

## 履修方法・修了要件

## グローバル教育院 ヒューマンバイオロジー学位プログラム(5年一貫制博士課程)

## 【学位】

研究科	専攻	学位
グローバル教育院	ヒューマンバイオロジー学位プログラム	博士(人間生物学)

## 【履修方法・修了要件】

科目区分	科目群		条件又は科目名等	修得単位数
基礎科目	共通科目	イニシエーション科目	必修	3
			選択	0~1
		基礎科目	必修	1
			選択	0~6
	大学院共通科目:全学科目	国際科目	選択必修(1科目履修)	5~21
応用国際科目		選択	0~20	
トランスフェラブルスキル		選択	0~10	
専門基礎科目	専門基礎科目I	医科学	必修	8
			選択	0~1
		分子科学	選択(3科目履修)	3~8
	専門基礎科目II	数学と計算科学	必修	2
			選択(必修1科目を含め3科目履修)	2~8
専門科目		必修	36	
			修了単位数	72

## (履修方法)

- ・学位プログラムの1、2年次において、当該履修年次で履修する共通科目のうち必修3単位及び選択必修5単位以上、専門基礎科目のうち必修10単位並びに専門科目の必修26単位を含めて合計60単位以上を履修するものとする。
- ・学位プログラムの3年次において、当該履修年次で履修する専門科目10単位を履修し、1、2年次の履修単位を含めて合計72単位以上を履修するものとする。
- ・研究科及び専攻の科目並びに大学院共通科目は、10単位を限度として修了の要件となる単位として認めることができる。

## (修了要件等)

- ・課程修了に必要な授業科目を履修し、72単位以上を修得した上で、必要な研究指導を受けて、博士論文を提出し、その審査及び最終試験に合格すること。
- ・大学院学則第3条の2第2項に規定する課程の目的を充足した上で、次の能力を有することがQualifying Examination 1 (QE1)、Qualifying Examination 2 (QE2)及び最終試験において認定されること。

ア 世界に貢献するという明確な意思及び真摯な態度

イ 国際的な英語力検定試験で保証された英語力

ウ 国際社会で自在に交渉することができるコミュニケーション能力

エ 我が国の医師に匹敵するヒトに関する生物学の専門基礎知識

オ 生命科学、計算科学及び物質科学を駆使し社会ニーズが高い課題を自立して解決する能力

カ 査読付き学術論文を2報以上発表。ただし、企画書型の学位論文を申請する場合は1報以上発表

キ 学生の自己成長を促進する形成的評価システム(GLiD)における規定以上の達成度

- ・ヒトの生物学の分野において、独創的で優れたテーマの設定を行い、博士の学位に相応しい成果が得られ、相応しい体裁にまとめられていること並びに当該分野の社会のニーズを理解し、必要とされる実施目的を設定して、自らの力で研究・実践を推進する能力、総括する能力及び産業界又は学術界から国際的に高い評価を得られる企画書・提案書・学術論文を公表する能力を有すると認められること。

Degree Requirements and Criteria for Program Completion

**Ph.D. Program in Human Biology, School of Integrative and Global Majors (Five-year Consecutive Doctoral Program)**

**【Degree】**

School	Program	Degree
School of Integrative and Global Majors	Ph.D. Program in Human Biology	Doctor of Philosophy in Human Biology

**【Degree Requirements and Criteria for Program Completion】**

Subject Category	Classification of Subject Category	Subject Area	Types of Subject and Conditions of Registration	Number of Credits Required
Basic Subjects	Common Subjects	Initiation Subjects	Compulsory	3
			Elective	0-1
		Basic Subjects	Compulsory	1
			Elective	0-6
		International Subjects	Compulsory Elective (Note: Students must take at least two 5-credit Courses in International Subjects.)*	5-21
		Advanced International Subjects	Compulsory Elective	0-20
	Graduate General Education Courses	Transferable Skills	Elective***	0-10
Basic Specialized Subjects	Basic Specialized Subjects I	Medical Subjects	Compulsory	8
			Elective	0-1
		Molecular Subjects	Elective (Note: Students must take at least three Molecular subjects)	3-8
		Mathematics and Computational Subjects	Compulsory	2
			Elective (Note: Students must take more than three courses, including two compulsory ones in Mathematics and Computational Subjects.)*	2-8
	Basic Specialized Subjects II		Elective	0-6
Specialized Subjects			Compulsory	36
			Total Number of Credits Required to Complete the Program	72

(Degree Requirements)

\*In the first two years of the program, students must earn more than 60 credits, including the following COMPULSORY credits; 3 credits in Initiation Subjects; 1 credit from Basic Subjects; 10 credits in Medical Subjects and Mathematics and Computational Subjects; 26 credits in Specialized Subjects; and at least 5 COMPULSORY ELECTIVE credits from International Subjects.

\*\*In the third year of the program, the student must earn more than 72 credits, including 10 COMPULSORY credits from Specialized Subjects, in addition to all credits previously earned during his or her first two years of the program.

\*\*\*As ELECTIVES, 72 credits may include up to 10 credits earned through Transferable Skills and courses offered by other graduate schools and programs at the University of Tsukuba.

(Criteria for Program Completion)

• Students must fulfill the following requirements:

Take the necessary subjects to complete the program, earn more than 72 credits, receive the necessary research guidance, submit a doctoral dissertation, and pass its review and the final examination.

• Upon satisfying the requirements of the program as stipulated in Article 3-2, Paragraph 3 of the Graduate School Rules of the University of Tsukuba, the student will take Qualifying Examination 1 (QE1), Qualifying Examination 2 (QE2), and a final examination to determine if he or she has attained the proficiencies given below.

- a) A sincere and genuine desire to make a contribution to the world;
- b) Proficiency in English as demonstrated by passing an internationally recognized test of English language proficiency;
- c) The ability to communicate effectively in global settings;
- d) Fundamental knowledge focused on Human Biology equivalent to that of a Japanese physician;
- e) Ability to independently solve pressing social problems in the community through a good command over life sciences, computational science, and materials science;
- f) Publish more than two or more peer-reviewed papers, yet if applying for a dissertation defense with a business proposal, publish more than one or more peer-reviewed papers; or
- g) An achievement exceeding that stipulated in the Guideline for the Growth and Learning Identification powered by Instructional Design (GLiD).

• The student must fulfill the following requirements in the field of Human Biology:

Propose original, high-quality business or research topics. Achieve results appropriate for the doctoral level. In addition, the student must demonstrate the ability to understand the social needs of the relevant field, commit to the necessary aims to be achieved, demonstrate the ability to synthesize and generalize information, conduct independent research/experiments, and publish business proposals or peer-reviewed research papers with the potential to be internationally recognized in both industry and academia.