

International Double Degree Ph.D. Program in Biomedical Sciences,
Faculty of Associated Medical Sciences, Chiang Mai University, Thailand
and
Graduate School of Medical Sciences, Kumamoto University, Japan

1. Degree

Chiang Mai University

Thai : Full ปรัชญาดุษฎีบัณฑิต (วิทยาศาสตร์ชีวการแพทย์)
: Abbreviation พร.ด. (วิทยาศาสตร์ชีวการแพทย์)
English : Full Doctor of Philosophy (Biomedical Sciences)
: Abbreviation Ph.D. (Biomedical Sciences)

Kumamoto University

English : Full Doctor of Philosophy (Medical Science) or
Doctor of Philosophy (Life Science)
: Abbreviation Ph.D. (Medical Science) or Ph.D. (Life Science)

2. Responsible Faculty/School

Faculty of Associated Medical Sciences, Chiang Mai University, Thailand and Graduate School of Medical Sciences, Kumamoto University, Japan

3. Admission Requirements

For Chiang Mai University

■ Type 1.1

1. In accordance with the Chiang Mai University Announcement for admission each year.
2. The applicant must obtain a master's degree in health sciences or related field with a minimum GPA 3.25) on a 4.0 scale or equivalent .The applicant must have good ability to perform research work.
3. The applicant is required to submit official evidence of English -language proficiency test scores from one of these tests:

English-language proficiency test	Minimum Score
CMU-eTEGS	65
IELTS	5.5
TOEFL-PBT	523
TOEFL-ITP	523
TOEFL-CBT	193
TOEFL-IBT	69
CU-TEP *	65%

TU-GET *	65%
KU-EPT *	65%

Score of English-language proficiency test is valid only obtaining within 2 years

4. Possess any other qualifications specified by the discretion of the Administrative Committee of Graduate Program in Biomedical Science.

■ Type 1.2

1. In accordance with the Chiang Mai University Announcement for admission each year.

2. The applicant must obtain a master's degree in health sciences or related field with a minimum GPA 3.50) on a 4.0 scale or equivalent .The applicant must have good ability to perform research work.

3. The applicant is required to submit official evidence of English -language proficiency test scores from one of these tests:

English-language proficiency test	Minimum Scored
CMU-eTEGS	65
IELTS	5.5
TOEFL-PBT	523
TOEFL-ITP	523
TOEFL-CBT	193
TOEFL-IBT	69
CU-TEP *	65%
TU-GET *	65%
KU-EPT *	65%

Score of English-language proficiency test is valid only obtaining within 2 years

4. Possess any other qualifications specified by the discretion of the Administrative Committee of Graduate Program in Biomedical Science.

For Kumamoto University

1. In accordance with the Kumamoto University Announcement for admission.

2. The applicant is required to submit official evidence of English-language proficiency test scores such as the TOEFL-iBT (score should be 33 or higher), TOEFL-PBT ,TOEFL-ITP (407 or higher) , TOEIC (L&R) , TOEIC-IP (380 or higher), or IELTS (4 or higher), which should have taken within two years of the entrance examination. The scores of the TOEFL-ITP and TOEIC-IP are valid only when the students have been attained at Kumamoto University.

Note: Other qualifications may be considered by the discretion of the Administrative Committee of Graduate Program from both universities.

The entrance examination fee is paid to both universities.

4. Selection of Applicants

The selection of successful applicants is performed in a comprehensive manner by examining the application documents (e.g. result of the academic tests, the certificate of academic), the statement of research interest, and interview. The interview may be conducted either in person or by Teleconference, in separation or at the same time upon mutual agreement between joint supervisors from both universities. The acceptance of an applicant needs to be approved by both sides.

5. Academic System

- Yearly system
- Bi-semester system
 - Each regular semester has a period of study at least 15 weeks
 - The first semester runs from June to October
 - The second semester runs from November to March

6. Study Duration

- Type 1.1, 4 years
- Type 1.2, 5 years

Students shall spend at least 2 semesters at the host University.

7. Registration

Students must enroll not more than 15 credits in a regular semester and not more than 6 credits in summer semester. Enrollment for Kumamoto University is in accordance with the Announcement of the Registration Office.

8. Double Degree Completion

Chiang Mai University

Type 1.1

1. Passed a foreign language conditions by examination or any other methods specified by Graduate School
2. Fullfilled all requirements of the Double degree's regulations
3. Passed the Qualifying examination
4. Passed the Dissertation examination
5. Presented (oral or poster presentation) the dissertation or part of the dissertation work at an academic international conference at least one time
6. The dissertation or a part of dissertation must be published or accepted for publication, as original article, at least 2 papers. At least one paper must be published in a peer-reviewed journal which is in ISI Database, Scopus, PubMed or Web of Science. Student must be the first author at least in one paper.

7. Possess all qualifications complying with the Chiang Mai University regulations of honor and dinity for graduating a degree or diploma 2550 BE.

Type 1.2

1. Passed a foreign language conditions by examination or any other methods specified by Graduate School

2. Fullfilled all requirements of the Double degree's regulations

3. Passed the Qualifying examination

4. Passed the Dissertation examination

5. Presented (oral or poster presentation) the dissertation or part of the dissertation work at an academic international conference at least one time

6. The dissertation or a part of dissertation must be published or accepted for publication, as original article, at least 2 papers in the peer-reviewed journals which are in ISI Database, Scopus, PubMed or Web of Science. Student must be the first author at least in one paper.

7. Possess all qualifications complying with the Chiang Mai University regulations of honor and dinity for graduation a degree or diploma 2550 BE.

Kumamoto University

1. Completed courseworks and fulfilled all conditions specified in the Double degree's regulations

2. Passed the Interrim Review and Dissertation examination

3. The dissertation must be accepted for publication at least one paper in a journal specified in the curriculum of Kumamoto University.

Remarks:

1) Qualifying Examination and Dissertation Proposal Examination shall be conducted separately. Committee appointment and examination procedures shall follow the regulations of each university.

2) One same dissertation shall be evaluated by each university independently.

3) Dissertation Examination shall be conducted separately based on the guidelines of each universty.

9. Tuition fee

Student only pays tuition fees to the home university (tuition fees waived at the host university).

10. Curriculum

10.1. Curriculum Structure

Doctor of Philosophy Program in Biomedical Sciences (International Program), Chiang Mai University

Type 1.1 Student with Master's Degree

Degree Requirement

Total credits 48 credits

A. Thesis 48 credits

510898 AMS 898 Ph.D. thesis 48 credits

B. Academic activities

Students may have to attend some courses under advice of thesis supervisors and have to complete all non-credit academic activities according to the curriculum requirements. In addition, the students must complete other academic activities based on the University regulation as follows.

1) Students must present, in English, a seminar in the journal club seminar format on the topic related to his/her thesis at least one seminar per semester upon the entire period stated in the study plan (3 years or 6 semesters). In case of absence for doing research in other institute, students have to perform this activity in that institute, instead. Students, who do not perform this activity, must complete the required seminar activity according to the study plan when return to the Faculty.

2) Students have to attend at least 80 percent of the regularly journal club seminar schedule in the semester. The seminar must be carried out in English and emphasizes on the enhancing and exchanging knowledge among the participants. In exceptional cases, students may ask for permission of seminar absence from the Curriculum administrative committee.

3) Students have to report their thesis progression to the Curriculum administrative committee every semester.

4) The students must attend any special lectures related to his/her thesis topic carrying by guest speakers in each semester according to the study plan.

5) Students must have oral or poster presentation of their thesis works in academic conferences at least one time.

6) The whole or part of thesis must be published or accepted for publication, as original article, at least 2 papers. At least one paper must be published in the peer-reviewed journal which is in ISI Database, Scopus, PubMed or Web of Science. Student must be the first author at least in one paper.

7) Students have to report the thesis progression, using the graduate school format, to the Graduate school every semester, by approval of the Head of the Curriculum administrative committee of the faculty.

C. Non-credit course

1) Graduate School's requirement -a foreign language

2) Program's requirement - None

D. Qualifying examination

1) Students have to complete qualifying examination within the second semester after registration.

2) Students, who have approved of study program transfer, have to take qualifying examination in the second semester after the study program transferring.

3) An unsuccessful examinee will have one more opportunity to take the examination within the following regular semester.

Doctor of Philosophy Program in Biomedical Sciences (International Program), Chiang Mai University

Type 1.2 Student with Bachelor's Degree

Degree Requirement

Total credits 72 credits

A. Thesis 72 credits

 510897 AMS 897 Ph.D. thesis 72 credits

B. Academic activities

Students may have to attend some courses under advice of thesis supervisors and have to complete all non-credit academic activities according to the curriculum requirements. In addition, the students must complete other academic activities based on the University regulation as follows.

1) Students must present, in English, a seminar in the journal club seminar format on the topic related to his/her thesis at least one seminar per semester upon the entire period stated in the study plan (5 years or 10 semesters). In case of absence for doing research in other institute, students have to perform this activity in that institute, instead. Students, who do not perform this activity, must complete the required seminar activity according to the study plan when return to the Faculty.

2) Students have to attend at least 80 percent of the regularly journal club seminar schedule in the semester. The seminar must be carried out in English and emphasizes on the enhancing and exchanging knowledge among the participants. In exceptional cases, students may ask for permission of seminar absence from the Curriculum administrative committee.

3) Students have to report their thesis progression to the Curriculum administrative committee every semester.

4) The students must attend any special lectures related to his/her thesis topic carrying by guest speakers in each semester according to the study plan.

5) Students must have oral or poster presentation of their thesis works in academic conferences at least one time.

6) The whole or part of thesis must be published or accepted for publication, as original article, at least 2 papers in the peer-reviewed journals which are in ISI Database, Scopus, PubMed or Web of Science. Student must be the first author in at least one paper.

7) Students have to report the thesis progression, using the graduate school format, to the Graduate school every semester, by approval of the Head of the Curriculum administrative committee of the faculty.

C. Non-credit course

1) Graduate School's requirement -a foreign language

2) Program's requirement - None

D. Qualifying examination

1) Students have to complete qualifying examination within the forth semester after registration.

2) Students, who have approved of study program transfer, have to take qualifying examination in the second semester after the study program transferring.

3) An unsuccessful examinee will have one more opportunity to take the examination within the following regular semester.

Doctor of Philosophy in Medical Sciences, or Life Sciences, Kumamoto University					
Subjects		Credits		How to take credits	Required Credit
		Compulsory	Elective		
Lecture	A1 Medical Informatics and Medical Ethics	2			2
Research	Departmental Course "Practice (Jissen)" I	10			10 (#Note 1)
Course Work	Medical experiment course		2	Choose 1 from these subjects	2
	Practicum on multidisciplinary cancer therapeutics, palliative care ❖Note 1		2		
Research	Departmental Course Practice (Jissen)" II		8	Choose 1 from these subjects	8 (#Note 1)
	Departmental Course Practice (Jissen)" III		8		
Lecture (General Course)	B1 Pathophysiology and Structural Biochemistry of Biomolecules		2	8 credits or more	8 or more
	B2 Cell Biology		2		
	B3 Hematopoietic and Immune Systems		2		
	B4 Infection and Immune Control		2		
	B5 Human Brain Functional Science		2		
	B6 Neuroscience		2		
	B7 Developmental and Regenerative Medicine		2		
	B8 Environmental and Sociomedical Sciences		2		
	B9 Applied Bioinformatics		2		
	C1 Current Theory of Medical Diagnosis		2		
	C2 Advanced Therapeutics		2		
	C3 Metabolic and Circulatory Regulations		2		
	C4 Reproductive and Developmental Medicine		2		
	C5 Advances in Oncologic Medicine		2		
	C6 The Forefront of Clinical Oncology		2		
	C7 Restorative Medicine		2		
	C8 Cancer therapeutics		2		
	C9 Palliative Care ❖Note 2		2		
	C10 The Theory of Clinical Research		2		
	C11 Practice of biostatistics in clinical study		2		
Seminar Practice	D1 Medical and Life Science Seminar		2		
	D2 Learning from Experienced Doctors Seminar		2		
	D3 Medicine and Life Science Training		2		
	D5 International Biomedical Research Seminars		2		
Total					30 credits or more

❖Note 1) limited to students who have the licenses of Doctor, Dentist, Nurse, Radiation technologist, Clinical laboratory technologist and Clinical engineering technologists

❖Note 2) for students who have the licenses of Doctor, Dentist, Nurse, Radiation technologist, Clinical laboratory technologist and Clinical engineering technologists

#Note1) Awarded upon publishing one paper in the KU list

10.2 Study Plan

10.2.1 Chiang Mai University (Home University)

Type 1.1; Student with a Master's degree

First Year at Chiang Mai University

Semester 1		Credits KU	Credits CMU	Semester 2		Credits KU	Credits CMU
	Enroll for University Service	-	0		Enroll for University Service	-	0
	Pass English Test	-	-		Seminar	-	-
	Seminar	-	-		Qualifying Examination	-	-
	Enroll online courses for KU's Compulsary subjects (course work 2 credits, research 10 credits)	12			Enroll online courses for KU's Elective Compulsary subjects I	2	
	Total	12	0		Total	2	0

Second Year at Chiang Mai University

Semester 1		Credits KU	Credits CMU	Semester 2		Credits KU	Credits CMU
510898	Dissertation and Proposal Exam	-	12	510898	Dissertation	-	12
	Seminar	-	-				
	Enroll online courses for KU's Elective Compulsary subjects II (research 8 credits)	8	-		Enroll online courses for KU's Elective subjects	2	
	Total	8	12		Total	2	12

Third Year at Chiang Mai University and Kumamoto University*

Semester 1 Chiang Mai University		Credits KU	Credits CMU	Semester 2 Kumamoto University		Credits KU	Credits CMU
510898	Dissertation	-	12		Enroll for University Service	-	0
	Seminar	-	-		Seminar	-	-
	Enroll online courses for KU's Elective subjects	4			Enroll online courses for KU's Elective subjects	2	
	Total	4	12		Total	2	0

Fourth Year at Kumamoto University* and Chiang Mai University

Semester 1 Kumamoto University		Credits KU	Credits CMU	Semester 2 Chiang Mai University		Credits KU	Credits CMU
	Enroll for University Service	-	0	510898	Dissertation	-	12
	Seminar	-	-		Seminar	-	-
	Dissertation defense (KU)**				Dissertation defense (CMU)**		
	Total	0	0		Total	0	12

*could be any academic year depending upon mutual agreement between joint supervisors from both universities

** should be held separately based on the guidelines of each university

**Total credits at least 48 credits for Chiang Mai University
and at least 30 credits for Kumamoto University**

Type 1.2; Student with a Bachelor's Degree

First Year at Chiang Mai University

Semester 1		Credits KU	Credits CMU	Semester 2		Credits KU	Credits CMU
	Enroll for University Service	-	0		Enroll for University Service	0	0
	Pass English Exam	-	-		Seminar	-	-
	Seminar	-	-				
	Enroll online courses for KU's Compulsary subjects (course work 2 credits, research 10 credits)	12	-		Enroll online courses for KU's Elective Compulsary subjects I	2	-
	Total	12	0		Total	2	0

Second Year at Chiang Mai University

Semester 1		Credits KU	Credits CMU	Semester 2		Credits KU	Credits CMU
	Enroll for University Service	-	0		Enroll for University Service	-	0
	Seminar	-	-		Seminar	-	-
	Enroll online courses for KU's Elective Compulsary subjects II (research 8 credits)	8	-		Qualifying Exam	-	-
	Total	8	0		Total	-	0

Third Year at Chiang Mai University

Semester 1		Credits KU	Credits CMU	Semester 2		Credits KU	Credits CMU
510897	Dissertation and Proposal Exam	-	12	510897	Dissertation	-	12
	Seminar	-	-		Seminar	-	-
	Enroll online courses for KU's Elective subjects	4	-		Enroll online courses for KU's Elective subjects	4	-
	Total	4	12		Total	4	12

Fourth Year at Chiang Mai University and Kumamoto University*

Semester 1 Chiang Mai University		Credits KU	Credits CMU	Semester 2 Kumamoto University		Credits KU	Credits CMU
510897	Dissertation	-	12	510897	Dissertation	-	12
	Seminar	-	-		Seminar	-	-
	Total	-	12		Total	-	12

Fifth Year at Kumamoto University* and Chiang Mai University

Semester 1 Kumamoto University		Credits KU	Credits CMU	Semester 2 Chiang Mai University		Credits KU	Credits CMU
510897	Dissertation	-	12	510897	Dissertation	-	12
	Seminar	-	-		Seminar	-	-
	Dissertation defense (KU)**				Dissertation defense (CMU)**		
	Total	-	12		Total	-	12

*could be any academic year depending upon mutual agreement between joint supervisors from both universities

** should be held separately based on the guidelines of each university

**Total credits at least 72 credits for Chiang Mai University
and at least 30 credits for Kumamoto University**

10.2.2 Kumamoto University (Home University)

First Year at Kumamoto University

Semester 1		Credits KU	Credits CMU	Semester 2		Credits KU	Credits CMU
	Enroll for University Service	-	0		Enroll for University Service	-	0
	Pass English Test	-	-		Seminar	-	-
	Seminar	-	-		Qualifying Examination	-	-
	Enroll for KU's Compulsary subjects (course work 2 credits, research 10 credits)	12			Enroll for KU's Elective Compulsary subjects I	2	
	Total	12	0		Total	2	0

Second Year at Kumamoto University

Semester 1		Credits KU	Credits CMU	Semester 2		Credits KU	Credits CMU
510898	Dissertation and Proposal Exam	-	12	510898	Dissertation	-	12
	Seminar	-	-				
	Enroll for KU's Elective Compulsary subjects II (research 8 credits)	8	-		Enroll for KU's Elective subjects	2	
	รวม	8	12		Total	2	12

Third Year at Kumamoto University and Chiang Mai University*

Semester 1 Kumamoto University		Credits KU	Credits CMU	Semester 2 Chiang Mai University		Credits KU	Credits CMU
510898	Dissertation	-	12	510898	Dissertation	-	12
	Seminar	-	-		Seminar	-	-
	Enroll for KU's Elective subjects	4			Enroll for KU's Elective subjects	2	
	Total	4	12		Total	2	12

Fourth Year at Chiang Mai University* and Kumamoto University

Semester 1 Chiang Mai University		Credits KU	Credits CMU	Semester 2 Kumamoto University		Credits KU	Credits CMU
	Enroll for University Service	-	0		Enroll for University Service	-	0
	Seminar	-	-		Seminar	-	-
	Dissertation defense (CMU)**				Dissertation defense (KU)**		
	Total	0	0		Total	0	0

* could be any academic year depending upon mutual agreement between joint supervisors from both universities

** should be held separately based on the guidelines of each university

Total credits at least 30 credits for Kumamoto University
and at least 48 credits for Chiang Mai University