

<b>For entrants in FY 2021</b>
--------------------------------

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 <p>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.</p> <p>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 &amp; 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 &amp; general theory of medicine. While students take introductory medical subjects and subjects for basics &amp; 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).</p>	
3. Diploma policies (degree conferment policy & program attainment goals) <p>Qualities and skills to be acquired before graduation in the Program of Medicine shall be as follows:          Students shall:</p> <ol style="list-style-type: none"> <li>1) Have developed rounded characters and a broad liberal arts education, and be aware of their duties as a doctor who protects people's lives and health,</li> <li>2) Have acquired specialized medical knowledge and basic medical treatment skills,</li> <li>3) Understand the medical insurance system, and have acquired the ability to contribute to regional medical treatment in cooperation with local residents and local governments,</li> <li>4) Have acquired communication skills needed to build good relationships with patients and their families, as well as their coworkers,</li> <li>5) Have acquired practical English skills, and international exchange skills,</li> <li>6) Have acquired the ability to identify problems for themselves and to solve those problems through the ability to think</li> </ol>	

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 2 or more subjects from Courses in Natural Sciences	1or2	Elective/required Elective/required	○	○								
		Foreign Language Subjects	English (Note 2)	Communication Seminar	2	Communication Seminar I Communication Seminar II	1 1	Required	○							
				Communication I	2	Communication IA Communication IB	1 1	Required	○							
			Communication II	2	Communication IIA Communication IIB	1 1	Required		○							
			Initial Program Languages (Select one language from German and French)			Basic Foreign Language I	4	1	Elective/required	○						
						Basic Foreign Language II	1	○								
						Basic Foreign Language III	1			○						
		Basic Foreign Language IV				1		○								
		Information and Data sciences Subjects (Note 3)			Introduction to Information and Data Sciences	2	2	required	○							
					Ground zero programming	2	2	elective/required		○						
					Fundamental Data Science	2	2	required		○						
		Health & Sports Subjects	2			1or2	Elective/required	○	○							
	Basic Subjects (Note 5)			Cell Science	6	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			○								
					Foundation physics for life science	2	2	Elective/required (Note6)	○							
Foundation biology for life science					2	2	○									
			Statistics	2	2	Elective/required		○								
			Basic Calculus	2	2		○									
			1 subjects from the two subjects above													
Total(Liberal Arts Education Subjects)		40														

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: Only if you fail to obtain a credit in "Introduction to Information and Data Sciences," you can replace the credit obtained by taking "Ground zero programming" or "Fundamental Data Science"(2 credits)  
If you gain more than two credits "Ground zero programming" or "Fundamental Data Science" , up to two of these credits can be regarded as gained through taking Field Subjects(Natural Sciences).

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	Required	Medical Neuroscience I	2		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

Academic achievements		Evaluation criteria		
Evaluation items		Excellent	Very Good	Good
Knowledge and Understanding	(1) Acquire the intellectual abilities which serve as a basis for conducting research activities and social activities at a university.	Being able to broadly understand and give explanation not only on studies in the field of natural science but also on various studies including arts and social sciences. Also, having an understanding of different cultures and values and, in the context of diversity, being able to explain one's own culture and value. Furthermore, making them as one's own code of conduct, having an ability to reflect them to one's own way of learning and social life.	Being able to broadly understand and give explanation not only on studies in the field of natural sciences but also on various studies including arts and social sciences.	Being able to broadly understand and give explanation not only on studies in the field of natural science but also on various studies including arts and social sciences. Also, having an understanding of different cultures and values and, in the context of diversity, being able to explain one's own culture and value.
	(2) Knowledge and understanding of human body structure.	Being able to give applicative explanation on each endpoint relating to other items.	Being able to give explanation on each endpoint relating to other items.	Being able to explain basic points on each endpoint.
	(3) Knowledge and understanding of functions of cells and tissues.			
	(4) Knowledge and understanding of living organism.			
	(5) Understanding and knowledge of diseases and pathological conditions			
	(6) The knowledge and understanding related to organs and systems and diseases caused by the bankruptcy of them.			
	(7) Understanding and knowledge of systemic diseases and how to regulate the diseases			
	(8) The knowledge·understanding on health policies and social medical systems			
Abilities and Skills	(1) Problem-solving ability			
	(2) The ability of carrying out research (planning, data analysis, summary)	Being able to make research plans and explain the meaning and positioning in the medicine. Being able to collect data, conduct analytical processing in a proper way and interpret the results. Being able to consider the results and develop them to a new research plan.	Being able to make research plans and explain the meaning and positioning in the medicine. Being able to collect data, conduct analytical processing in a proper way and interpret the results.	Being able to make research plans and collect data based on the plans.
	(3) Basic treatment skills	To be able to select appropriate treatment methods in accordance with a situation. Also, to be able to obtain required observation appropriately and efficiently	Being able to appropriately conduct basic treatment skills and get exact opinions.	Being able to show ways on basic treatment skills.

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 Clearly 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. You are also required to establish an educational foundation for studying medical sciences such as chemistry, physics, mathematics, and statistics in the early stage. You may also need to receive supportive education in subjects that you did not take in high school so that your lack of knowledge of these subjects will not interfere with the special education offered in this university. For students to acquire this grounding, a Liberal Arts Education will be provided mainly in the first year. However, since students may reaffirm the importance of a Liberal Arts Education when they develop some sense of self-awareness as a trainee doctor in the future, the Liberal Arts Education will continue to be provided in parallel with special education in and after the second year.









## 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
Tomoichiro Asano	Professor	5135	Biomedical Chemistry	tasano@hiroshima-u.ac.jp
Takemasa Sakaguchi	Professor	5155	Virology	tsaka@hiroshima-u.ac.jp
Kouichi Hashimoto	Professor	5125	Neurophysiology	hashik@hiroshima-u.ac.jp
Yukio Takeshima	Professor	5152	Pathology	ykotake@hiroshima-u.ac.jp
Kouji Arihiro	Professor	5590	Anatomical Pathology	arihiro@hiroshima-u.ac.jp
Sachio Takeno	Professor	5250	Otorhinolaryngology, Head and Neck Surgery	takeno@hiroshima-u.ac.jp
Noboru Hattori	Professor	5195	Molecular and Internal Medicine	nhattori@hiroshima-u.ac.jp
Yoshiki Kudo	Professor	5260	Obstetrics and Gynecology	yoshkudo@hiroshima-u.ac.jp
Junko Tanaka	Professor	5160	Epidemiology, Infectious Disease Control and Prevention	jun-tanaka@hiroshima-u.ac.jp
Nobuo Adachi	Professor	5232	Orthopaedic Surgery	nadachi@hiroshima-u.ac.jp
Yasumasa Okamoto	Professor	5205	Psychiatry and Neurosciences	oy@hiroshima-u.ac.jp
Masanori Ito	Professor	5461	General Medicine	maito@hiroshima-u.ac.jp
Naoko Hasunuma	Professor	1586	Center for Medical Education	Hasunuma@hiroshima-u.ac.jp