunihiro Yamagata, Hitoshi Shimano, Hiroaki Yagyu, Takashi Matsuzaka, Yasush i Kawakami, Hidetos hi Takada, Hitoshi Horigome, Shigemi Hitomi, Ikuo Sekine		
02EX283	Seminar in Internal Medicine II	2	2.0	1, 2	FallABC	by appoint ment		Shigeru Chiba, Junichi Shoda, Akinori Yanaka, Makoto Ohara, Kazutaka Aonuma, Masaki Ieda, akira koike, Akihiko Nogami, Satoshi Homma, Takashi Miyauchi, Nobuyuk i Hizawa, Yukio Ishii, Hiroaki Satoh, Akira Tamaoka, Kunihiro Yamagata, Hitoshi Shimano, Hiroaki Yagyu, Takashi Matsuzaka, Yasush i Kawakami, Hidetos hi Takada, Hitoshi Horigome, Shigemi Hitomi, Ikuo Sekine		

urse Numb	Course Name	授業 方法	Credit s	Standa rd Academ ic Year	Course Offering Term	Weekday and Period	Classro om	Instructor	Course Overview	Remarks
02EX284	Practice in Internal Medicine I	3	2.0	1, 2	SprABC	by appoint ment		Shigeru Chiba, Junichi Shoda, Akinori Yanaka, Makoto Ohara, Kazutaka Aonuma, Masaki Ieda, akira koike, Akihiko Nogami, Satoshi Homma, Takashi Miyauchi, Nobuyuk i Hizawa, Yukio Ishii, Hiroaki Satoh, Akira Tamaoka, Kunihiro Yamagata, Hitoshi Shimano, Hiroaki Yagyu, Takashi Matsuzaka, Yasush i Kawakami, Hidetos hi Takada, Hitoshi Horigome, Shigemi Hitomi, Ikuo Sekine	The aim of this course is to provide students with methods to conduct research in internal medicine. Each listed professor will organize specific lectures and opportunities for discussion.	
02EX285	Practice in Internal Medicine II	3	2.0	1, 2	FallABC	by appoint ment		Shigeru Chiba, Junichi Shoda, Akinori Yanaka, Makoto Ohara, Kazutaka Aonuma, Masaki Ieda, akira koike, Akihiko Nogami, Satoshi Homma, Takashi Miyauchi, Nobuyuk i Hizawa, Yukio Ishi, Hiroaki Satoh, Akira Tamaoka, Kunihiro Yamagata, Hitoshi Shimano, Hiroaki Yagyu, Takashi Matsuzaka, Yasush i Kawakami, Hidetos hi Takada, Hitoshi Horigome, Shigemi Hitomi, Ikuo Sekine	The aim of this course is to provide students with methods to conduct research in internal medicine. Each listed professor will organize specific lectures and opportunities for discussion.	
02EX293	Lecture and Discussion in Social Medicine I	1	2.0	1, 2	SprABC	by appoint ment		Kazumasa Yamagishi, Tamaki Saito, Nanako Tamiya, Masahide Kondo	The aim of this course is to provide students with methods to conduct research in social medicine. Each listed professor will organize specific lectures and opportunities for discussion.	

urse Numb	Course Name	授業 方法	Credit s	Standa rd Academ ic Year	Course	Weekday and Period	Classro om	Instructor	Course Overview	Remarks
02EX294	Lecture and Discussion in Social Medicine II	1	2. 0	1, 2	FallABC	by appoint ment		Kazumasa Yamagishi,Tamaki Saito,Nanako Tamiya,Masahide Kondo	The aim of this course is to provide students with methods to conduct research in social medicine. Each listed professor will organize specific lectures and opportunities for discussion.	
02EX295	Seminar in Social Medicine I	2	2. 0	1, 2	SprABC	by appoint ment		Kazumasa Yamagishi,Tamaki Saito,Nanako Tamiya,Masahide Kondo	The aim of this seminar is for students to understand the purpose, methods, and results of the most recent research articles on a variety of aspects in social medicine. Moderated by each supervising professor, students will discuss the significance, problems, and future directions of the study.	
02EX296	Seminar in Social Medicine II	2	2.0	1, 2	FallABC	by appoint ment		Kazumasa Yamagishi,Tamaki Saito,Nanako Tamiya,Masahide Kondo	The aim of this seminar is for students to understand the purpose, methods, and results of the most recent research articles on a variety of aspects in social medicine. Moderated by each supervising professor, students will discuss the significance, problems, and future directions of the study.	
02EX297	Practice in Social Medicine I	3	2.0	1, 2	SprABC	by appoint ment		Kazumasa Yamagishi,Tamaki Saito,Nanako Tamiya,Masahide Kondo	The aim of this seminar is for students to understand the purpose, methods, and results of the most recent research articles on a variety of aspects in social medicine. Moderated by each supervising professor, students will discuss the significance, problems, and future directions of the study.	
02EX298	Practice in Social Medicine II	3	2.0	1, 2	FallABC	by appoint ment		Kazumasa Yamagishi,Tamaki Saito,Nanako Tamiya,Masahide Kondo	The aim of this course is to provide students with the principles and methods of research in surgery. Each listed supervising professor will organize a specific field of research.	
02EX230	Methods in Clinical Trials	1	2. 0	1, 2	FallAB	Tue7, 8	4F204	Yukiko Wagatsuma, Masahi ko Gosho	The aim of this course is to teach students the principles and methods of clincial trials and to introduce good clinical practice (GCP).	
02EX231	Biostatistics, Basic	1	1.0	1, 2	SprAB	Wed3	4F204	Masahiko Gosho,Kazushi Maruo	The aim of this course is for students to learn the methods of sampling and statistical analysis frequently used in clinical research.	
02EX292	Biostatistics, Advanced	1	2. 0	1, 2	FallAB	Wed4, 5	4F305	Masahiko Gosho,Kazushi Maruo	Students will learn about survival data analysis that is essential in medical research, and they will apply the method to real clinical data.	
02EX232	Biostatistics in Practice	3	1.0	1, 2	SprAB	Wed6, 7 Wed	4F305	Kazushi Maruo,Masahiko Gosho	This course provides practice in biostatistical analysis using a statistical analysis software.	授業時間は担当教員に 確認のこと。
02EX290	Methods in Epidemiology	1	2.0	1, 2	FallAB	Tue3, 4	4F305	Yukiko Wagatsuma	The fundamental concepts and uses of epidemiology, and its role in formulating principles, are examined. Exercises are conducted in which epidemiological methods are utilized, to promote understanding of the practice of this discipline.	Compulsory