

Global Science Course (GSC)

Global Science Course

1. What is the Global Science Course?

The Global Science Course (GSC) was established in AY 2014 jointly by three science faculties—the Faculty of Science, the Faculty of Computer Science and Engineering and the Faculty of Life Science—together with the Faculty of Foreign Studies. The Course aims to foster future professionals in science and engineering who can take on challenges in a global society, by helping them develop specialized knowledge in science, along with English proficiency. In the Course, each of the three science faculties establishes unique educational objectives and curricula, which feature its field of specialization and unique characteristics. The GSC in the Faculty of Life Sciences provides education based on the three policies specified below, in addition to the policies of the Faculty.

Admission Policy

The Course admits a wide range of students with the following characteristics

1. Students who want to work in the international arena.
2. Students who are able to take on challenges and who will become pioneers in new fields of life science.
3. Students who want to develop their ability further by pursuing studies at graduate school.

Curriculum Policy

The Course seeks to meet the following education objectives in addition to providing specialized education in the Faculty of Life Sciences.

1. To enhance students' communication skills (English proficiency and the ability to exchange ideas)
2. To cultivate students' capacity and flexibility to recognize and understand the similarities and differences between Japanese and other cultures
3. To develop students' willingness to take on challenges and foster their ability to work in the international arena

Diploma Policy

Students are certified as having completed the Course if they possess the ability to discuss problems with people from other countries using English, which is the lingua franca in the life sciences.

2. Enrollment in Global Science Course

Students must submit an application to enroll in the Global Science Course.

(1) Enrollment numbers

Approximately 20 students

(2) Selection

In accordance with each faculty's admission policy, applicants are selected based on their basic academic ability as demonstrated in the placement tests (English, biology, and chemistry). Additionally, students' reasons for seeking entrance into the Course (application and interview) will also be considered.

(3) Selection schedule

An information session will be held in mid-June of the first semester (spring). The GSC application deadline will be at the end of June, and the screening of applications will be held in early July. Students who are selected for the course will start their curriculum with "Special English (Summer Camp)" (compulsory core subject), which will be held during the summer holiday period in September.

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3. Global Science Course Curriculum

- Students must enroll in “core subjects,” “core elective subjects,” and “designated elective subjects” as specified in the Course Composition table. More specifically, students must obtain all of the credits from the “core subjects,” six credits from the “core elective subjects,” and four credits from the “designated elective subjects.”
- “Special English (Summer Camp)” is the compulsory core subject offered to all GSC registered students in the Faculties of Science, Computer Science and Engineering and Life Sciences.
- Students are certified as having completed the course if they register for the course and acquire a minimum of 26 credits as specified in the Course Composition table.

4. Features of the Global Science Course

GSC strongly promotes study-abroad programs, such as training at an overseas university or research institution. During the spring holiday period (February and March), “Global Science Camp” is provided to first year undergraduate students as a training program at an overseas university, research institution, or business. This subject provides students with an opportunity to explore their potentials by engaging in conversations and exchanging views with people working at the frontline of the global academic and business world. The subject thus aims to give students an experience, which they will be able to use in their research and future careers. In addition, GSC provides students with overseas internships as well as a number of other opportunities that allow them to gain more experience in global settings.

On campus, GSC students are able to take “Special English” subjects, which are aimed at not only improving their general English abilities but also developing their ability to present and discuss their ideas on specific topics in natural sciences using English. In subjects offered by the Global Japan Program (GJP), students are able to study history, culture, law, business, science, technology, and other fields, in English with students from overseas. Discussions with international students with diverse backgrounds help students develop their English proficiency and cross-cultural understanding.

5. Other

- There are a limited number of spaces available for the “Global Science Camp.” If the number of applications exceeds this limit, applicants are selected on the basis of their English ability, academic performance, and other related factors.
- Credits for the “Special English (Summer Camp)” and “Global Science Camp” will not be included in the per-semester maximum credit limitations set by the Faculty.

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◇ Course Composition

	Course/Subject Name	No. of Credits	Year level (and above)	Course/Subject Details	Notes	Minimum Required Number of Credits
Core subject	Special English (Summer Camp)	1	1	Faculty of Foreign Languages specialized education subject	Year-round; intensive; with registration restriction	16
	Basic Graduation Research Works	2	3	Faculty of Life Sciences specialized education subject		
	Applied Graduation Research Works	6	4	Faculty of Life Sciences specialized education subject		
	English for Molecular Biosciences 1	1	2	Faculty of Life Sciences specialized education subject	Dept. of Molecular Biosciences	
	English for Molecular Biosciences 2	1	2	Faculty of Life Sciences specialized education subject		
	English for Molecular Biosciences 3	1	3	Faculty of Life Sciences specialized education subject		
	Scientific English 1	1	2	Faculty of Life Sciences specialized education subject	Dept. of Bioresource and Environmental Sciences / Dept. of Animal Medical Sciences	
	Scientific English 2	1	2	Faculty of Life Sciences specialized education subject		
	Scientific English 3	1	3	Faculty of Life Sciences specialized education subject		
	Biology Laboratory Experiments	2	2	Faculty of Life Sciences specialized education subject	Dept. of Molecular Biosciences	
	Chemistry Laboratory Experiments	2	1	Faculty of Life Sciences specialized education subject		
	Biology Laboratory Experiments	2	1	Faculty of Life Sciences specialized education subject	Dept. of Bioresource and Environmental Sciences	
	Chemistry Laboratory Experiments	2	2	Faculty of Life Sciences specialized education subject		
	Biology Laboratory Practicum	2	1	Faculty of Life Sciences specialized education subject	Dept. of Animal Medical Sciences	
Biochemistry Laboratory Practicum	2	1	Faculty of Life Sciences specialized education subject			
Core elective subject	Ecology and Society	2	1	General education subject	KSU Subject; GJP Subject (in the fields of humanity and social sciences)	2
	Environmental Problems	2	1	General education subject		
	Japanese Science & Technology	2	1	General education subject		GJP (Natural science field)
	Traditional Cultures in Kyoto	2	1	General education subject		
	History, Culture and Sightseeing of Kyoto	2	1	General education subject		
	History and Culture of Kyoto	2	1	General education subject		
	Annual Events in Japan	2	1	General education subject		
	GJP Introductory Seminar	2	1	General education subject		
	KSU Special Lecture (Japan's Foreign Policy)	2	1	General education subject		
	Religion in Japan	2	1	General education subject		
	Historical Origins of Modern Japan	2	1	General education subject		
	Japanese Culture in Historical Perspective	2	1	General education subject		
	World Heritage Sites in Japan	2	1	General education subject		
	Introduction to Japanese Literature	2	1	General education subject		
	Modern Japanese Literature	2	1	General education subject		
	Japanese Management and Business	2	1	General education subject		
	Introduction to Japanese Politics	2	1	General education subject		
	Modern Japanese Government	2	1	General education subject		
	Issues in Japanese Society	2	1	General education subject		
	Special English	1 to 2	1 to 4	Faculty of Foreign Studies specialized education subject		Except English for Future Teachers 1, 2
Designated elective subject	Self Discovery through College Life	2	Exclusive to 1st-year students	General education subject	With registration restriction	4
	Enterprises in the Twenty-First Century	2	Exclusive to 2nd- and 3rd-year students	General education subject	With registration restriction	
	Career-planning for Self-support	2	Exclusive to 3rd-year students	General education subject	With registration restriction	
	Internship 1	2	Exclusive to 2nd- and 3rd-year students	General education subject	With registration restriction	
	Internship 2	2	2	General education subject	With registration restriction	
	Internship 3	4	Exclusive to 3rd-year students	General education subject	With registration restriction	
	Internship 4	4	Exclusive to 2nd- and 3rd-year students	General education subject	With registration restriction	
	Internship 5	2	Exclusive to 2nd- and 3rd-year students	General education subject	With registration restriction	
	Internship 6 (Fieldwork Cooperative Education)	3	Exclusive to 2nd-year students	General education subject	With registration restriction	
	Practice Fieldwork	2	1	General education subject	With registration restriction	
	O/OCF-PBL1	2	Exclusive to 1st-year students	General education subject	With registration restriction	
	O/OCF-PBL2	2	Exclusive to 2nd-year students	General education subject	With registration restriction	
	O/OCF-PBL3	2	Exclusive to 3rd-year students	General education subject	With registration restriction	
	Career-making Decisions through College Life	2	Exclusive to 2nd-year students	General education subject	With registration restriction	
	Introductory Internship	2	Exclusive to 1st- and 2nd-year students	General education subject	With registration restriction	
	Hybrid Program of Business Person and Student	2	2	General education subject	With registration restriction	
	Global Science Camp	2	1	Faculty of Life Sciences specialized education subject	Fall Semester; intensive (with enrollment capacity)	
	Any of the core elective subjects	2	1 to 4			

* Be sure to refer to the Registration Regulations for details regarding the handling of credits of the subjects to be registered. For details of the class period, registration restriction, and other related information regarding each subject, refer to the Course Registration Supplementary Guide.

* Students who complete a “short-term language practicum” will be granted a specified number of credits (one to three credits) as a designated elective subject.