

Major Subjects (Required Courses)

Course Number	Course Name	Instructional Type	Credits	Standard Academic Year	Course Offering Term	Weekday and Period	Instructor	Course Overview	Remarks
HE40011	Medical Microbiology	1	2.0	3, 4	Fall IAB	by appointment	Kazuya Morikawa	This course offers a series of lectures and discussions regarding the molecular mechanisms underlying in bacterial pathogens. Students will learn hot topics and techniques in molecular bacteriology fields.	This course is for foreign students in School of Medical Sciences. Lectures are conducted in English. face-to-face (partially online) Face-to-face classes at first, then online.
HE40061	English Communication for Medical Sciences I	1	3.0	3	Fall IABC	Intensive	Masanori Sakaguchi, Satoru Takahashi, Michito Hamada, Kenji Irie, Norihiko Ohbayashi, Atsushi Kawaguchi, Takashi Matsuzaka, Masatoshi Miyakoshi	This course covers a variety of medical science research topics. Students will learn basic concepts, methodology, and scientific thinking through each research topic.	This lecture is open for only the student of International Medical Science only. Lectures are conducted in English. Details will be announced. face-to-face (partially online)
HE40071	English Communication for Medical Sciences II	1	3.0	4	SprAB SprC	Mon/Fri 1 Mon/Thu 1	Chigusa Oda, Yukihide Watanabe, Yukari Okita, Masafumi Muratani, Cat Khanh Vuong, Takeji Sakae, Hiroaki Kumada, Eiji Mizutani, Tsuyoshi Saito, Masanori Sakaguchi	This course covers a variety of medical science research topics. Students will learn basic concepts, methodology, and scientific thinking through each research topic.	This lecture is open for only the student of International Medical Science only. Lectures are conducted in English. face-to-face (partially online)
HE40081	Topics in Medical Sciences I	1	1.0	3	Fall IAB	Wed3	Kiong Ho	This course helps students to understand the basics of genes and genomes and enable them to develop critical thinking in medical science.	Lectures are conducted in English. Lectures are conducted in English. face-to-face (partially online)
HE40091	Topics in Medical Sciences II	1	1.0	4	SprBC	Tue4	Kiong Ho	This course helps students to understand the recent developments in medical science research by active learning and discussion.	Only International Medical Science Course students. Lectures are conducted in English. face-to-face
HE40102	Seminar on Medical Sciences	2	1.0	3	Fall IBC	by request	Yo Oishi	This course helps students deepen their understanding of the research in medical sciences by proactively investigating issues in medical sciences and coming up with solutions.	This course is for students in the International Medical Science Major. Lectures are conducted in English. face-to-face
HE40112	Research Seminar	2	2.0	3	Fall IBC	by request	Yo Oishi	The students will select their theme from a variety of fields in medical sciences based on their own interests, and participate in research seminar and actual research activity in the laboratory.	Offered exclusively for students in the International Medical Science Major. Lectures are conducted in English. face-to-face

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HE40113	Graduation Research	3	8.0	4	SprABC, FallAB	by request	Yo Oishi	The aim of this course is to learn the knowledge of medical sciences and problem-solving skills through a research in laboratories. The students can select their theme from a variety of fields in medical sciences based on their own interests.	This course is for students in the International Medical Science Major. Lectures are conducted in English. face-to-face
HE40131	Clinical Hematology	1	2.0	3	FallABC	by request	Naoshi Obara	血液の組成、血液の生理的機能、血球の産生とその調節機構、造血因子および造血微小循環などについて教授する。主要な血液疾患の病態生理とその診断のための血液学的検査法の原理と手法、血球の形態学的検査の原理と手法について教授する。白血病の病理的診断(FAB分類)、リンパ腫の病理的診断法を教授する。	Students should obtain permission of the instructor before taking this course. Basically online lessons. Lectures are conducted in English. Online (Asynchronous)
HE40141	Coagulation and Fibrinolysis	1	1.0	3	FallABC	by request	Naoshi Obara	血液の凝固・線溶液系の生理的機構を教授し、その失調に伴う出血傾向や血栓症に関する基本的検査法について教授する。凝固・線溶系の検査法の原理と手法、血小板の機能検査の原理と手法について教授する。	Students should obtain permission of the instructor before taking this course. Basically online lessons. This course for English program students. Lectures are conducted in English. Online (Asynchronous)
HE40151	Clinical Pathophysiology	1	2.0	3	FallAB	by appoint ment		This course introduces the fundamentals of the cell mechanism and abnormalities thereof as well as cell division, cell death, tumor growth and aging. This course then deals with a wide range of topics, from abnormalities of the heat and energy balance, via the pathomechanisms of diseases of the blood, lungs, kidneys, gastrointestinal tract, heart and circulation, and of the metabolism, including endocrinal abnormalities, diseases of skeletal muscle, the senses, and the peripheral and central nervous system.	Students should obtain permission of the instructor before taking this course. This course will not be provided in 2024. Lecture is conducted in English. Lectures are conducted in English.
HE40161	Topics in Vascular Biology	1	1.0	3, 4	FallAB	Intensi ve	Hiromi Yanagisawa, Kenic hi Kimura, Ryutaro Ishii, Raja Erna, 恵一 浅野	To provide basic knowledge and understanding of vascular biology, ranging from normal vascular development and physiology to molecular mechanisms of vascular diseases, as well as novel diagnostic and therapeutic approaches. The course aims to solicit active participation of students in lectures and journal clubs.	原則英語、場合によつては日本語でも授業。Lectures are conducted in English. Details will be announced. face-to-face
HE40201	Immunology	1	2.0	3, 4	Annual	by appoint ment	Chigusa Oda, Kazuko Shibuya, Yu-Hsien Lin	Humans have built a highly integrated immune system as a biological defense mechanism against pathogenic microorganisms. However, infectious diseases are still the greatest threat to humankind even today. On the other hand, abnormalities in the immune system are also an essential cause of intractable diseases such as autoimmune diseases and allergies. In addition, cancers and rejection of transplanted organs are also issues that are directly related to the immune system. This course provides an overview of the immune system.	This course for English program students. Lectures are conducted in English.
HE40231	Clinical pharmacology	1	1.0	3	SprC	by request	Michael Lazarus, Yo Oishi	Learn the mechanisms of various drugs used in clinical practice and understand the indications and contraindications of drugs. Through these studies, students deepen their understanding of physiological functions in living organisms.	This course is for English program students. Lectures are conducted in English. face-to-face
HE40263	Seminar on Medical Sciences	3	1.0	3	Annual	by request	Yo Oishi	This course helps students deepen their understanding of the research in medical sciences by proactively investigating issues in medical sciences and coming up with solutions.	This course for students in the G30 program of the International Medical Science Major. Lectures are conducted in English. face-to-face

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HE40272	Research Seminar	2	2.0	3	Fall/BC	by request	Yo Oishi	The students will select their theme from a variety of fields in medical sciences based on their own interests, and participate in research seminar and actual research activity in the laboratory.	Offered exclusively for students in the G30 program of the International Medical science Major who enrolled in the program in 2020 or later. Lectures are conducted in English. face-to-face
HE40273	Graduation Research	3	8.0	4	Annual	by request	Yo Oishi	The aim of this course is to learn the knowledge of medical sciences and issue-solving skills through a research in laboratories. The students can select their theme from a variety of fields in medical sciences based on their own interests.	This course for English program students. Lectures are conducted in English. face-to-face
HE41170	International Forum on Medical Biology Research	0	1.0	2 - 4	Annual	by request	Kazuya Morikawa	Students will participate in international meeting in the field related to their own research, or participate in research activity in overseas laboratory.	Lectures are conducted in English. face-to-face
HE41175	Training Abroad on Medical Biology	5	1.0	3, 4	Annual	by request	Yuji Funakoshi	Students study at foreign university or enroll in an approved international program regarding medical related field.	Only Medical Sciences students. Lectures are conducted in English. Details will be announced. Online (Synchronous)
HE41181	Workshop for Medical Science Students	1	1.0	3	Fall/C	Wed1,2	Kiong Ho, Thomas David Mayers	The course consists of seminar-style lectures and group discussions to introduce questions and problems in Global Health and Medical Sciences.	Only medical science students enrolled after 2019. Lectures are conducted in English. face-to-face (partially online)
HE41190	International Forum on Medical Biology Research II	0	1.0	2 - 4	Annual	by request	Kazuya Morikawa	Students will participate in international meeting in the field related to their own research, or participate in research activity in overseas laboratory.	Only Medical Sciences students. Lectures are conducted in English. face-to-face
HE41200	International Forum on Medical Biology Research III	0	1.0	2 - 4	Annual	by request	Kazuya Morikawa	Students will participate in international meeting in the field related to their own research, or participate in research activity in overseas laboratory.	Only Medical Sciences students. Lectures are conducted in English. face-to-face
HE41210	International Forum on Medical Biology Research IV	0	1.0	2 - 4	Annual	by request	Kazuya Morikawa	国際学会参加や短期間の調査研究をとおして、海外の担当者あるいは研究者と意見交換し、国際的な研究の動向を把握し、自身のキャリアに活かす。	Only Medical Sciences students. Lectures are conducted in English. face-to-face
HE41215	Training Abroad on Medical Biology II	5	1.0	3, 4	Annual	by request	Yuji Funakoshi	Students study at foreign university or enroll in an approved international program regarding medical related field.	Only Medical Sciences students. Lectures are conducted in English. Online (Synchronous)
HE41220	International Forum on Medical Biology Research V	0	1.0	2 - 4	Annual	by request	Kazuya Morikawa	国際学会参加や短期間の調査研究をとおして、海外の担当者あるいは研究者と意見交換し、国際的な研究の動向を把握し、自身のキャリアに活かす。	Only Medical Sciences students. Lectures are conducted in English. face-to-face
HE41225	Training Abroad on Medical Biology III	5	1.0	3, 4	Annual	by request	Yuji Funakoshi	Students study at foreign university or enroll in an approved international program regarding medical related field.	Only Medical Sciences students. Lectures are conducted in English. Online (Synchronous)

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HE41241	Genetic Testing and Chromosome Analysis	1	1.0	3	SprBC	by request	Emiko Noguchi, Hiroko Miyadera, 綾川崎	Students will learn the basic knowledge of DNA, chromosome and genetics of the diseases through lectures and e-learning. The date of the classes will be announced. The instructor will provide materials (handout, text and e-learning materials) and students are expected to learn the materials prior to the class. At the class, the instructor and students will discuss the contents of the materials provided and students will take short tests.	This course for English program students. Lecture is conducted in English. Details will be announced. Lectures are conducted in English. Details will be announced. face-to-face