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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 GSS Program intends to cultivate human resources in new emerging interdisciplinary area of "Global Survivability Studies" such as human resources filled with the sense of mission and ethics necessary to overcome crises the human being is facing and to enrich human society and contribute to its well-being and human resources with sound judgment and energy to take actions based on expertise, a wide vision, knowledge and wisdom. This GSS Program requires those students who agree with the goals, have general knowledge and education, have ethical thinking, and have strong will to participate to this 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 and Selection Method: who, when, how to apply

As written in Diploma Policy, those students who are willing to receive our program degree are required to complete the required number of credits in their respective graduate schools and the required numbers of credits and programs provided by this GSS program. Students who are able to apply to this program are those 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. The applicants are examined by their application, intelligibility of this program, desire to learn, and their academic transcript. 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)

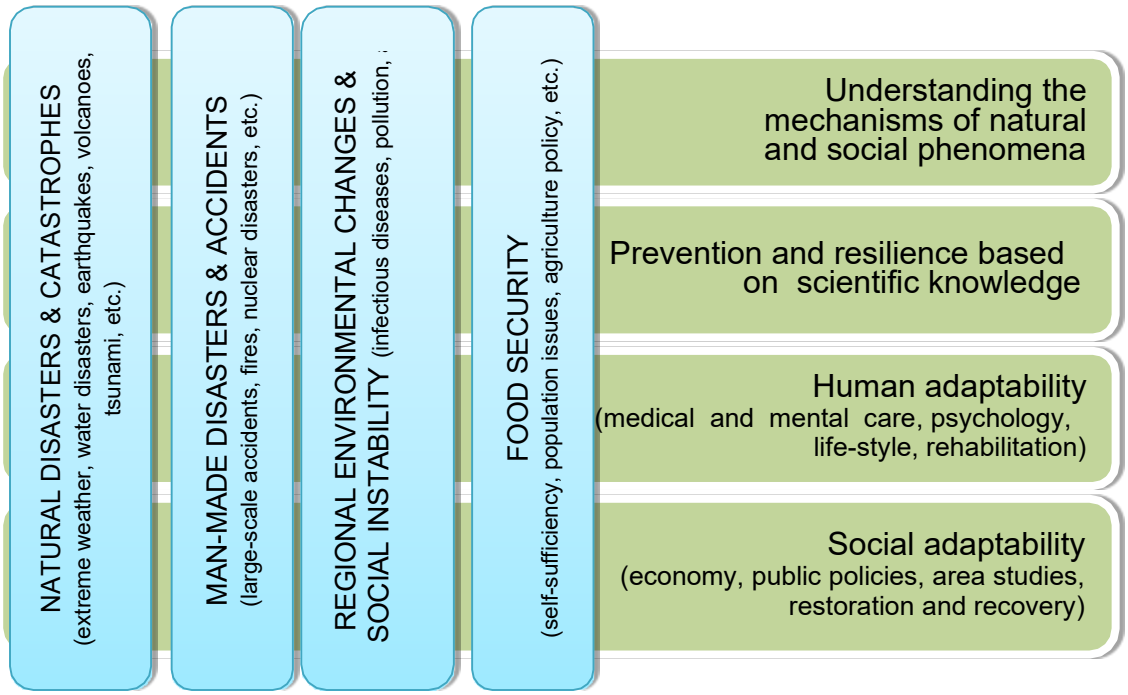

Fig.1 Scope of Global Survivability Studies

4. Global Survivability Studies Program Curriculum

Global survivability Studies Program offers 5-year program aiming to develop a new academic discipline of Global Survivability Studies which is developed to send out capable resources in the world. It is designed to develop internationalized human resources who will contribute to global society and also local society. The students are required to take the curriculum below.

(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)

<table>
<tr><td>Academic Year
Semester</td><td>L1
1st</td><td>L1
2nd</td><td>L2
1st</td><td>L2
2nd*2</td><td>L3
1st</td><td>L3
2nd</td><td>L4
1st</td><td>L4
2nd</td><td>L5
1st</td><td>L5
2nd</td></tr>
<tr><td>Graduate School
Degree Program</td><td colspan="2">Course Work</td><td colspan="2">Master Thesis or
Doctorate Research
Project</td><td colspan="4">Academic Paper Writing, etc.</td><td colspan="2">Doctorate
Thesis</td></tr>
<tr><td rowspan="3">(a) Global
Survivability
Studies Program
classes

◎Compulsory

※ Optional
Compulsory

☐Optional</td><td rowspan="9"></td><td colspan="9">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</td></tr>
<tr><td colspan="9">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</td></tr>
<tr><td colspan="9">☐ 4 credits from the classes provided by each graduate school</td></tr>
<tr><td>(b) Field training</td><td colspan="9">Any available time (Compulsory) *1 ,*2</td></tr>
<tr><td>(c) Internship</td><td colspan="9">Any available time (Compulsory) *1 ,*2</td></tr>
<tr><td>(d) Interdisciplinary
seminar</td><td colspan="9">Any available time (Compulsory) *1 ,*2</td></tr>
<tr><td>(e) International
academic
exchange</td><td colspan="9">Any available time (Compulsory) *1 ,*2</td></tr>
<tr><td>(f) Industry /
University
Collaborative
Project</td><td colspan="9">Industry-University Collaborative Project (I) (Compulsory) *1 ,*2
Industry-University Collaborative Project (II) (Optional)</td></tr>
<tr><td>(g) International
Cooperation
Project</td><td colspan="9">Any available time (Compulsory) *1 ,*2</td></tr>
</table>

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 2020)

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

(a) 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.
(b) To submit a-5year (3-year for Third-Year enrollment) research project.
(c) A20-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

(a) 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).
(b) 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).
(c) To have passed the entrance examination for a doctoral program or its equivalence (except students in the Graduate School of Medicine).
(d) 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.)
(e) 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).
(f) 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.
(g) 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	Field training	Internship	Interdisciplinary seminars	International academic exchange	Industry–Universirty 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

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 2020)

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			
	Food Science and Biotechnology			
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 2020 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.