

Appended Form 1

Specifications for Major Programs

Name of School (Program) [School of Medicine (Program for Medicine)]

Program name (Japanese)	医学プログラム
(English)	Program for Medicine

1. Degree: Bachelor (medicine)

2. Outline

This program aims to develop human resources who possess ethical values and qualities (consideration, sympathy, devotion, and a sense of mission) suitable as medical professionals, and who have acquired advanced medical knowledge and skills, who conduct research to solve problems on their own initiative, and who will contribute to the improvement of regional health and medicine and to the enhancement of medical standards both inside and outside Japan.

This program consists of eight subject groups according to purpose. In Liberal Arts Education Subjects, students form the foundations for academic research at the university and for social activities, while acquiring the basic knowledge to deepen their understanding of and interests in medical science and medical treatment, and to study medical science in the Introductory Medical Subjects. In Subjects for Basics & General Theory of Medicine, students study the basic medical knowledge required for clinical medicine in a comprehensive fashion. In the first year, although students mainly take liberal arts education subjects, they also begin taking introductory medical subjects and subjects for basics & general theory of medicine. While students take introductory medical subjects and subjects for basics & general theory of medicine in the second year, they go on to take General Subjects for Medicine, in which they study knowledge of clinical medicine required to give medical treatment in a comprehensive way, and Subjects for Social Medicine in the third year. In the first half of the fourth year, students are assigned to laboratories inside and outside the university, and conduct Medical Research Practice in which they engage in actual research activities for four months. Subjects for Teaching Professionalism, intended to impart the attitude, ethics, communication skills, medical teamwork, and medical examination skills, are continuously provided from the first year through the fourth year. From January in the fourth year, students devote themselves to Clinical Practice at medical sites such as the university hospital. In clinical practice, students mainly engage in participatory medical care practice in which they participate in actual medical examination of patients as members of the medical staff. The language used for lectures and practical trainings in this program is Level B (English and Japanese Both).

3. Diploma policies (degree

and decide scientifically, and

7) Have acquired the motivation to continue to improve themselves and the attitude to mentor their successors over their lifetime.

A (medical) Bachelor degree shall be conferred on students who pass the graduation examination and have acquired these abilities through taking all required subjects and by obtaining the prescribed number of credits during the six-year period.

4. Curriculum policies (policies for organizing & providing curricula)

- 1) Aim is for students to form a sense of mission and a sense of responsibility to protect people's health as a professional through clinical practice at actual medical sites from the early stages after admission, and by cultivating the temperament required for a doctor.
- 2) Aim is for students to acquire a comprehensive knowledge free from established concepts in their specialist fields through an integrated lecture system that has been constructed through cooperation between several courses and medical treatment divisions.
- 3) Clinical practice is intended for students to acquire practical knowledge, skills, and the right attitude through participatory medical care practice. Through communicating with actual patients, students will acquire the ability to build good relationships with patients.
- 4) Enable students to fulfill their responsibilities as a team member and to acquire the right attitude to contribute to their team by introducing group studies with the lower classes.
- 5) Enable students to understand the significance and importance of medical research and develop the spirit to voluntarily contribute to the development of medicine by assigning them to laboratories inside and outside the university and allowing them to engage in research activities for a certain period during their fourth year. This program will also improve their abilities in international exchanges through research by allowing students to choose research at an overseas research facility during this period.
- 6) Encourage students to think about health and medical problems in the local community and about the role of doctors by sending them for regional medical practice in medical institutions in various places in the prefecture.
- 7) Enable students to acquire an attitude of self-development and learning in which each student sets problems for themselves based on a related event, and selects what to study through discussion by introducing problem-based PBL tutorials in class subjects in several divisions.
- 8) Enable students to acquire English communication skills by cultivating practical English skills through discussions on medical topics in English and English conversation practice with patients at clinical sites in the third year.

5. Start of the program / Admission conditions

First year (at the time of admission) / To be enrolled in the university as a student on the Program of Medicine, School of Medicine.

6. Qualification(s)

Students will qualify to take the National Medical Practitioners Qualifying Examination after graduating from the Program of Medicine, School of Medicine (including anticipated graduations).

7. Class subjects and class content

* See the Table of Registration Standards on Attached Sheet 1 for your class subjects.

* See the syllabus announced in each fiscal year for the class content.

8. Academic achievements

At the end of each semester, evaluation criteria will be shown with a clear indication of attainment standards according to the evaluation items for academic achievements.

Students' academic achievements from admission to the current semester will be indicated as one of three levels: "Excellent," "Very Good," and "Good," based on evaluation criteria calculated by adding the weighted values to numerically converted evaluations of their academic achievements (S = 4, A = 3, B = 2, and C = 1) in each subject being evaluated.

Evaluation of academic achievement	Converted value
S (Excellent: 90 points or higher)	4
A (Superior: 80 points - 89 points)	3
B (Good: 70 points - 79 points)	2
C (Fair: 60 points - 69 points)	1

Academic achievement	Evaluation criteria
Excellent	3.00 - 4.00
Very Good	2.00 - 2.99
Good	1.00 - 1.99

- * See the relationships between the evaluation items and evaluation criteria on Attached Sheet 2.
- * See the relationships between the evaluation items and class subjects on Attached Sheet 3.
- * See the Curriculum Map on Attached Sheet 4.

9. Graduation thesis (graduation research) (placement and method & time of assignment)

No graduation thesis is required.

10. Responsibility system

- * See Attached Sheet 5.

Table of Registration Standards for Liberal Arts Education Subjects

Program for Medicine

Type	Subject type			Required No. of credits	Class subjects, etc.	No. of credits	Type of course registration	Year in which the subject is taken(Note 1)							
								1st grade		2nd grade		3rd grade		4th grade	
								Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall
Liberal Arts Education Subjects	Peace Science Courses			2		2	Elective/required			○					
	Basic Courses in University Education	Introduction to University Education		2	Introduction to University Education	2	Required	○							
		Liberal Arts Education		2	Introductory Seminar for First-Year Students	2	Required	○							
	Common subjects	Area Courses		8	2 or more subjects from Courses in Arts and Humanities/Social Sciences	1or2	Elective/required	○	○						
					2 or more subjects from Courses in Natural Sciences		Elective/required								
		Foreign Language Subjects	English (Note 2)	Communication Seminar	2	Communication Seminar I	1	Required	○						
						Communication Seminar II	1			○					
			Communication I	2	Communication IA	1	Required	○							
					Communication IB	1		○							
			Communication II	2	Communication IIA	1	Required		○						
					Communication IIB	1			○						
			Initial Program Languages (Select one language from German and French)		4	Basic Foreign Language I	1	Elective/required	○						
						Basic Foreign Language II	1		○						
						Basic Foreign Language III	1			○					
						Basic Foreign Language IV	1			○					
		Information and Data Science Courses		2	Elements of Information Literacy	2	Elective/required	○							
					Exercise in Information Literacy	2			○						
		Health & Sports Subjects		2		1or2	Elective/required	○	○						
	Basic Subjects (Note 5)			6	Cell Science	2	Required	○							
					Psychology for Medical Care Workers (Note 4)	2			○						
					Human body anatomy for understanding human I	1			○						
					Human body anatomy for understanding human II	1			○						
				2	Foundation physics for life science	2	Elective/required (Note6)	○							
					Foundation biology for life science	2		○							
				2	Statistics	2	Elective/required		○						
	Basic Calculus	2	○												
				1 subjects from the two subjects above											
Total(Liberal Arts Education Subjects)			38												

- Note 1: Semesters marked with ○ are the standard semesters for taking related subjects. If you failed to obtain a credit(s) in said semester, you may take the subject again after that semester. Since the semester in which the subject is actually provided may be changed, you should confirm the semesters in which the subjects are provided by the relevant documents such as annual class tables.
- Note 2: You can substitute the credits which you have obtained by taking the "Field Research in the English-speaking World" based on shortterm language study abroad or other relevant program, or by taking the "Online English Course A & B" based on self-learning for English credits (8 credits) necessary for graduation. Also, there is a Credit Transfer System based on foreign language proficiency tests and language training. For details, see items related to English in Liberal Arts Education appearing in the Handbook for Students.
- Note 3: Take "Basic Information Literacy," which is offered in the first semester of the first year. Only if you fail to obtain a credit in "BasicInformation Literacy" can you take the "Exercise in Information Literacy."
- Note 4: Only if you fail to obtain a credit in "Psychology for Healthcare Professionals," you can replace the credit obtained by taking "Psychology A" or "Psychology B" for the credits required for graduation (2 credits).
- Note 5: If you gain credits in Basic Subjects that are not specified in the Table of Registration Standards, or if you gain more than two credits in the fundamental elective / required subjects specified in the Table of Registration Standards, up to two of these credits can be regarded as gained through taking Field Subjects.
- Note 6: Subjects to be obtained shall be specified from the "Initial Physics" or "Initial Biology" by the faculty. Credits of subjects in this category other than those specified will not be accepted as credits required.

Table of Registration Standards for Specialized Education Subjects

Program for Medicine

Type	Subject type	Required No. of credits	Class subjects, etc.	No. of credits	Type of course registration	Year in which the subject is taken															
						1st grade		2nd grade		3rd grade		4th grade		5th grade		6th grade					
						Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall				
Specialized Education Subjects	Specialty related subjects	17	Medical Professionalism	2	Required	2															
			Introduction for medical research	2		2															
			Medical Ethics I	1		1															
			Medical Ethics II	1						1											
			Early exposure of undergraduates to medicine	2			2														
			Outline of the Global Leadership Role	2		2															
			Human Relations	2			2														
			Radiation Biology & Radiation Health Risk Sciences	2				2													
			Human genetics	2				2													
			Medical English	1						1											
		Specialty related subjects total			17		11		4				1		1						
	Specialized subjects	190	Medical Neuroscience I	2	Required		2														
			Structure of human body	7				7													
			Medical Neuroscience II	4				4													
			Physiology and Biochemistry	10				10													
			Biological Responses	12					12												
			Pathology	5					5												
			Clinical diagnosis and treatment I	12						12											
			Clinical diagnosis and treatment II	13						13											
			Medical Neuroscience III	7						7											
			Systemic Disease Control	12						12											
			Clinical Pathology	2							2										
			Social Medicine	11							11										
			Practice for medical research	10								10									
			Symptomatology, Diagnosis and Treatment	9								9									
			Introduction to clinical clerkship	4									4								
			Bedside Learning I	40									40								
			Bedside Learning II	30											30						
			Specialized subjects (Required) total			190		2		38		57		23		70					
			Elective subject	0		Methodology in advanced medical sciences		0	Elective	1											
		Specialized Education Subjects total				207															

Academic achievements of Program for Medicine

Relationships between the evaluation items and evaluation criteria

Excellent

Academic achievements			Evaluation criteria		
Evaluation items			Excellent	Very Good	Good
Abilities and Skills	(4)	Communication skills	Based on appropriate communication, to be able to built good relationships with patients and their family members.	Being able to make communication with patients and their families.	Being able to use basic communication skills.
	(5)	Diagnosis skills	Being able to exactly collect information to the point necessary for treatment at a medical interview and select necessary ones to summarize and make a simple history of the disease.	Being able to select necessary ones to the point among several information on histories of diseases such as chief complaints, current clinical histories, anamnestic cases, family histories, social histories and system reviewing at a medical interview.	Being able to collect histories of diseases such as chief complaints, current clinical histories, anamnestic cases, family histories, social histories and system reviewing at a medical interview.
	(6)	Record of medical treatments	By extracting problems from collected diagnosis information, to be able to organize problem-oriented medical records, which are based on daily treatments, data analysis, treatment plans, etc.	To be able to record subjective diagnosis, objective diagnosis, assessment, and plan repeatedly.	Being able to explain importance of making medical records of problem oriented model
	(7)	Presentation skills	To be able to select what is to be disclosed from diagnosis and to be able to explain items Cleary and explicitly with in time limits. Also, to be able to deliver information appropriately and briefly.	To be able to select and give oral explanations what's to be disclosed from diagnosis.	To be able to clarify which information to be disclosed with in diagnosis.
Attitudes	(1)	Empathy and consideration	Being able to conduct medical treatment empathizing with and giving consideration to pains and sickness of patients from patients and their family's standpoint.	Being able to empathize with and give consideration to pains and sickness of patients.	Being able to state the importance of empathizing with and giving consideration to pains and sickness of patients.
	(2)	Professionalism	Based on an understanding of one's own limitations, to be able to improve oneself by accepting feedback from others.	Taking responsibility as a medical worker, to be able to accomplish tasks in a reliable way.	Being able to understand the common goods, morality and specialty required for doctors and to mention action and attitude which doctors should take.
	(3)	Cooperation with medical teams or others	To be able to establish collaborative and reliable relationships with colleagues, senior doctors and other medical workers by sharing information.	By communicating with workers including colleagues, senior doctors and other medical workers, to be able to share information effectively.	To be able to communicate with workers including colleagues, senior doctors and other medical workers.
Comprehensive Abilities	(1)	Comprehensive diagnosis ability	By integrating knowledge, understanding, abilities, skills, behavior, and professionalism mentioned above, to be able to conduct medical treatment based on one's own decisions in various cases.	By integrating knowledge, understanding, abilities, skills, behavior, and professionalism mentioned above, to be able to conduct medical treatment based on one's own decisions in basic cases.	By integrating knowledge, understanding, abilities, skills, behavior, and professionalism mentioned above, to be able to conduct medical treatment with assistance and advice by a supervisor.

Placement of Liberal Arts Education in the Major Program

To perform the duties of a doctor properly, it is desirable first to have a broad education as a mature member of society, as well as the ability to look at medical problems from a broad perspective. To this end, you are required to have a comprehensive grounding in looking at problems from the perspective of nature, society and the humanities. Yo

[illegible]

[illegible]

Curriculum Map of Program for Medicine

Academic achievements		1st grade		2nd grade		3rd grade		4th grade		5th grade		6th grade		
Evaluation items		Spring semester	Fall semester	Spring semester	Fall semester	Spring semester	Fall semester	Spring semester	Fall semester	Spring semester	Fall semester	Spring semester	Fall semester	
Acquire the intellectual abilities which serve as a basis for conducting research activities and social activities at a university.	Introductory Seminar for First-Year Students													
	Introduction to University Education			Peace Science Courses										
	Foreign Languages	Foreign Languages	Foreign Languages	Foreign Languages	Foreign Languages									
	Information and Data Science Courses ②													
	Area Courses	Area Courses												
	Health and Sports Courses	Health and Sports Courses												
	Cell Science													
	Psychology for Medical Care Workers													
	Foundation physics for life science/Foundation biology for life science													
	Statistics/Basic Calculus	Statistics/Basic Calculus												
Outline of the Global Leadership Role														
Knowledge and understanding of human body structure.		Human body anatomy for understanding	Structure of human body											
		Human body anatomy for understanding	Medical Neuroscience II											
		Structure of human body												
		Medical Neuroscience I												
Knowledge and understanding of functions of cells and tissues.	Cell Science		Physiology and Biochemistry	Physiology and Biochemistry										
Knowledge and understanding of living organism.			Human genetics											
			Radiation Biology & Radiation Health Risk Sciences	Biological Responses										
Understanding and knowledge of diseases and pathological conditions				Pathology		Clinical Pathology								
The knowledge and understanding related to organs and systems and diseases caused by the bankruptcy of them.						Clinical diagnosis and treatment I	Clinical diagnosis and treatment I	Symptomatology, Diagnosis and Treatment	Symptomatology, Diagnosis and Treatment	Bedside Learning I	Bedside Learning I	Bedside Learning II		
						Clinical diagnosis and treatment II	Clinical diagnosis and treatment II		Bedside Learning I		Bedside Learning II			
						Medical Neuroscience III	Medical Neuroscience III							
Understanding and knowledge of systemic diseases and how to regulate the diseases						Systemic Disease Control	Systemic Disease Control	Symptomatology, Diagnosis and Treatment	Symptomatology, Diagnosis and Treatment	Bedside Learning I	Bedside Learning I	Bedside Learning II		
									Bedside Learning I		Bedside Learning II			
The knowledge understanding on health							Social Medicine							
Abilities and Skills	Problem-solving ability							Symptomatology, Diagnosis and Treatment	Symptomatology, Diagnosis and Treatment	Bedside Learning I	Bedside Learning I	Bedside Learning II		
									Bedside Learning I		Bedside Learning II			
	The ability of carrying out research (planning, data analysis, summary)	Introduction for medical research						Practice for medical research						
	Methodology in advanced medical sciences													
	Basic treatment skills								Introduction to clinical clerkship	Bedside Learning I	Bedside Learning I	Bedside Learning II		
									Bedside Learning I		Bedside Learning II			
	Communication skills		Medical Communication			Medical English	Medical English		Introduction to clinical clerkship	Bedside Learning I	Bedside Learning I	Bedside Learning II		
									Bedside Learning I		Bedside Learning II			
	Diagnosis skills								Introduction to clinical clerkship	Bedside Learning I	Bedside Learning I	Bedside Learning II		
									Bedside Learning I		Bedside Learning II			
	Record of medical treatments								Introduction to clinical clerkship	Bedside Learning I	Bedside Learning I	Bedside Learning II		
									Bedside Learning I		Bedside Learning II			
	Presentation skills								Bedside Learning I	Bedside Learning I	Bedside Learning I	Bedside Learning II		
											Bedside Learning II			
Attitudes	Empathy and consideration	Introductory Seminar for First-Year Students	Early exposure of undergraduates to medicine ②			Clinical diagnosis and treatment I	Clinical diagnosis and treatment I		Introduction to clinical clerkship	Bedside Learning I	Bedside Learning I	Bedside Learning II		
		Medical Professionalism							Bedside Learning I		Bedside Learning II			
	Professionalism	Introductory Seminar for First-Year Students	Early exposure of undergraduates to medicine ②			Clinical diagnosis and treatment I	Clinical diagnosis and treatment I	Symptomatology, Diagnosis and Treatment	Symptomatology, Diagnosis and Treatment	Bedside Learning I	Bedside Learning I	Bedside Learning II		
		Psychology for Medical Care Workers							Introduction to clinical clerkship		Bedside Learning II			
		Medical Professionalism							Bedside Learning I					
	Cooperation with medical teams or others	Introductory Seminar for First-Year Students	Early exposure of undergraduates to medicine ②					Symptomatology, Diagnosis and Treatment	Symptomatology, Diagnosis and Treatment	Bedside Learning I	Bedside Learning I	Bedside Learning II		
		Medical Professionalism							Bedside Learning I		Bedside Learning II			
Comprehensive Abilities	Comprehensive diagnosis ability	Medical Professionalism	Early exposure of undergraduates to medicine ②						Bedside Learning I	Bedside Learning I	Bedside Learning I	Bedside Learning II		
											Bedside Learning II			
				Liberal Arts Education		Basic Specialized Subjects		Specialized Education		Graduation thesis		Required		
										Elective/required		Elective		

Faculty member list

name	Position	tel	Laboratory name	mail
Kazuo Awai	Professor	5255	Diagnostic Radiology	awai@hiroshima-u.ac.jp
Koji Ikegami	Professor	5110	Anatomy and Developmental Biology	k-ikegami@hiroshima-u.ac.jp
Hidenori Aizawa	Professor	5115	Neurobiology	haizawa@hiroshima-u.ac.jp
Norio Sakai	Professor	5140	Molecular and pharmacological neuroscience	nsakai@hiroshima-u.ac.jp
Kazunori Imaizumi	Professor	5130	Biochemistry	imaizumi@hiroshima-u.ac.jp
Hirofumi Maruyama	Professor	5200	Clinical Neuroscience and Therapeutics	hmaru@hiroshima-u.ac.jp
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