

Degree Requirements and Criteria for Program Completion

Doctral 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	Doctral 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	Human Biology-related subject	Initiation Subjects	Compulsory	3
			Elective	0-1
		Basic Subjects	Compulsory	1
			Elective	0-6
		International Subjects	Compulsory Elective (Note: Students must take at least one 5-credit Course in International Subjects.)*	5-20
		Advanced International Subjects	Elective	0-50
	Graduate General Education Courses	Transferable Skills	Elective***	0-10
Basic Specialized Subjects	Human Biology-related subject	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 one compulsory subject in Mathematics and Computational Subjects.)*	2-8
		others	Elective	0-6
Specialized Subjects	Human Biology-related subject		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.

5 years or more school attendance is required. However, for those who demonstrate outstanding research performance during their period of attendance, three years total or more of graduate school attendance will suffice.

• 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 (GLiDD).

• 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.