

# Requirements and Registration of the Graduate Program for Medical Innovation

## 1. Completion Requirement

Students must satisfy the following requirements to complete the Graduate Program for Medical Innovation(MIP).

- (1) Must satisfy the complete requirements of their graduate school
- (2) Must complete 6 credits in minimum in “Graduate Courses for Integrated Research Training”
- (3) Must complete 4 credits in minimum in courses of “Core Medical Education Courses”
  - \* Student who have taken the courses in “Core Medical Education Courses” or their equivalent may be exempt from courses in “Core Medical Education Courses”
  - \* International students allowed to take courses designated by the program provided in English by Liberal Arts and general education as the alternative for courses of “Core Medical Education Courses”.
- (4) Must complete 2 credits in minimum in courses of “Group of courses for career development and improvement of skills”
- (5) Must complete either “Internship in Japan or abroad” or “(Interdisciplinary) Joint research project”
- (6) Must pass the final screening of the Graduate Program for Medical Innovation

## 2. Courses

### Graduate Courses for Integrated Research Training(GCIRT)

Chose one from 11Graduate course. (10 Graduate Course for master’s program)

Courses	Semester	Code
Cell, Developmental and Systems Biology	Full-year	E054000(Seminar for Master's Program) E055000(Practice for Master's Program) P029000(Seminar for Doctoral Program) P030000(Practice for Doctoral Program)
Immunology, Allergy and Infection	Full-year	E038000(Seminar for Master's Program) E039000(Practice for Master's Program) P005000(Seminar for Doctoral Program) P006000(Practice for Doctoral Program)

Cancer	Full-year	E040000(Seminar for Master's Program) E041000(Practice for Master's Program) P007000(Seminar for Doctoral Program) P008000(Practice for Doctoral Program)
Genome and Omics Statistical Analysis	Full-year	E056000(Seminar for Master's Program) E057000(Practice for Master's Program) P031000(Seminar for Doctoral Program) P032000(Practice for Doctoral Program)
Neuroscience	Full-year	E042000(Seminar for Master's Program) E043000(Practice for Master's Program) P011000(Seminar for Doctoral Program) P012000(Practice for Doctoral Program)
Metabolic Syndrome, Aging and Metabolic Medicine	Full-year	E044000(Seminar for Master's Program) E045000(Practice for Master's Program) P013000(Seminar for Doctoral Program) P014000(Practice for Doctoral Program)
Regeneration Medicine and Organ Reconstruction	Full-year	E046000(Seminar for Master's Program) E047000(Practice for Master's Program) P015000(Seminar for Doctoral Program) P016000(Practice for Doctoral Program)
Pathology and Pathophysiology	Full-year	P017000(Seminar for Doctoral Program) P018000(Practice for Doctoral Program)
Clinical Research	Full-year	E048000(Seminar for Master's Program) E049000(Practice for Master's Program) P019000(Seminar for Doctoral Program) P020000(Practice for Doctoral Program)
Public Health	Full-year	E050000(Seminar for Master's Program) E051000(Practice for Master's Program) P021000(Seminar for Doctoral Program) P022000(Practice for Doctoral Program)
Medical Engineering and Physics	Full-year	E052000(Seminar for Master's Program) E053000(Practice for Master's Program) P027000(Seminar for Doctoral Program) P028000(Practice for Doctoral Program)

For more information on GCIRT, refer to Graduate School of Medicine Bulletin English version on page 5-8(doctoral program) or page 16-18(master's program)

<http://www.med.kyoto-u.ac.jp/faculty/kyoumu/class-exam/>

GCIRT website (Japanese),

<http://www.med.kyoto-u.ac.jp/edcourse/setup/>

## Core Medical Education Courses

The courses are provided by Japanese.

Courses	Credit	Semester	Code
Essential Anatomy	2	1st	E060000
Essential Physiology I	2	1st	E061000
Essential Physiology II	2	1st	E062000
Essential General Pathology	2	1st	E064000
Histology	2	Fall	E003000
Embryology and Developmental Biology	2	Fall	E004000
Physiology I	2	Fall	E006000
Physiology II	4	Fall	E007000
Neuroscience	6	Fall	E027000
Brain Dissection Training	1	Fall	E036000
Microbiology I	2	Winter	E010000
Microbiology II	4	Winter	E011000
Immunology	4	Spring	E009000
General Pathology II	4	Spring	E012000
Pharmacology I	2	Spring	E015000
Pharmacology II	4	Spring	E016000
Legal Medicine I	2	Spring	E013000
Legal Medicine II	4	Spring	E014000
Medical Genetics	2	Spring	E031000
Social, Environmental and Preventive Medicine	2	Spring	E021000
Fundamentals of Biostatistics	2	1st	E029000
Legal system in medical information	2	2nd	Z204000

Syllabus:

<https://www.k.kyoto-u.ac.jp/internal/g/med/syllabus/top>

Detailed course schedule will be posted on the website and class room (Only in Japanese)

<http://www.med.kyoto-u.ac.jp/faculty/kyoumu/class-exam/>

International students allowed to take courses in below table as the alternative for subjects of Core Medical Education Courses.

The courses are provided in English by Liberal Arts and general education. The courses are undergraduate elective courses. The course details and schedule must be confirmed with the syllabus of "Liberal Arts and general education" on KULASIS.

Courses	Credit	Semester
Principles of Genetics-E2	2	1st
Introduction to Molecular Biotechnology-E2	2	1st
Introduction to Biochemistry-E2	2	2nd
Introduction to Behavioral Neuroscience A-E2	2	1st
Introductory Statistics-E2	2	1st

Introduction to Behavioral Neuroscience B-E2	2	2nd
Introduction to Medical Psychology-E2	2	2nd
Nutrition and Health-E2	2	2nd
Biology and Sociology of Chronic Diseases-E2	2	1st

### Group of courses for career development and improvement of skills

The courses are provided by Japanese.

Courses	Credit	Semester	Code
Frontier type Human Resource Development in Medical Science	2	2nd (Irregular)	TBA
Introduction to Drug Discovery and Development	2	Full-year (Irregular)	E037000
Medical Engineering for Society	2	2nd (Intensive)	E063000
Healthcare Innovation Design Entrepreneurship Program	2	Full-year (Intensive)	Z101000

Syllabus:

<https://www.k.kyoto-u.ac.jp/internal/g/med/syllabus/top>

“Frontier type Human Resource Development in Medical Science” is to be announced.

Detailed course schedule will be posted on the website and class room ( Only in Japanese)

<http://www.med.kyoto-u.ac.jp/faculty/kyoumu/class-exam/>

### 3. Course Registration for Full year and First(Spring) semester

#### **Method**

#### **To Master’s Students of Medical Science, Graduate School of Medicine**

“Graduate Courses for Integrated Research Training” and “Core Medical Education Courses” is NO registration Required in MIP.

If you wish to register courses in “Group of courses for career development and improvement of skills”, please send Registration Form to MIP office via email.

#### **To Students of Medicine, Medical Science (Doctoral Program), Public Health, Graduate School of Medicine**

“Graduate Courses for Integrated Research Training” is NO registration Required in MIP.

If you wish to register courses in “Core Medical Education Courses” and “Group of courses for career development and improvement of skills”, please send Registration Form to MIP office via email.

#### **To Students of Human Health Sciences, Graduate School of Medicine**

#### **To Students of Graduate School of Pharmaceutical Sciences**

Please send Registration Form to MIP office via email.

**Registration Period: 15:00 on Tuesday April 21, 2020**

Registration form Download:

<https://www.mip.med.kyoto-u.ac.jp/applicaion-guideline/>

Contact Information

MIP Office, Graduate School of Medicine, Kyoto University  
Room 302, 3rd Floor, Science Frontier Laboratory Building, Faculty of Medicine Campus  
Yoshida-Konoe-cho, Sakyo-ku, Kyoto 606-8501, JAPAN  
Phone: 075-753-9334  
E-mail: [takuetsu-med@mail2.adm.kyoto-u.ac.jp](mailto:takuetsu-med@mail2.adm.kyoto-u.ac.jp)  
URL: <https://www.mip.med.kyoto-u.ac.jp>



MIP Office  
Room 302, 3rd Floor, Science  
Frontier Laboratory  
Building(No.16)