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1. Kyoto University educational goals and degree policy regarding the Program for Leading Graduate Schools

Kyoto University Mission Statement (2001, excerpt)

- Kyoto University will generate world-class knowledge through freedom and autonomy in research that conforms to high ethical standards.
- As a university that comprehends many graduate schools, faculties, research institutes and centers, Kyoto University will strive for diverse development in pure and applied research in the humanities, sciences and technology, while seeking to integrate these various perspectives.
- Within its broad and varied educational structure, Kyoto University will transmit high-quality knowledge and promote independent and interactive learning.
- Kyoto University will educate outstanding and humane researchers and specialists, who will contribute responsibly to the world's human and ecological community
- As a university committed to a broad social engagement, Kyoto University will encourage cooperation with local and national society, and will disseminate knowledge informed by the ideals of freedom and peaceful coexistence.
- As an international institution, Kyoto University will promote foreign academic exchange and thereby strive to contribute to the well-being of the world.

From the application guidelines for the Program for Leading Graduate Schools (2011)

The Program for Leading Graduate Schools aims at mentoring talented students into future leaders, armed with a broad view and creative thinking, active globally in industry, academia and government. In order to do so, the Program for Leading Graduate Schools mobilizes high-level educators and students and the participation of industry, academia and government, support a radical reform of graduate education that develops interdisciplinary world-class 5-year graduate programs, and promotes the development of graduate schools befitting their status of highest educational institution.

(1) Educational goals and objectives for the Program for Leading Graduate Schools

As a high-quality 5-year degree education based on an active dialogue with professors and professionals from the university and outside and an industry-government-academia cooperation, this program is designed to develop internationalized human resources with a global view on different fields of expertise and a creative problem-solving stance, equipped with strong communication skills and comfortable in an international setting, active on a global scale.

(2) Admission Policy

The Program for Leading Graduate Schools of Kyoto University welcomes appropriately qualified students who understand and agree with its core objectives, and are ready to embrace them with a strong motivation.

(3) Curriculum Policy

This 5-year program promotes constructive self-learning through dialogue with various educators and professionals from inside and outside the university, as well as a high-level practical education based on industry-government-academia cooperation. This world-class curriculum aims at fostering human resources able to

- conduct research projects from plan to completion,
- communicate and explain their endeavour to the public,
- organize a research team and lead the way in new research fields at an international level.

Full details of the curriculum policy will be fixed within each program.

(4) Degree Policy

This program requires students to enroll for the number of academic years appropriate for their graduate school, to undergo research training and guidance in line with the curriculum policy of the Program for Leading Graduate Schools within their graduate school, to submit a doctoral thesis within the number of years allotted by their graduate school, and pass all designated qualifications and examinations. Depending on their graduate schools, students may also be required to complete a designated number of credits in order to complete the program.

In order to complete the program, students are expected to acquire the knowledge and aptitudes necessary to gain a global view on different fields of expertise and a creative problem-solving stance, as well as the experience and aptitudes necessary to demonstrate strong communication skills and a career in an international setting.

The first stage (the first two years) of this program requires students to complete the designated courses and meet the credits requirements in line with the curriculum policy of the Program for Leading Graduate Schools within their graduate school, the submission of a Master's thesis (if it is required) and passing of all the corresponding qualifications and examinations, as well as passing the Basic Doctoral Ability Qualification (BDAQ).

In order to pass the BDAQ, students are required to complete the designated courses and credit requirements in line with the program, and to meet all other necessary criteria.

In order to meet the criteria for the BDAQ, students are required to be equipped with basic research skills, such as a specific field of expertise, an extensive knowledge, the ability to plan a research project, and communication skills that include foreign language skills.

For further details regarding the standards for Master and Doctoral thesis, please refer to the degree policy of each graduate school.

2. The Global Survivability Studies Program (GSS)

The Inter-Graduate School Program for Sustainable Development and Survivable Societies aims at developing a new academic discipline of Global Survivability Studies (GSS).

This Program is managed by the Leading Graduate School for Sustainable Development and Survivable Societies (GSS), Center for Educational Program Promotion in Graduate School, Kyoto University.

3. Admission Policy for the Global Survivability Studies Program

The Global Survivability Studies Program aims at the following in terms of educational goals.

(1) Our Educational Goals

Fostering human resources with a broad-based knowledge and a specific expertise, combined with flexible thinking, determination and the ability to take action, ready to lead in every area of society, is one of the missions of the University of Kyoto, and an essential requirement in all areas of society, including industry, government and academia.

The Inter-Graduate School Program for Sustainable Development and Survivable Societies (Global Survivability Studies Program or GSS) is based on the cooperation of 9 graduate schools and 3 research institutes. In close collaboration with the industry world, government agencies, international organizations, national and overseas universities, this program aims at developing an advanced interdisciplinary graduate education focused on the field of safety and security, and at actively fostering the future leaders of our global society.

Today's global society is facing an increasing frequency of hazardous events and social instability, which can be identified as 1) large-scale natural disasters, 2) unexpected human disasters and accidents, 3) regional environmental changes such as environmental degradation and infectious diseases, 4) issues regarding food security. In the Inter-Graduate School Program for Sustainable Development and Survivable Societies, a new interdisciplinary area of "Global Survivability Studies" will address and cover each of these issues (**fig.1**), and will cultivate human resources

- 1- filled with the sense of mission and ethics necessary to overcome the many crisis the human race is facing, and to enrich human society and contribute to its well-being.
- 2- equipped with sound judgment and energy, able to implement appropriate measures based on their own specific expertise, and on a wide vision and a broad-based knowledge.

The students who complete the Global Survivability Studies Program (GSS) will be notably:

- Academic leaders active in the field of social / safety system science, as high-level researchers and educators.
- Leaders in the field of international crisis management, active on the global scene, in international organizations.
- Leaders in the industry able to appropriately address disasters, accidents and economic crisis, providing a stable and consistent business management
- Leaders at the local and national level who exercise their leadership in policy making regarding food, resources and energy safety
- Science communicators who convey correct information based on their scientific knowledge, thus limiting public anxiety
- New business leaders who develop new technologies and methodologies in the field of safety and security and start their own business

They will be able to assume leading positions in various areas of our global society and move it in the right direction.

This program will welcome able young students who are aiming at such careers, and after providing them with a fruitful **5-year graduate education**, will send them out in the world as capable human resources. The University of Kyoto strongly wish that these students can eventually contribute to a more harmonious global society.

In order to foster such human resources, the Global Survivability Studies Program (GSS) set 10 goals, which program students are required to achieve through program activities.

Table 1- The Global Survivability Studies Program (GSS) Goals (to foster leadership)

GSS Goals	Description
Knowledge of GSS Topics	Knowledge of disciplinary areas associated with global survivability studies.
Interdisciplinarity	An understanding of topics from each relevant discipline and the importance of approaching one's own research from an interdisciplinary point of view.
Project Management	Ability to identify the conditions necessary to execute a project, put the project into action, observe problems associated with the project, identify the problems accurately, present feasible solutions, carry out the project while implementing the solutions, and improve the project and one's self as a result of completing it.
Addressing Real World Problems	Ability to identify and understand real world problems by going out into the field to observe and evaluate the problems first hand. Using one's own expert knowledge to present solutions to aspects of these problems. Other people adopt one's solutions to the problem.
Interpersonal Communication	Ability to communicate with other people in a respectful and considerate manner by using appropriate strategies and media. Effective communication with GSS teachers and staff, external parties associated with GSS activities, and anyone else encountered during work or leisure time. Ability to interact respectfully with those whose ideas are different from one's own.
Appropriate Scientific Communication	Ability to communicate information about one's specialization to the general public beginning with the essentials and using appropriate means of communication. Uses an easy to understand manner that does not lower the level of content.
Multicultural Collaboration	Ability to understand and work successfully with one's own uniqueness. Demonstration of an understanding and appreciation for other cultures. Ability to interact with individuals from other cultures without treating them differently than one's self.
Demonstrating Initiative	Ability to work independently of others in planning and executing projects. Willingness to take initiative and demonstrate creativity in response to different contexts. Ability to thrive in most situations with independence and originality.
Practicing Ethical Behavior	Ability to perceive and consider appropriate responses to ethical issues in one's research area, accompanied by an understanding of the consequences of one's actions, and the ability to make ethical choices. Awareness of privacy considerations, adherence to copyright conventions, and avoidance of plagiarism. Practice of cultural sensitivity when making presentations and communicating in writing.
Toughness and Appealing Personality	Ability to address and resolve problems with toughness and charm. If you are charming enough you can convince each person involved to work for the benefit of all. If you are tough enough you can withstand any challenge and overcome any obstacle.

(2) Qualification Requirements: who, when, how to apply

Students who have graduated from a Japanese university (4-year undergraduate program), or who have an equivalent qualification, and who are enrolled in any of the graduate schools and departments listed in **Table 2** below (or, as a special case, students enrolled in a Doctorate Program (Third-Year) can apply to this program. Nationality, gender and age are no object.

They will be evaluated for admission. Upon evaluation, those selected will be registered as program students, and attend the course classes.

Table 2 - Graduate schools and departments involved in the Global Survivability Studies Program (GSS)

Graduate School of Education	All departments (Interdisciplinary Studies in Education)
Graduate School of Economics	All departments (Department of Economics)
Graduate School of Science	Division of Earth and Planetary Sciences
Graduate School of Medicine	Department of Medicine and Medical Science, School of Public Health
Graduate School of Engineering	Department of Civil and Earth Resources Engineering, Department of Urban Management, Department of Environmental Engineering, Department of Architecture and Architectural Engineering, Department of Mechanical engineering and Science
Graduate School of Agriculture	All departments (Division of Agronomy and Horticultural Science, Division of Forest and Biomaterials Science, Division of Applied Life Sciences, Division of Applied Biosciences, Division of Environmental Science and Technology, Division of Natural Resource Economics, Division of Food Science and Biotechnology)
Graduate School of Asian and African Area Studies	All departments (Division of Southeast Asian Area Studies, Division of African Area Studies, Division of Global Area Studies)
Graduate School of Informatics	Department of Social Informatics, Department of Communications and Computer Engineering
Graduate School of Global Environmental Studies	All departments (Doctorate Program in Global Environmental Studies, Doctorate Program in Environmental Management)

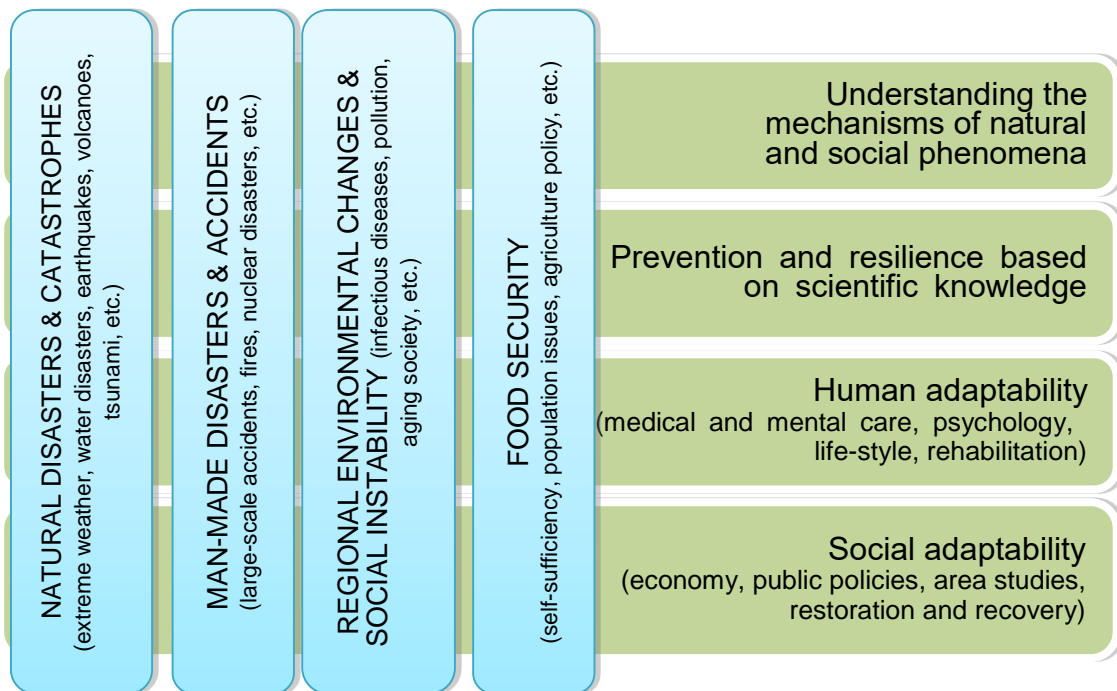


Fig.1 Scope of Global Survivability Studies

4. Global Survivability Studies Program Curriculum

(1) Why a 5-year program?

In order to develop a broad-based knowledge and a specific expertise, to cultivate flexible thinking, determination and the ability to take action, and to get ready to lead in different areas of society, it is indispensable to gain a wide variety of experiences, which, in turn, requires time. Therefore, from the moment they enroll in the first part of the program (Master's Program in some cases), students create their 5-year plan and set their own objectives, and have the opportunity to choose a curriculum that will match their project.

(2) Enrollment procedures for the Global Survivability Studies Program (GSS)

Regarding the curriculum flow for the 5-year Global Survivability Studies Program, please refer to **Table 3**. This program is conducted by the Leading Graduate School for Sustainable Development and Survivable Societies, Center for Educational Program Promotion in Graduate School, Kyoto University.

Table 3 - Global Survivability Science Program (GSS) curriculum flow (enrollment in April)

Academic Year Semester	L1 1st	L1 2nd	L2 1st	L2 2nd*2	L3 1st	L3 2nd	L4 1st	L4 2nd	L5 1st	L5 2nd
Graduate School Degree Program	Course Work		Master Thesis or Doctorate Research Project		Academic Paper Writing, etc.			Doctorate Thesis		
(a) Global Survivability Studies Program classes	8 Compulsory Classes Credits: ◎Global Survivability Risk Management ◎Agriculture and Environment in Japan ◎Human Safety and Security Studies ◎Global Survivability Studies Earn at least 2 credits before the end of L2 2nd semester *2 2 credits from: ※ Information Analysis and Management (Informatics Common Class) ※ Information Analysis and Management Exercise (Informatics Common Class) ※ Clinical Psychology of War and Disaster ※ Engineering Ethics and Management of Technology ※ Risk and Society ※ Interdisciplinary Graduate Courses <input type="checkbox"/> 4 credits from the classes provided by each graduate school									
◎Compulsory										
※ Optional Compulsory										
<input type="checkbox"/> Optional										
(b) Field training										
(c) Internship										
(d) Interdisciplinary seminar										
(e) International academic exchange										
(f) Industry / University Collaborative Project	Industry-University Collaborative Project (I) (Compulsory) *1 ,*2 Industry-University Collaborative Project (II) (Optional)									
(g) International Cooperation Project	Any available time (Compulsory) *1 ,*2									

Note A: *1 In order to be eligible to take the First Year Pre-Qualifying Examination, students are required to attend at least 3 Interdisciplinary Seminar sessions, and to successfully complete at least 2 compulsory class credits or one GSS activity before the end of their L1 year. Students are required to pass this examination in order to be able to continue the GSS Program (see (4) First Year Pre-Qualifying Examination below).

*2 Students are required to earn at least 2 credits of compulsory classes and complete at least one GSS activity before the end of L2, when they have to pass the Basic Doctoral Ability Qualification, to ensure that they have acquired a comprehensive academic knowledge. In order to enter the second stage of the doctoral program, students are required to pass this evaluation.

(a) Students have to earn all required credits by the end of the 5th year.

(b)~(g)All must be completed by the end of the 5th year.

Note B: Third-Year enrollment students are required to complete all the curriculum by the end of the 3rd year (except part of the curriculum for which they received certification during preparatory course).

Note C: For students who enrolled in fiscal year 2018 or before 2018, the Compulsory class “Global Survivability Risk Management” will be replaced by “Introduction to Risk Studies” and “Agriculture and Environment in Japan” will be replaced by “Sustainable Food Production”.

(3) About Academic Degree (Degree Policy)

(a) Research: students are required to pursue their research within their department and graduate school, and will receive their academic degree at the end of the 5 years, if they meet the requirements of their graduate school.

(b) Comprehensive academic knowledge: students are expected to gain a variety of experiences through this program, and to acquire a comprehensive academic knowledge, in order to become active leaders in our global society.

By achieving the two above elements, students in the Inter-Graduate School Program for Sustainable Development and Survivable Societies will be granted the following mention (tentative translation) on their diploma:

Kyoto University hereby confers upon the candidate a Doctorate degree (Ph.D.) in recognition of the completion of the Doctorate Program of the Department of ○○○, Graduate School of ○○○.

OR

Kyoto University hereby confers upon the candidate a Doctorate degree (○○○) in recognition of the completion of the Doctorate Program of the Department of ○○○, Graduate School of ○○○, and certifies that he/she completed ‘Inter-Graduate School Program for Sustainable Development and Survivable Societies’.

As seen in **Table 4** below, the name of the degree changes slightly depending on the Graduate School.

Table 4 - Mention on the diploma bestowed after completion of the program (as of April 2019)

Graduate School of Education	Kyoto University hereby confers upon the candidate a Doctorate degree (Education) in recognition of the completion of the Doctorate Program of the Department of ○○○, Graduate School of Education and certifies that he/she completed ‘Inter-Graduate School Program for Sustainable Development and Survivable Societies’.
Graduate School of Economics	Kyoto University hereby confers upon the candidate a Doctorate degree (Economics) in recognition of the completion of the Doctorate Program of the Department of Economics, Graduate School of Economics, and certifies that he/she completed ‘Inter-Graduate School Program for Sustainable Development and Survivable Societies’.
Graduate School of Science	Kyoto University hereby confers upon the candidate a Doctorate degree (Science) in recognition of the completion of the Doctorate Program of the Division of Earth and Planetary Sciences, Graduate School of Science, and certifies that he/she completed ‘Inter-Graduate School Program for Sustainable Development and Survivable Societies’.
Graduate School of Medicine	Kyoto University hereby confers upon the candidate a Doctorate degree (Medicine) in recognition of the completion of the Doctorate Program of the Department of Medicine, Graduate School of Medicine, and certifies that he/she completed ‘Inter-Graduate School Program for Sustainable Development and Survivable Societies’. OR Kyoto University hereby confers upon the candidate a Doctorate degree (Public Health) in recognition of the completion of the Doctorate Program of the School of Public Health, Graduate School of Medicine, and certifies that he/she completed ‘Inter-Graduate School Program for Sustainable Development and Survivable Societies’.
Graduate School of Engineering	Kyoto University hereby confers upon the candidate a Doctorate degree (Engineering) in recognition of the completion of the Doctorate Program of the Department of ○○○, Graduate School of Engineering, and certifies that he/she completed ‘Inter-Graduate School Program for Sustainable Development and Survivable Societies’.
Graduate School of Agriculture	Kyoto University hereby confers upon the candidate a Doctorate degree (Agriculture) in recognition of the completion of the Doctorate Program of the Department of ○○○, Graduate School of Agriculture, and certifies that he/she completed ‘Inter-Graduate School Program for Sustainable Development and Survivable Societies’.
Graduate School of Asian and African Area Studies	Kyoto University hereby confers upon the candidate a Doctorate degree (Area Studies) in recognition of the completion of the Doctorate Program of the Department of ○○○, Graduate School of Asian and African Area Studies, and certifies that he/she completed ‘Inter-Graduate School Program for Sustainable Development and Survivable Societies’.

Graduate School of Informatics	Kyoto University hereby confers upon the candidate a Doctorate degree (Ph.D.) in recognition of the completion of the Doctorate Program of the Department of ○○○, Graduate School of Informatics. Kyoto University hereby confers upon the candidate a Doctorate degree (Informatics) in recognition of the completion of the Doctorate Program of the Department of ○○○, Graduate School of Informatics, and certifies that he/she completed 'Inter-Graduate School Program for Sustainable Development and Survivable Societies'.
Graduate School of Global Environmental Studies	Kyoto University hereby confers upon the candidate a Doctorate degree (Global Environmental Studies) in recognition of the completion of the Doctorate Program of the Department of ○○○, Graduate School of Global Environmental Studies, and certifies that he/she completed 'Inter-Graduate School Program for Sustainable Development and Survivable Societies'.

(4) First Year Pre-Qualifying Examination

At the end of the 1st year, students are required to take the First Year Pre-Qualifying Examination. Students must to pass this examination in order to be able to continue the GSS Program.

Screening criteria

- To take part at least 3 sessions of interdisciplinary seminars and to get certification. Furthermore, earning at least 2 credits of compulsory classes or completing at least one GSS activity.
- To submit a 5-year (3-year for Third-Year enrollment) research project.
- A 20-minute oral examination (interview) in English will be held in early March, focused on (a) and (b).

(5) Second Year Qualifying Examination (Basic Doctoral Ability Qualification)

At the end of the first part of the program (the end of the 2nd year), depending on the department and the graduate school they are enrolled in, student may have to submit a Master thesis or an equivalent research work, and may then be granted a Master Degree or equivalent provided they met all the necessary requirements. Depending on their department and graduate school, students may have to submit a preliminary doctorate thesis, which is the equivalent of a Master thesis. In professional degrees, students are required to submit a theme research. For details on each of the above, please refer to the rules and requirements of each graduate school. In addition, at the same period, students are evaluated (Basic Doctoral Ability Qualification) to ensure that they have acquired a comprehensive academic knowledge and are required to pass this evaluation.

Screening criteria

- To have earned the required number of credits to complete the Master Program in their respective graduate schools (except students in the Graduate School of Medicine).
- To have submitted a master thesis or its equivalent and have their academic knowledge deemed sufficient in their respective graduate schools (except students in the Graduate School of Medicine).
- To have passed the entrance examination for a doctoral program or its equivalence (except students in the Graduate School of Medicine).
- To have earned the required number of credits (including English proficiency) in the GSS Program. (Students are required to earn at least 2 credits of compulsory classes and complete at least one practical curriculum.)
- To write a summary of their master thesis or its equivalent in addition to a research plan for the doctoral program in English, and have their academic knowledge deemed sufficient to start a doctoral research (except students in the Graduate School of Medicine).
- Students in the Graduate School of Medicine are required to write their research progress and plan in English, and have their academic knowledge deemed sufficient.
- Oral examination for evaluation of (e) and (f) will be held at the beginning of March, in which each student will have to make a 10-minute presentation and answer questions for 15 minutes, in English.

(6) Graduation Requirements and Program Timeframe

Students who aspire to graduate from the Global Survivability Studies Program and obtain a diploma such as described in **Table 4**, in parallel with the program and research in their respective graduate school, are required to attend and pass all the categories from (a) to (g).

(a) Global Survivability Studies Program classes

In order to develop a broad-based knowledge and a specific expertise, students are required to attend classes offered by the 9 graduate schools involved in the program. They have to complete 4 compulsory

subjects (8 credits), optional compulsory subjects (2 credits) and optional subjects (4 credits).

(b) Field training

In order to carry out their research project with interdisciplinary/multidisciplinary perspective, students are required to plan and conduct their own field training.

(c) Internship

To cultivate flexible thinking, determination and the ability to take action, students are required to participate in an internship in the industrial sector, a governmental organization, an international organization and a domestic or overseas university.

(d) Interdisciplinary seminar

In order to cultivate a broad vision and to avoid immersing in his/her own discipline, students are required to participate in a variety of seminars covering a wide array of research subjects, and expected to gain insight through discussion.

(e) International academic exchange

Students are required to either participate in an intensive international school along with students from other universities in Japan and abroad, or make presentations in international academic conferences, developing their adaptability and their ability to conduct their own research through lectures, training and discussions.

(f) Industry-University Collaborative Project

Based on their own suggestions, students are required to design a few months project in partnership with the staff member (or a small group) of a company, and to conduct this project with this partner. Students are expected to find a partner ready to follow their ideas, to take the lead in conducting their project, and thus develop the ability to carry their project through. The process of getting to know a company and getting them to know you also provides the students with the opportunity to create a career path. Students are recommended to implement several Industry-University Collaborative Projects.

(g) International Cooperation Project

Based on their own suggestions, students are required to plan a bilateral (or multilateral) research project or event, in partnership with an overseas collaborative organization (university, research institute, company), NPO, NGO, or an individual (a student from a foreign university for example), thus developing the ability to carry a project through in an international setting.

(7) ePortfolio (GSSfolio system)

The GSSfolio is a tool for GSS students to compile accurate records of their learning results. Every student must provide continuous updates to his/her academic adviser and other faculty members. The content of the GSSfolio is used in part of the assessment of the students.

Table 5 – Curriculum map

GSS Goals	Coursework in Leading Subjects	Field training	Internship	Interdisciplinary seminars	International academic exchange	Industry-University Collaborative Project	International Cooperation Project
Knowledge of GSS Topics	◎			○	○		
Interdisciplinarity	◎			◎			
Project Management						◎	◎
Addressing Real World Problems		◎	○			○	○
Interpersonal Communication		○	○			○	○
Appropriate Scientific Communication					◎	○	
Multicultural Collaboration			◎				○
Demonstrating Initiative						◎	◎

Practicing Ethical Behavior		○	○			○	○
Toughness and Appealing Personality	○	○	○	○	○	○	○

◎: Goal required to complete the activity

○: Goal recommended to complete the activity

(8) Homeroom

The program students are required to attend GSS homeroom during L1. While exempt from credits, the GSS homeroom is compulsory for all program students. The GSS homeroom is held by GSS mentors about once a month and attendance is taken into account in the selection process of qualification, etc. In addition, about the students after L1, it is left to each student to participate the GSS homeroom when there is no special designation. But participation may be recommended depending on the contents of the GSS homeroom.

(9) Final Screening and Certification

At the final stage of the GSS Program, a final screening will be held to determine whether both research for academic degree and comprehensive academic knowledge required in the GSS Program have been positively achieved. All GSS students must pass this screening in order to be certified as having successfully completed the program.

Screening Criteria

Examinees are GSS program students who fulfill, or are anticipated to fulfill, the following requirements.

- (a) Students who submitted a Petition for Doctoral Dissertation Review.
- (b) Students who have completed the following curriculum, as established in the GSS course guideline, by the time they earn their doctoral degree.
 - a. Global Survivability Studies Program classes
 - b. Field training
 - c. Internship
 - d. Interdisciplinary seminar
 - e. International academic exchange (Former International School)
 - f. Industry-University Collaborative Project
 - g. International Cooperation Project
- (c) Students who have admitted to attain GSS values of a global leader (10 leadership goals), as established in the GSS course guideline, by the time they earn their doctoral degree.
- (d) Students whose issues and activities from the perspective of Global Survivability Studies contribute excellently to their doctoral dissertation. (Students must write clearly about the relationship between the GSS Program and arguments, methods, analysis etc. in their own doctoral dissertation in the summaries).
- (e) Students who recorded evidence of (b) and (c) in the GSSfolio.
- (f) The GSS Program final screening committee, which is formed for each candidate, shall investigate whether the candidate satisfy the above criteria (b) (c) and (d).

- (g) For above investigation, the candidate shall make a presentation in English at the final screening and certification meeting based on his/her summaries of Doctoral Dissertation and Relationship between GSS Program Activities and Doctoral Dissertation.

5. Curriculum Categories

(a) Global Survivability Studies Program classes (Table 6)

Compulsory classes (4 classes, 8 credits) : The 4 classes below are compulsory for all students involved in the program, and are designed to provide a common set of knowledge in Global Survivability Studies.

- Global Survivability Risk Management (2 credits, Graduate School of Advanced Integrated Studies in Human Survivability (GSAIS), 2nd semester)
- Agriculture and Environment in Japan (2 credits, Graduate School of Agriculture, 1st semester)
- Human Safety and Security Studies (2 credits, Graduate School of Education, 2nd semester)
- Global Survivability Studies (2 credits, Graduate School of Engineering, 1st semester)

Note: For students who enrolled in fiscal year 2018 or before 2018, the Compulsory class “Global Survivability Risk Management” will be replaced by “Introduction to Risk Studies” and “Agriculture and Environment in Japan” will be replaced by “Sustainable Food Production”.

Optional Compulsory classes (2 credits) : Students are required to choose classes (corresponding to at least 2 credits) among the followings.

- Information Analysis and Management (2 credits, Informatics Common Classes, Graduate School of Informatics, 1st and 2nd semesters)
- Information Analysis and Management Exercise (1 credits, Informatics Common Classes, Graduate School of Informatics, 1st and 2nd semesters)
- Clinical Psychology of War and Disaster (2 credits, Graduate School of Education, 1st semester)
- Engineering Ethics and Management of Technology (2 credits, Graduate School of Engineering, 1st semester)
- Risk and Society (2 credits, Graduate School of Asian and African Area Studies, 1st semester)
- Interdisciplinary Graduate Courses (not including GSS compulsory classes)

Please refer to URL : <http://www.z.k.kyoto-u.ac.jp/for-internal/daigakuin>

Optional classes (4 credits) : The graduate schools and departments involved in the program recommend various classes for the Global Survivability Studies Program in the field of safety and security in **Table 6**. Students are required to complete at least 4 credits from this category.

It should be noted that students have to submit an “auditing student application form” to their own graduate school during the prescribed period, when they wish to attend classes offered by other graduate schools. To know if their graduate school admits the credits they earn in the GSS Program, students need to refer to the requirements of their respective graduate school (see **Table 8** on page 20).

(b) Field training

Students are required to take part in one of the field trainings below and to get approval after assessment from the curriculum committee. Before conducting their training, students need to submit their research activity plan in the GSSfolio to their academic supervisor and GSS mentor(s) and receive their permission.

- Overseas Field Training : Students take part in a field training (observation, experiments, research, etc.) of at least one week abroad.
- Domestic Field Training : Students take part in a field training (observation, experiments, research, etc.) of at least one week in Japan.

(c) Internship

Students are required to take part in one of the internships below and to get approval with assessment from curriculum committee. Before conducting their internship, students need to submit their research activity plan in the GSSfolio to their academic supervisor and GSS mentor(s) and receive their permission.

- Overseas Internship : Students take part in an internship of at least one week in a research institute or a company overseas.
- Domestic Internship : Students take part in an internship of at least one week in a research institute or a company in Japan.

(d) Interdisciplinary seminar

Students are required to take part in 15 sessions of interdisciplinary seminars and to get certification. 4 sessions out of 15 should be leadership development workshop sessions.

(e) International academic exchange

Students are required to either take part in one of the international schools (about a week) below and to get certification upon assessment by the curriculum committee, or make presentations as the first author of the paper at different international conferences or international academic meeting. Before attending the school or making a presentation, students need to submit their research activity plan in the GSSfolio to their academic supervisor and GSS mentor(s) and receive their permission.

- Nagoya University • Kyoto University UNESCO IHP International Hydrological Program
- United Nations University • Kyoto University Training Course
- Domestic Training Course or School held occasionally in Japan
- International Training Course or School held occasionally overseas

(f) Industry-University Collaborative Project

Students are required to conduct one of the collaborative projects below and to get certification upon assessment by the curriculum committee. Before conducting the project, students need to submit their research activity plan in the GSSfolio to their academic supervisor and GSS mentor(s) and receive their permission.

- Industry-university collaborative project I (Compulsory)
- Industry-university collaborative project II (Optional)

(g) International Cooperation Project

Students are required to conduct the project below and to get certification upon assessment by the curriculum committee. Before conducting the project, students need to submit their research activity plan in the GSSfolio to their academic supervisor and GSS mentor(s) and receive their permission.

- International Cooperation Project

Table 6 - Global Survivability Studies Program (GSS) class Categories

Compulsory classes

Graduate School	Compulsory Classes Number	Code	Class Name	Professor in Charge	Credits	Semester	Time	Remarks

GSAIS* ¹	GSS-1	3029000	Global Survivability Risk Management	Yamashiki, Takara et al.	2	2nd	Wed.3	English It will be replaced by "Introduction to Risk Studies" for students who enrolled 2018 or before 2018
Agriculture	GSS-2	Z002	Agriculture and Environment in Japan	Akamatsu et al.	2	1st	Thu. 2	English It will be replaced by "Sustainable Food Production" for students who enrolled 2018 or before 2018
Education	GSS-3	8940000	Human Safety and Security Studies (安全安心文化学)	Kudo, Lahournat	2	2 nd Intens		English
Engineering	GSS-4	10F113	Global Survivability Studies	(GSAIS) Takara et al.	2	1st	Tue.5	English

*¹ Graduate School of Advanced Integrated Studies in Human Survivability

Compulsory Optional classes

Graduate School	Code	Class Name	Professor in Charge	Credits	Semester	Time	Remarks
Informatics	8018000	Information Analysis and Management	Yoshikawa, Asano, Kato	2	1st	Mon.4	Students are encouraged to take both classes as a set.
Informatics	8019000	Information Analysis and Management, Exercise	Kato, Asano	1	1st	Mon.5	
Informatics	8018001	Information Analysis and Management	Yoshikawa, Asano, Kato	2	2nd	Mon.4	Same content as 1 st semester
Informatics	8019001	Information Analysis and Management, Exercise	Kato, Asano	1	2nd	Mon.5	
Education	8942000	Clinical Psychology of War and Disaster		2			not open in 2019 English
Engineering	10G057	Engineering Ethics and Management of Technology	Sawaragi et al	2	1st	Thu.3	
Asian and African Area Studies	5133	Risk and Society	Nishi, Yoshikawa	2	1st	Tue.3	English
Interdisciplinary Graduate Courses ◇				2			

◇ Please refer to URL:-<http://www.z.k.kyoto-u.ac.jp/for-internal/daigakuin>

Optional classes: recommended classes from the graduate schools and departments participating in the Global Survivability Studies Program.

Note: This list is as of April 2019. Due to changes in the graduate school educational system, they may be subject to change or be added. Students can take changed and added classes if they are listed in the syllabi of the upcoming year.

Graduate School	Code	Class Name	Professor in Charge	Credits Semester		Time	Remarks
Education	6122000	International Frontiers in Education and Research I	Manolo	2	1st	Intens.	English *
	6232000	Advanced Studies: Comparative Education I	Sugimoto	2	1st	Fri.4	*
	6281000	Advanced Studies :Curriculum and Instruction I	Nishioka	2	1st	Wed.2	*
	6282000	Advanced Studies: Curriculum and Instruction II	Ishii	2	2nd	Tue.2	*
	6308000	Seminar on Pedagogy I	Suzuki, Hirose	2	1st	Wed.3・4	alternate week *
	6309000	Seminar on Pedagogy II	Suzuki, Hirose	2	2nd	Wed.3・4	alternate week *
	6480000	Advanced Studies: Developmental Science I	Myowa, Moriguchi	2	1st	Tue.2	*
	6481000	Advanced Studies: Developmental Science II	Myowa, Moriguchi	2	2nd	Tue.2	*
	7268000	Studies in Lifelong Education I	Sano	2	1st	Wed.4	
	7269000	Studies in Lifelong Education II	Sano	2	2nd	Wed.4	
Education	7511000	Readings in Lifelong Education		2			* not open in 2019
	8826000	Seminar on Clinical Consultation in Field	Takahashi,Nishimi	4	both	Wed.3 (1 st) Tue. 5・6 (2 nd)	* doctoral program
	8941000	Clinical Psychology of Violence and Crime		2			not open in 2019
Economic		International Agribusiness Studies	Hisano	2	1st	Mon.3,4	alternate week English
		International Political Economy of Agriculture	Hisano	2	2nd	Mon.3,4	alternate week English
		Environmental Economics Analysis A	Morotomi	2	1st	Wed.3	
		Environmental Economics Analysis B	Morotomi	2	2nd	Wed.1・2	alternate week
		Intermediate Macroeconomics	Yuki	2			not open in 2019
		Intermediate Microeconomics	undecided	2			not open in 2019
		Intermediate Econometrics	Nishiyama	2	2nd	Tue. 1	
		Economics of Growth and Cycles	Sasaki	2	1st	Wed.3	
		Industrial Economics	Ida	2	1st	Wed.3	
		Business Economics Theory	Sugiyama	2	1st	Wed.2	
	Management Accounting Theory A	Sawabe	2	2nd	Wed. 1,2	alternate week	

		Development Economics 1	Kono	2			English not open in 2019
		Development Economics 2	Kono	2	1st	Thu.1	English
		Welfare Economics	Oka	2			not open in 2019
Science	5016	Atmospheric Physics I A	Ishioka	2	1st	Wed.2	Jpn.,Eng.
	5017	Atmospheric Physics I B	Yoden	2	2nd	Mon.4	English ★ not open in 2019
	5020	Atmospheric Physics III A	Shiotani et al.	2	1st	Mon.4	not open in 2019
	5021	Atmospheric Physics III B	Shiotani et al.	2	2nd	Mon.2	
	5044	Environmental Geoscience I A	Terajima et al.	2	1st	Mon.5	
	5045	Environmental Geoscience I B	Kamai et al.	2	2nd	Thu.2	★
	5052	Applied Meteorology II A	Ishikawa et al.	2	1st	Mon.4	
	5053	Applied Meteorology II B	Ishikawa et al.	2	2nd	Thu.2	
	5217	Field Lab. in Multi-scale Earth Dynamics I	Yoden et al.	2	irr.	-	Jpn., Eng.
	5218	Field Lab. in Multi-scale Earth Dynamics II	Shiotani et al.	2	irr.	-	Jpn., Eng. not open in 2019
	6002	Multi-scale Earth Dynamics: Solid Earth Sciences	Noda et al.	2	1st	Mon.4・5	Jpn., Eng.
	6003	Multi-scale Earth Dynamics: Geomaterial Sciences	Hirajima et al.	2	1st	Mon.4・5	Jpn., Eng. ★ not open in 2019
Medicine	H118	Epidemiology I (Introduction to Epidemiology)	Nakayama	1	1st	Fri. 3・4	
	H009	Socio-epidemiology I	Kihara Masako	2	1st	Mon. 3	
	H019	Socio-epidemiology II	Kihara Masako	2	2nd	Mon. 3	
	H020	Human Ecology	Sakamoto	2	2nd	Mon.4	
	H133	Health, Medical and Welfare System	Satamura	2	2nd	Thu. 3・4	1 st part
	H028	International Health	Satamura	2	2nd	Thu. 3・4	2 nd part
	H130	Health Informatics I	Nakayama	2	2nd	Fri. 2	
Medicine	H070	Infectious Disease Epidemiology	Musumari Patou Masika, Kihara	1	1st	Thu. 2	2 nd part English
	H124	Occupational health and environmental health sciences	Harada,Koizumi	1	1st	Thu. 2	1 st part
	H088	Environment and Infection	Nishibuchi	2	2nd	Tue.5	
	H128	Health Care Systems and Policies around the World	Imanaka	1	1st	Wed. 2	1 st part, English
	H125	Healthcare System and Policy	Imanaka	1	1st	Wed. 2	2 nd part
Engineering	10A216	Hydrology	Tachikawa, Ichikawa, Yorozu	2	2nd	Tue.2	English ★
	10A222	Water Resources Systems	Hori, Tanaka	2	1st	Tue.1	☆
	10A632	Urban Metabolism Engineering	Takaoka, Oshita	2	1st	Tue.3	English
	10A626	Advanced Environmental Health	Takano	2	1st	Tue.4	
	10B052	Control for Structural Safety	Ikeda, Kurata	2	2nd	Wed.1	
	10B222	Environmental Control Engineering, Advanced	Harada	2	1st	Tue.3	
	10B241	Urban Disaster Mitigation Engineering	Kawase, Matsushima,	2	2nd	Tue.3	

			Nishino				
10B407	Robotics		Matsuno	2	2nd	Mon.2	
10F019	River Engineering and River Basin Management		Hosoda, Kishida, Onda	2	1st	Wed.1	
10F065	Hydraulic Engineering for Infrastructure Development and Management		Hosoda, Tachikawa et al.	2	2nd	Tue.3	English
10F077	River Basin Management of Flood and Sediment		Nakagawa et al.	2	1st	Mon.1	☆
10F100	Applied Hydrology		Hori et al.	2	1st	Wed.4	English
10F103	Case Studies Harmonizing Disaster Management and Environment Conservation		Nakakita et al.	2	1st	Mon.4	English
10F219	Quantitative Methods for Behavioral Analysis		Fujii	2	1st	Mon.5	
10F223	Risk Management Theory		Yokomatsu, Cruz	2	2nd	Wed.3	English
10F241	Construction of Geotechnical Infrastructures		Kimura, Kishida	2	2nd	Fri.1	
10F245	Open Channel Hydraulics		Hosoda, Onda	2	1st	Fri.1	English ★
10F261	Earthquake Engineering/ Lifeline Engineering		Kiyono, Igarashi	2	1st	Tue.4	English
10F267	Hydro-Meteorologically Based Disaster Prevention		(GSAIS)Takara et al.	2	1st	Mon.3	☆
10F269	Coastal and Urban Water Disasters Engineering		Igarashi et al.	2	1st	Wed.2	★
10F439	Environmental Risk Analysis		Yoneda et al.	2	1st	Wed.4	English
10F458	New Environmental Engineering II, Advanced		Takaoka et al.	2	2nd	Mon.5	English
10F464	Hydrologic Design and Management		Tachikawa, Ichikawa	2	1st	Fri.2	
10F466	Basin Environmental Disaster Mitigation		Fujita et al.	2	1st	Mon.3	★
10G013	Control Theory for Dynamic Systems		Sawaragi et al.	2	1st	Tue.2	
10X333	Disaster Risk Management		Tatano, Yokomatsu, Samaddar	2	1st	Wed.4	English
10Z003	Urban Transport Management		Muranaka, Fujii et al.	1	1st Intens.	Wed.4	◇
693287	Disaster Information		Yamori et al.	2	1st	Wed.3	◆
Agriculture	BA05	Forest Utilization I	Osawa	2	1st	Tue.3	★ P.E.
	BA06	Forest Utilization II	Okada	2	2nd	Wed.4	☆ P.E.
	BA11	Theory of Erosion Control	Kosugi, Nakatani	2	2nd	Fri.2	★P.E.
	BA79	Fibrous Biomaterials II	Wada	1	2nd	Mon.2	P.E.
	BA66	Bio-based Materials Physics	Yano et al.	2	1st	Fri.4	☆
	BA44	Forest Resource and Society 1	Kanzaki	1	1st	Thu.2	☆ P.E.
	BA46	Forest Resource and Society 3	Kanzaki	1	1st	Thu.2	★P.E.
	BA48	Tropical Forest Environments 1	Kitajima	1	1st	Tue.2	P.E.
Agriculture	BA49	Tropical Forest Environments 2	Onoda	1	2nd	Tue.2	P.E.
	BA68	Science for Humano-habitability	Yoshimura, Hata, Yanagawa	2	1st	Fri.4	P.E.
	BA69	Forest Science I	Kitajima, Kanzaki, Shibata, Isagi	2	1st	Mon.5	P.E.
	BA70	Wood Science I	Takabe, Takano, Fujii	2	2nd	Tue.2	P.E.
	CA11	Plant Nutrients -Function and Acquisition-	Kobayashi	1	1st Intens.		P.E.
	CA13	Metabolic Science of Forest Plants and Microorganisms	Umezawa et al.	1	1st Intens.		

	CA28	Applied Microbiology for Human Life	Ogawa, Sakai, Kita	1	2nd Intens.		English
	CA29	Advanced Applied Biochemistry	Ueda Mitsuyoshi, Watanabe, Kioka	1	2nd Intens.		English
	CA31	Bioorganic Chemistry	Miyagawa, Nakagawa	1	2nd Intens.		
	EA21	Hydrological Environmental Engineering	Undecided	2	1st	Tue.2	★P.E.
	FA49	Regional Environmental Economics 1A	Umetsu	2	1st	Tue.3	P.E.
	FA50	Regional Environmental Economics 1B	Umetsu	2	2nd	Tue.3	P.E.
	FA51	Regional Environmental Economics 2A	Umetsu	2	1st	Tue.3	P.E.
	FA52	Regional Environmental Economics 2B	Umetsu	2	2nd	Tue.3	P.E.
	FA55	Agricultural and Environmental Policy 2A	Itoh	2	1st	Mon.3	P.E.
	FA56	Agricultural and Environmental Policy 2B	Itoh	2	2nd	Mon.3	P.E.
	FA57	Forest Policy and Economics 1A	Kuriyama	2	1st	Fri.2	P.E.
	FA58	Forest Policy and Economics 1B	Kuruyama	2	2nd	Fri.2	P.E.
	FA59	Forest Policy and Economics 2A	Kuriyama	2	1st	Fri.2	P.E.
	FA60	Forest Policy and Economics 2B	Kuriyama	2	2nd	Fri.2	P.E.
	FA83	Forest and Resource Economics A	tbd	2	1st	Wed.2	P.E.
	FA84	Forest and Resource Economics B	Mitani	2	2nd	Wed.2	P.E.
Asian and African Area Studies	1102	Ecological History II	Furusawa	2	1st	Fri.3	
	1104	Environmental Ecology II	Takeda	2	1st	Tue.5	
	2502	African urban society	Hirano (Nomoto)	2	2nd	Wed.2	
	2602	Local Knowledge and Endogenous Development	Shigeta	2	1st	Tue.6	not open in 2019
	3113	Interdisciplinary Approach to Sustainable Humanosphere	Kouno	2	2nd	Thu.1	
	5107	Environment and Infection		2	2nd	Tue.5	not open in 2019
Informatics	3287000	Disaster Information	Yamori, Hatayama, Onishi	2	1st	Wed.3	Japanese
	3291000	Emergency Management	Hatayama, Tatan o, Samaddar	2	2nd	Mon.3	Japanese
Informatics	3646000	Remote Sensing Engineering	Yamamoto, Hashiguchi	2	2nd	Mon.4	Japanese
	3683000	Radio and Optical Measurement of Earth's Atmosphere	Hashiguchi, Yamamoto, Furumoto, Yabuki	2	2nd	Mon.5	English
Global Environmental Studies	3213	Environmental Infrastructure Engineering	Katsumi, Takai	1	1st part	Wed. 1	English
	3251	Watershed Water Environment Management	Fujii, Tanaka, Harada	1	1st part	Tue.1	English
Graduate	1001000	Introduction to Advanced and Integrated	Sekiyama et al.	2	1st	Thu.1	

School of Advanced Integrated Studies in Human Survivability (GSAIS)		Studies in Human Survivability					
	1012000	International Economics: Application to Emerging Economies	D.IALNAZOV	2	1st	Thu.3	
	1015000	Theory of Global Technology Strategy	Sakurai	2	2nd	Fri.1	
	1016000	Global Natural Resources and Energy Cycle	Sakurai	2	2nd	Fri.2	
	2014000	Philosophy of Mind: East & West	Deroche, Marc-Henri	2	1st	Tue.1	
	2013000	Topics in Cognitive Neuroscience	Sekiyama	2	2nd	Tue.1	
	2015000	Psychological measurement	Sekiyama	2	1st	Tue.1	
	2016000	Sustainable Development and the Energy Transition	D.IALNAZOV	2	2nd	Thu.3	
	2017000	Buddhism Across Asian Civilisations	Deroche, Marc-Henri	2	2nd	Mon.5	
	3001000	Earth, the Water Planet	Yamashiki,Asai	2	1st	Wed.3	
	3003000	Advanced Studies Harmonizing Disaster Management and Environmental Conservation	Takara,Yamori, Yamashiki	2	1st	Wed.4	
	3026000	Communication between science and public	Isobe	2	1st	Mon.2	
	3027000	Humanity in the universe	Yamashiki,Asai, Isobe	2	2nd	Thu.1	
	3030000	The Study of Human Space Activities	Yamashiki,Doi, Taguchi,Yumoto et al.	2	2nd	Wed.5	
	4005000	Mathematical Statistics-Data Science 1 -	Ikeda	2	1st	Tue.2	
	4006000	Science of complex systems-Data Science 2 -	Ikeda	2	2nd	Tue.2	
	4035000	International Politics	Sakamoto	2	2nd	Fri.2	
	4025000	Introduction to Operations Research	Liang Zhao	2	1st	Tue.4	
	4026000	Advanced Optimization	Liang Zhao	2	2nd	Mon.2	
	4027000	Theory of creating innovation	Yamaguchi	2	2nd	Fri.5	
	4028000	How science was born	Yamaguchi	2	1st	Fri.5	
	4029000	Energy Finance	Kanamura	2	1st	Thu.2	
	4030000	Risk Management	Kanamura	2	2nd	Thu.2	
	4031000	Global Communication I	Kawai	2	2nd	Wed.3, Thu.1	
	4032000	Global Communication II	Kawai	2	2nd	Wed.4 Thu.2	

*: Regarding the classes provided by the Graduate School of Education, students are required to check the requirement for class registration with the professor in charge before they attend the class.

Intens.: intensive class.

irr.: irregular schedule.

◇: Classes offered by the Transport Policy Research Unit, Graduate School of Engineering.

◆: Classes offered by the Graduate School of Engineering and provided by the Graduate School of Informatics.

☆: Bi-yearly class that starts in 2019.

★: Bi-yearly class that will start in 2020.

P.E.: Possibly English, i.e. be able to offered in English

6. Requirements for Completion

As indicated in **Table 7** below, each graduate school requires a certain number of credits in order to complete their Master and Doctorate programs. Regarding the special classes offered by the Global Survivability Studies

Program and the classes provided by each graduate school, students need to refer to the requirements of their graduate school to know how many of which they can take (see **Table 8** below).

Table 7 - Graduation requirements for the graduate schools and departments involved in the Inter-Graduate School Program for Sustainable Development and Survivable Societies (as of 2018)

Graduate School	Department or Division	Master Program Required Credits	Doctorate Program Required Credits	Remarks
Education	Department of Education	30 credits Master thesis	Doctoral thesis	Doctorate: Course of Educational Training of Clinical Supervision, specialized educational training course only At least 20 credits
	Department of Clinical Education			
	Interdisciplinary Studies in Education Division			
Economics	Department of Economics	30 credits Master thesis	Doctoral thesis	
Science	Division of Earth and Planetary Sciences	30 credits Master thesis	Doctoral thesis	
Medicine	Department of Medicine and Medical Science	30 credits · Doctoral thesis		4-year course
	School of Public Health	30 credits	6, 13 or 19 credits Doctoral thesis	Doctorate Program: medical (13 credits), non-medical (19) and professional (6) degree
Engineering	Civil and Earth Resources Engineering	30 credits Master thesis	10 credits Doctoral thesis	
	Urban Management			
	Environmental Engineering			
	Architecture and Architectural Engineering			
	Mechanical engineering and Science			
Agriculture	Agronomy and Horticultural Science	30 credits Master thesis	Doctoral thesis	
	Forest and Biomaterials Science			
	Applied Life Sciences			
	Applied Biosciences			
	Environmental Science and Technology			
	Natural Resource Economics			
Asian and African Area Studies	Southeast Asian Area Studies	40 credits Preliminary doctoral thesis Doctoral thesis		5-year course
	African Area Studies			
	Global Area Studies			
Informatics	Social Informatics	30 credits Master thesis	6 credits Doctoral thesis	
	Communications and Computer Engineering			
Global Environmental Studies	Doctorate Program in Global Environmental Studies		6 credits Doctoral thesis	
	Doctorate Program in Environmental Management	30 credits Master thesis	14 credits Doctoral thesis	10 credits each for internship, Master, Doctorate

Table 8 - Credit requirements for each graduate school involved in the Global Survivability Studies Program

Graduate School of Education	As a rule, special classes offered by the Inter-Graduate School Program for Sustainable Development and Survivable Societies and classes provided by other graduate schools cannot be used as credits for degree completion in the Departments of Education of Clinical Education. However, if students register in advance for a class and receive authorization for it, it may then be used credits for degree completion.
Graduate School of Economics	Within their credit requirements, students registered in the Inter-Graduate School Program for Sustainable Development and Survivable Societies can select a maximum of 6 credits from the special lectures offered by this program.
Graduate School of Science	According to the Master Program graduation requirements of the Division of Earth and Planetary Sciences, special classes offered by the Inter-Graduate School Program for Sustainable Development and Survivable Societies, classes provided by other departments and graduate schools, as well as the Faculty of Science common classes can be used as credits for degree completion, up to a total of 4 credits. However, in order to be able to use these credits, students have to ask their academic supervisor within 2 months after the start of each semester, and obtain an authorization from the department faculty board.
Graduate School of Medicine	Special classes offered by the Inter-Graduate School Program for Sustainable Development and Survivable Societies, as well as classes provided by each graduate school cannot be used to complete the credit requirements imposed by the Department of Medicine and Medical Science and the School of Public Health.
Graduate School of Engineering	Students have to complete the number of credits required for each class type (from the list of classes provided in the graduation handbook of each department), and the total number of credits required for graduation. However, classes of the Graduate School of Engineering that are not in the list, as well as classes approved for credits in other graduate schools, and classes approved by the director of the department upon student's request can all be used as credits for degree completion. Details vary depending on the department.
Graduate School of Agriculture	Classes offered by the Inter-Graduate School Program for Sustainable Development and Survivable Societies can be used as credits for master degree completion upon approval of the Graduate School faculty meeting. Please note that the procedures and requirements differ depending on the departments, and students need to inquire the details in advance.
Graduate School of Asian and African Area Studies	Credits from classes offered by the Inter-Graduate School Program for Sustainable Development and Survivable Societies and classes provided by other graduates schools can be used as credits for degree completion, up to a total of 10 credits, provided that students submit auditing student applications to the curriculum office by the deadline, if they attend the classes offered by other graduate schools. In the case of Third-Year enrollment students, they need 10 credits certified by their own graduate school.
Graduate School of Informatics	Upon approval of their academic supervisor, students of the Department of Social Informatics who registered for the Leading Graduate School Program can use classes offered by this program as credits for degree completion, up to a total of 10 credits. In the Department of Communications and Computer Engineering, classes offered by the Inter-Graduate School Program for Sustainable Development and Survivable Societies can only be used as surplus credits (not valid as credit for degree completion), unless students obtain approval beforehand.
Graduate School of Global Environmental Studies	In the Master Program, classes from other graduate schools can be uses as credits for degree completion, up to a total of 4 credits.

7. Academic Supervisors • GSS Secondary Academic Supervisors • GSS Mentors

In this Program, each student is assigned academic supervisors (main supervisor and secondary supervisor) affiliated to the graduate school the student is enrolled in. Moreover, in order to receive appropriate guidance regarding the GSS Program, they are also assigned a GSS secondary academic supervisor from another graduate school as well as GSS mentors.

Main and GSS secondary academic supervisors must be faculty members affiliated with the program.

Details of faculty members are determined by the Leading Graduate School for Sustainable Development and Survivable Societies, Center for Educational Program Promotion in Graduate School , Kyoto University.

(1) Academic Supervisors

The program students are required to register their academic supervisors (secondary supervisors as well if applicable) to the GSS office. Students need to participate in the program upon consultation with and approval from their academic supervisors. Any changes of their academic supervisors need to be reported to the GSS office. In the case that their academic supervisors are not "program faculty members", they will be registered as "program cooperators" until their students complete the program.

(2) GSS Secondary Academic Supervisors

Program students are required to choose and register one Kyoto University tenured faculty member who belongs to a different graduate school from their own (faculty members who have additional positions in their own graduate school, cannot be candidates), as their GSS secondary academic supervisor. They need to decide their GSS secondary academic supervisor after an interview with him/her. They are also required to report any changes of GSS secondary academic supervisor to the GSS office. In the case that the person they chose is not a "program faculty member", he/she will be registered as "program cooperators" until their students complete the program.

(3) GSS Mentors

Program students are assigned GSS mentors in order to receive appropriate guidance regarding the GSS Program. Students carry out the GSS curriculum in constant contact with them. One program student is assigned one or two GSS mentors. The details are announced at the beginning of the semester.

8. Syllabi

The syllabi of curriculum categories (a) to (g) can be found in the following pages.

(a) Compulsory classes, Compulsory Optional classes and Optional classes

- 1) The information contained in the following syllabi is as of March 2019 and replicates the formats used by each graduate school.
- 2) Due to change in staff and/or in curriculum content, the information in the following syllabi may be subject to change. Students can take changed and added classes if they are listed in the syllabi of the upcoming year.
- 3) Students are required to register for each class, and also need an additional registration form for classes taken outside their graduate school.