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HIGO Program Four-year Course

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HIGO program (Basic Course, Advanced Course, Four-year Course)

**Principles of Social and Cultural Sciences; Bioethics, Public Policy and Organizational Management
(compulsory: 2 credits)**

Subject Code

Course Director: Takao Takahashi (Bioethics TEL: 342-2405) ttaka@kumamoto-u.ac.jp

Instructors: Shinya Ueno (Public Policy TEL:342-2044) ueno@gpo.kumamoto-u.ac.jp

Fumiaki Yasukawa (Organizational Economics TEL:342-2370) fyasu@kumamoto-u.ac.jp

【Objectives】

This lecture focuses on teaching the essential and representative theories in social and cultural science associated with politics, business and humanity. The lecture is divided into three parts; 1)Public policy in which we will cover the issue of policy design in relation to governance; 2)Bioethics in which we will argue autonomy, justice and human dignity, and 3)Organizational Management in which we will look at the nature of organization and management, market characteristics and the issue of incentive mechanism. This lecture will provide elements of social and human sciences which are very helpful for us to understand the holistic structure and behavior of modern society and human beings.

【Content Description】

1. Bioethics

This lecture deals with basic principles of bioethics, i.e., respect for autonomy, non-maleficence, beneficence justice and human dignity. You will study not only the content of those principles, but also their application to concrete bioethical problems, such as euthanasia, abortion, organ transplant, human cloning and allocation of healthcare resources.

2. Public Policy

This lecture introduces the basic knowledge of public policy. Policy study is an applied social science discipline designed for solving public problems such as politics, economics, philosophy, sociology, management, and social psychologies. You will develop critical-thinking skills in examining various political arguments.

3. Organizational Management

This lecture considers some of the theoretical and pragmatic aspects of organizational management. First of all, we will study the conceptual proxies of management itself, and then, we will look at the structures and attributes of them, the relationship between market and organizations, and the observable or unobservable behaviors and strategies. Finally, we will argue the issue of incentive mechanisms.

【Keywords】 Bioethics, justice, decision making, public policy, governance, organization, incentive, management

【Class Style】 PowerPoint and/or OHP will be used in the lectures, and active participation in discussions is encouraged. Extra classes or video lectures are considered for those who are regularly absent for unavoidable reasons.

【Textbooks】 Textbooks are not specified, and handouts will be distributed.

【Recommended Readings】 Not specified.

【Office Hours】 If you have any questions on the topics or schedule of the classes, please contact each instructor as listed above.

【Evaluation for Grades and Credits】 Grading will be based on paper summaries and a final report.

【Before classes】 You are expected to read a wide range of literature .

【After classes】 Prepare for the submission of reports and summary of the experimental results.

【Lecture Schedule】 Please also refer to the course timetable.

Session	Date & time	Instructors	Topics
1.Bioethics			
1 .	undecided	Dr. Takao Takahashi	Respect for Autonomy
2 .	undecided	Dr. Takao Takahashi	Non-maleficence
3 .	undecided	Dr. Takao Takahashi	Beneficence
4 .	undecided	Dr. Takao Takahashi	Justice
5 .	undecided	Dr. Takao Takahashi	Human Dignity
2.Public Policy			
6 .	undecided	Dr. Shinya Ueno	Public Policy Approach
7 .	undecided	Dr. Shinya Ueno	Designing Public Policy
8 .	undecided	Dr. Shinya Ueno	Decision Making and Public Interest
9 .	undecided	Dr. Shinya Ueno	Policy and Ideas
1 0 .	undecided	Dr. Shinya Ueno	Governance
3.Organizational Management			
1 1 .	undecided	Dr. Fumiaki Yasukawa	Concept of Management in Organizations
1 2 .	undecided	Dr. Fumiaki Yasukawa	Structure and Attributes of Organizations
1 3 .	undecided	Dr. Fumiaki Yasukawa	Organizations and Markets
1 4 .	undecided	Dr. Fumiaki Yasukawa	Behaviors and Strategies
1 5 .	undecided	Dr. Fumiaki Yasukawa	Incentive Mechanisms
1 6 .	undecided	Dr. Takahashi, Dr. Ueno and Dr. Yasukawa	Workshop for Inviting Social and Cultural Sciences

HIGO Program (Four-year Course)**HIGO Practical Training****(Compulsory: 1 credits)****Subject Code**

Course Director: Minetaro Ogawa (Cell Differentiation TEL:373-6591) ogawamin@kumamoto-u.ac.jp

Instructors: Staff of the laboratories in charge

【Objectives】

Various experimental methods and techniques are applied in the field of health life science, which is an interdisciplinary research based on molecular biology, cell biology, biochemistry, histology, pathology, immunology, developmental biology, epidemiology, internal medicine, pharmacology, organic chemistry, physical pharmaceutics and biopharmaceutics. For researchers in the field, it is required to learn such experimental methods and techniques practically. Even for researcher outside the field, it is important to understand a background of the experimental methods and techniques, since it gives us a multilateral viewpoint and would support to resolve various problems in specific research fields. Principles and practical procedures for several important experimental methods and techniques will be trained in HIGO Practical Training I.

【Content Description】

Following methods and techniques are trained:

Session:	Practical topics (Laboratory in charge)
• Ultrastructural analysis:	Scanning electron microscopy (Brain Morphogenesis)
• Cell motility analysis:	Time-lapse imaging of living culture cells (Molecular Pharmacology)
• Stem cell culture 1:	Principle of ES cell culture (Stem Cell Biology)
• Stem cell culture 2:	Induction of immunocytes from ES cells (Immunogenetics)
• Tissue culture:	Handling of developing neural tissues and cells (Developmental Neurobiology)
• Histological analysis:	Histological stain and its interpretation (Pathology and Experimental Medicine)
• Immunocytochemistry:	Indirect fluorescence antibody method (Immunology)
• Flow cytometric analysis:	Fractionation and isolation of cells by FACS (Cell Differentiation)
• Quantitative PCR:	Isolation of RNA/DNA and quantification by PCR (Medical Cell Biology)
• Evoked potential:	Measurement of auditory brainstem potential (Sensory and Cognitive Physiology)
• Behavioral analysis in mice:	Operant conditioning test, Open field test (Molecular Physiology)
• Protein purification:	Bacterial culture, induction of protein expression and purification (Molecular Cell Biology)
• DNA transfection and protein detection:	Lipofection, Western blot (Kidney Development)
• Introduction of epidemiology:	Epidemiological and statistical analysis (Public Health)
• Introduction of metabolic analysis:	Method of analysing metabolic disease (Neurology)
• Metabolic analysis 1:	Blood pressure and cardiac rate (Pharmacology and Molecular Therapeutics)
• Metabolic analysis 2:	Blood insulin (Medical Biochemistry)
• Metabolic analysis 3:	Whole body metabolism, CT (Molecular Genetics)
• Metabolic analysis 4:	Cardiovascular disease model (Cardiovascular Medicine)
• Histological analysis:	Histopathology, Immunohistochemistry (Cell Pathology)
• Oxidative stress analysis:	Tandem mass spectrometry (Microbiology)
• Preparation and evaluation of cyclodextrin supramolecules:	Preparation and evaluation of cyclodextrin polypseudorotaxanes (Physical Pharmaceutics)
• Monitoring of intracellular signaling:	Cell preparation, stimulation, observation, data processing (Pharmaceutical Biochemistry)
• Bioassay for drug development:	C. elegans as a bioassay model (Molecular Medicine)
• Measurement of oxidative stress:	Measurement of oxidative stress in cell systems (Clinical Pharmaceutics)
• CNS disease model:	Preparation and analysis of disease model in mice (Chemico-Pharmacological Sciences)
• Analysis of biomolecular interactions by use of SPR biosensor:	Kinetics and thermodynamics of antigen-antibody interactions (Analytical and Biophysical Chemistry)
• Therapeutic drug monitoring:	Population pharmacokinetics and optimal dosage regimen for neonates (Clinical Chemistry and Informatics)
• Protein X-ray crystallography:	Protein crystallization and X-ray data collection (Structural Biology)

【Class Style】

Each training course will be held in a laboratory in charge. First, the principle of a method or a technique will be lectured, then practical handling will be trained. Results, which will be discussed, must be summarized in a report.

【Textbook】 Textbooks are not specified, and handouts for each practice will be distributed

【Recommended Readings】 Not specified.

【Office Hour】 If you have any questions on topics or schedule of the classes, please contact the instructors listed above.

【Evaluation for Grades and Credits】

Students should attend at least 4 sessions. Grading will be based on active class participation and discussion and the reports. In the reports, results and comments should be summarized in one A4 sheet.

【Lecture Schedule】 Schedule of each session will be forwarded to you separately.

HIGO Program (Four-year Course)**HIGO Governmental Seminar Series****(Compulsory: 1 credit)****Subject Code**Course Director: Tetsumi Irie (Clinical Chemistry and Informatics TEL: 371-4552) tirie@gpo.kumamoto-u.ac.jpAssistant Course Director: Takahiko Kato (Public Health TEL: 373- 5112) katoht@gpo.kumamoto-u.ac.jp

Instructors: The HIGO program faculty

【Objectives】

The field of health and life sciences needs leaders equipped with a unique expertise and global perspective that will enable them to find the root of the problems facing local and global (glocal) communities and lead industry-academia-government initiatives that will bridge Japan and the surrounding region with the rest of the world. Students seeking to fill the shoes of this kind of leader must have a solid academic footing in the medical, pharmaceutical and life sciences as well as an extensive knowledge of everything from public health and welfare to environmental resources, sustainability, biodiversity, environmental ethics, and more. In this course, students will participate in discussions that address issues related to health and life sciences that affect both individuals and the global community. Discussions will focus on the current status of these problems, what needs to be done to solve them, and the outlook for the future. These discussions will go beyond conventional graduate-level educational courses to provide students with the latest information from the field and immerse them in topics covered from a glocal perspective.

【Content Description】

Lecturers from the Kumamoto prefectural government, Kumamoto municipal government, national and other government agencies will be invited to discuss topics in medical and pharmaceutical sciences as well as medical and pharmaceutical policy, welfare, environment, public health, health risk management, environmental resources, sustainability, biodiversity, environmental ethics, etc. All lectures will either be in English or interpreted into English when given in Japanese.

【Keywords】

Health care, welfare, environment, public health, environmental resources, sustainability, biodiversity, environmental ethics

【Class Style】

Class discussions will be driven by questions and answers and use PowerPoint, an overhead projector etc. Students will attend the seminars and write reports. The reports should include a summary of the lectures and the students' own thoughts on the topics.

【Textbooks】

None specified

【Recommended Readings】

None specified

【Evaluation for Grades and Credits】

Students are required to attend 8 seminar classes and submit 2 papers (via e-portfolio). Students will be graded on the basis of their papers.

【Office Hours】 Questions about the seminars, etc. may be sent to any of the faculty members listed above via e-mail. Students may also speak to faculty members in person during their office hours.

【Before Classes】 Students are encouraged to seek out information on the government agencies to be featured in the seminar lectures via the Internet, etc. prior to beginning this course.

【After Classes】 Students are encouraged to carefully review their notes and handouts from the seminar. Students who wish to speak with faculty members may see them during their office hours. Students should also review related e-learning programs when available.

【Lecture Schedule】 Students will attend seminars during their first four years. Classes do not meet at regularly scheduled dates and times. The schedule will be posted on the HIGO Program web site once it is finalized. Students are urged to check the schedule frequently.

HIGO Program (Four-year Course)

HIGO Business Seminar Series

(Compulsory: 1 credits)

Subject Code

Course Director: Hidetoshi Arima (Physical Pharmaceutics TEL: 371-4160) arimah@gpo.kumamoto-u.ac.jp

Assistant Course Director: Yuichi Oike (Molecular Genetics TEL: 373-5140) oike@gpo.kumamoto-u.ac.jp

Instructors: The HIGO program faculty

【Objectives】 The field of health and life sciences needs leaders equipped with a unique expertise and global perspective that will enable them to find the root of the problems facing local and global (glocal) communities and lead industry-academia-government initiatives that will bridge Japan and the surrounding region with the rest of the world. This course is designed to provide students with a corporate world view and cultivate a sensitivity to local needs as well as the ability to respond to those needs as a responsible corporate citizen. Leading corporate executives, researchers, developers, and other guest lecturers will be invited from across Japan, to share their experiences and show students how they can give back to society through the health and life sciences.

【Content Description】 Lecturers invited from the following selected companies will discuss the medical and pharmaceutical sciences as they relate to a diverse range of areas that span everything from corporate philosophy to compliance, corporate social responsibility, community outreach, the local economy, human resources development, internationalization, the environment, sustainability, management, public relations, and more. The class will meet 8 times. Lectures will be in English and interpreted into English when in Japanese.

(Selected Companies)

? Companies and organizations located in Kumamoto Prefecture

Society and culture-related companies: Kumamoto Nichinichi Shimbun

Pharmaceutical company: Kaketsuken (The Chemo-Sero-Therapeutic Research Institute)

? Major pharmaceutical companies in Japan

Daiichi Sankyo Co., Ltd.

? Preclinical services company in Japan: Shin Nippon Biomedical Laboratories, Ltd.

Companies that offer lectures are subject to change. Additions or changes of companies will be posted on the HIGO program web site.

【Keywords】 Corporate philosophy, corporate compliance, health, health care, drug development, drug improvement, corporate social responsibility, community outreach, internationalization, local economy, environment, public relations

【Class Style】 Classes involve question-and-answer-focused discussions using PowerPoint, overhead projector etc. Students will attend the seminars and write reports. The reports should include a summary of the lectures and the students' own thoughts on the topics.

【Textbooks】 None specified, but handouts outlining the seminar will be distributed.

【Recommended Readings】 None specified

【Evaluation for Grades and Credits】 Students are required to attend 8 seminars and submit 2 reports. Students' level of understanding in the areas specified in the course objectives will be evaluated on the basis of questions and answers during class discussions as well as their reports on the topics given after each seminar session.

【Office Hours】 Questions about the seminars, etc. may be sent to any of the faculty members listed above via e-mail. Students may also speak to faculty members in person during their office hours.

【Before Classes】 Students are encouraged to seek out information on the companies participating in the seminar via the Internet, etc. prior to beginning the course.

【After Classes】 Students are encouraged to carefully review their notes and handouts from the seminar. Students who wish to speak with faculty members may see them during their office hours. Students should also review related e-learning programs when available.

【Lecture Schedule】 Students will attend seminars during their first four years. Classes do not meet at regularly scheduled dates and times. The schedule will be posted on the HIGO Program web site once it is finalized. Students are urged to check the schedule frequently.

HIGO program (Basic Course, Advanced Course, Four-year Course)

Exercise lesson: HIGO Chinese course	(Elective: 1 credits)	Subject Code
HIGO Chinese course I	(Elective: 1 credits)	Subject Code
HIGO Chinese course II	(Elective: 1 credits)	Subject Code

Course Director: : Hiroshi Sasaki

(Cell Fate Control TEL: 373-6606) sasaki@kumamoto-u.ac.jp

Sub-director: Wen-Jie Song

(Pathology TEL: 373-5086) song@kumamoto-u.ac.jp

【Objectives】

To learn the basics of Chinese, and to acquire the skills for having simple conversations.

【Content Description】

- **[important notice!] Lectures will be given in Japanese.**
- In HIGO Chinese course I, lectures and interactive exercises will be given for unlearned students to learn the basics of Chinese.
- In HIGO Chinese course II, advanced lectures and interactive exercises, which include basic words of medical science, pharmacy and public administration, will be given.
- HIGO Chinese course (4-year course) corresponds to either HIGO Chinese course I or II according to students' own ability.

【Keywords】

Chinese exercise

【Class Style】

Intensive lecture courses by external lecturers (4 x 3 hours) and e-learning

【Textbooks】

Textbooks are not specified, and handouts will be distributed.

【Office Hour】

If you have any questions on topics or schedule of the classes, please contact the instructors listed above.

【Evaluation for Grades and Credits】

Grading will be based on paper summaries, and the achievement tests.

【Learning Before classes】

【Learning After classes】 It is recommended for you to review the handout materials distributed in the lectures and your notebooks well. It is also recommended to review the lectures by using e-learning contents.

【Lecture Schedule】

The schedule will be posted later on the homepage of the HIGO program (<http://higoprogram.org/>).

HIGO program (Basic Course, Advanced Course, Four-year Course)

Exercise lesson: HIGO English course	(Elective: 1 credits)	Subject Code
HIGO English course I	(Elective: 1 credits)	Subject Code
HIGO English course II	(Elective: 1 credits)	Subject Code

Course Director: : Hiroshi Sasaki

(Cell Fate Control TEL: 373-6606) sasaki@kumamoto-u.ac.jp

Sub-director: Wen-Jie Song

(Pathology TEL: 373-5086) song@kumamoto-u.ac.jp

【Objectives】

To acquire the skills of writing scientific manuscripts and giving scientific presentations in English.

【Content Description】

- Specialized lecturers will be invited from language schools.
- In HIGO English course I, lectures will be given on the basic skills of writing scientific manuscripts and giving scientific presentations in English.
- In HIGO English course II, advanced lectures and interactive exercises will be performed on the skills of writing scientific manuscripts and/or giving scientific presentations in English. Discussions will be made using on the manuscripts and/or the presentations prepared by the students as samples.
- HIGO English course (4-year course) corresponds to either HIGO English course I or II according to students' own ability.

【Keywords】

English writing, English presentation

【Class Style】

Intensive lecture courses will be given by external lecturers

【Textbooks】

Textbooks are not specified, and handouts will be distributed.

【Office Hour】

If you have any questions on topics or schedule of the classes, please contact the instructors listed above.

【Evaluation for Grades and Credits】

Grading will be based on paper summaries, and the final report.

【Learning Before classes】 In HIGO English course II, students should prepare and submit a short manuscript and/or a presentation that describe their own research.

【Learning After classes】 In HIGO English course II, students will receive the correction of the short manuscripts they prepared.

【Lecture Schedule】

Two day intensive course will be provided.

The schedule will be posted later on the homepage of the HIGO program (<http://higoprogram.org/>).

HIGO English course I

Day 1: basic skills of writing scientific manuscripts

Day 2: basic skills of giving scientific presentations

HIGO English course II

Day 1: advanced skills of writing scientific manuscripts, and practical exercises using short manuscripts prepared by the students.

Day 2: advanced skills of giving scientific presentations and practical exercises by giving short presentations by the students.

HIGO program (Basic Course, Advanced Course, Four-year Course)

Exercise lesson: HIGO Japanese course	(Elective: 1 credits)	Subject Code
HIGO Japanese course I	(Elective: 1 credits)	Subject Code
HIGO Japanese course II	(Elective: 1 credits)	Subject Code

Course Director: : Hiroshi Sasaki (Cell Fate Control TEL: 373-6606) sasaki@kumamoto-u.ac.jp
Sub-director: Wen-Jie Song (Sensory and Cognitive Physiology TEL: 373-5086) song@kumamoto-u.ac.jp
Instructors: Faculty members of the Center for Globalization of Kumamoto University
(<https://ewww.kumamoto-u.ac.jp/contact/>)

【Objectives】

These courses are for foreign students only. To learn the basics of Japanese, and to acquire the skills for communications in Japanese.

【Content Description】

- This course is provided by the Center for Globalization of Kumamoto University
- Three levels of courses described below will be held.
- In HIGO Japanese course I (Part 1, 8 lessons), lectures and interactive exercises will be given for unlearned foreign students to acquire the minimum ability of Japanese conversation to be required for daily life.
- HIGO Japanese course I (Part 2, 8 lessons) will extend the contents of the HIGO Japanese course I (Part 1), and improve the ability of conversation required for daily life. Although credit will not be given to this course, it is strongly recommended to take this course before taking HIGO Japanese course II
- In HIGO Japanese course II, advanced lectures and interactive exercises, which include basic words of medical science, pharmacy and public administration, will be given (8 lessons).

【Keywords】

Japanese exercise

【Class Style】

Exercises for conversation

【Textbooks】

Textbooks are not specified, and handouts will be distributed.

【Office Hour】

If you have any questions on topics or schedule of the classes, please contact the instructors listed above.

【Evaluation for Grades and Credits】

Grading will be based on paper summaries, and achievement tests etc.

【Learning Before classes】

【Learning After classes】 It is recommended for you to review the handout materials distributed in the lectures and your notebooks well.

【Lecture Schedule】

Each course will be opened twice a year.

HIGO Japanese course I (Part 1)

May (Tue. and Thu., the 3rd period [13:15~14:45]), October (Wed. and Thu., the 3rd period [13:15~14:45])

HIGO Japanese course I (Part 2)

June (Tue. and Thu., the 3rd period [13:15~14:45]), November (Wed. and Thu., the 3rd period [13:15~14:45])

HIGO Japanese course II

July (Tue. and Thu., the 3rd period [13:15~14:45]), December (Wed. and Thu., the 3rd period [13:15~14:45])

The lectures will be given in the seminar room 1 on the 4th floor of the Medical Education & Library Building.
The detailed schedule will be posted later on the homepage of the HIGO program (<http://higoprogram.org/>).

【HIGO Japanese course I (Part 1)】

Aim: To learn minimal conversations essential for daily life in Japanese

To be able to read Japanese characters: HIRAGANA and KATAKANA

Day 1: Guidance, greetings, self-introduction

Day 2: Numbers, prices

Day 3: Asking places.

Day 4: Food

Day 5: Shopping

Day 6: Transportation and time

Day 7: Emergency

Day 8: Summary

【HIGO Japanese course I (Part 2)】

Aim: To get accustomed to campus life in Japan.

To be able to understand the meaning of frequently used Chinese characters, KANJI.

Day 1: Guidance, Campus of the University

Day 2: Stuffs and students of the University

Day 3: Registration and other administrative procedures

Day 4: Using personal computers

Day 5: Laboratory

Day 6: Mail service, internet

Day 7: Weekends

Day 8: Summary

【HIGO Japanese course II】

Aim: To learn basic expressions related to medicine.

Day 1: Guidance, body parts

Day 2: Diseases, injury

Day 3: Medicine, hospital

Day 4: Health insurance, medical examination

Day 5: Medical terms (1)

Day 6: Medical terms (2)

Day 7: Medical examination

Day 8: Summary

HIGO Program (Four-year Course)

HIGO Governmental Internship

(Elective: 1 credit)

Subject Code

Course Director: Tetsumi Irie (Clinical Chemistry and Informatics TEL: 371-4552) tirie@gpo.kumamoto-u.ac.jp

Assistant Course Director: Takahiko Kato (Public Health TEL: 373- 5112) katoht@gpo.kumamoto-u.ac.jp

Instructors: The HIGO program faculty

【Objectives】

The field of health and life sciences needs leaders equipped with a unique expertise and global perspective that will enable them to find the root of the problems facing local and global (glocal) communities and lead industry-academia-government initiatives that will bridge Japan and the surrounding region with the rest of the world. Students seeking to fill the shoes of this kind of leader must have a solid academic footing in the medical, pharmaceutical and life sciences as well as an extensive knowledge of everything from public health and welfare to environmental resources, sustainability, biodiversity, environmental ethics, and more all gained through real-life work experience. In this course, students will participate in an internship related to these fields where they will put the knowledge gained via the governmental and business seminars into practice to acquire the practical skills they need. The course is designed to motivate students to learn more and explore different career paths as they discover their professional calling.

【Content Description】

Students will experience working on administrative operations related to health care policies, pharmaceutical regulations, health risk management, etc. under the auspices of the Kumamoto prefectural government, Kumamoto municipal government, national and other government agencies.

Training will be conducted in English and interpreted into English if given in Japanese.

【Keywords】

Health care, welfare, environment, public health, environmental resources, sustainability, biodiversity, environmental ethics

【Class Style】

Students will participate in a five-day (30-hour) internship at a governmental organization such as the Kumamoto prefectural government, Kumamoto municipal government, national or other government agency. Students will keep a record of what they have learned (including preparation and review work) as well as the results of their studies in the e-portfolio format. The internship will be followed by presentations and discussions by students so they can gain a better understanding of what they have studied.

【Textbooks】

None specified, but handouts outlining the internship program will be distributed.

【Recommended Readings】

None specified

【Evaluation for Grades and Credits】

The students' level of practical skills gained through their internship will be evaluated on the basis of active participation in the internship, presentations and discussions, as well as their e-portfolio.

【Office Hours】 Students who wish to speak with an instructor during or after their internship may contact any of the faculty members listed above either via phone or e-mail.

【Before Classes】 Students are encouraged to seek out information on the government agencies they will be interning with via the Internet, etc. prior to beginning this course.

【After Classes】 Students are encouraged to carefully review their notes and handouts from their internship. Students who wish to speak with faculty members may see them during their office hours. Students should also review related e-learning programs when available.

【Lecture Schedule】 Students will participate in an internship during their first four years. Classes do not meet at regularly scheduled dates and times. The schedule will be posted on the HIGO Program web site once it is finalized. Students are urged to check the schedule frequently.

HIGO Program (Four-year Course)

HIGO Business Internship

(Elective: 1 credit)

Subject Code

Course Director: Hidetoshi Arima (Physical Pharmaceutics TEL: 371-4160) arimah@gpo.kumamoto-u.ac.jp
Assistant Course Director: Yuichi Oike (Molecular Genetics TEL: 373-5140) oike@gpo.kumamoto-u.ac.jp
Instructors: The HIGO program faculty

【Objectives】

The HIGO Program aims to foster glocal pioneers in the health and life sciences who understand local needs as well as the needs of people throughout Asia and are willing to work on solving local problems through glocal partnerships. In this course, students will put the knowledge gained through the governmental and corporate seminars into practice while interning at a local company or a leading pharmaceutical company in Japan. The internship will give students access to first-hand information related to corporate philosophy, compliance, management, planning, operations, accounting, corporate social responsibility, community outreach, as well as local community needs. Students will learn to look at the world through a glocal lens as they develop the practical skills that will enable them to adapt to a changing environment.

【Content Description】

Students will participate in a 30-hour (five-day) internship at one of the following selected companies. Training will be conducted in English and interpreted into English if given in Japanese.

? Companies and organizations located in Kumamoto Prefecture

Kumamoto Nichinichi Shimbun

? Preclinical services company in Japan

Shin Nippon Biomedical Laboratories, Ltd.

Companies and organizations that accept interns are subject to change. Additions or changes of host organizations will be posted on the HIGO program web site.

【Keywords】

Internship, company, health, health care, medical treatment, therapy, drug development, drug improvement, corporate social responsibility, internationalization, local economy, public relations, corporate compliance

【Class Style】 Students will intern at a selected company. The internship will be followed by student presentations and discussions in order to give the participants a better understanding of what they have learned.

【Textbooks】 None specified, but handouts outlining the internship program will be distributed.

【Recommended Readings】 None specified

【Evaluation for Grades and Credits】 Students are required to submit a report via e-portfolio or as a hard copy. Students' level of understanding in the areas specified in the course objectives will be evaluated on the basis of questions and answers during the internship, active participation in presentations and discussions, as well as their reports submitted after the internship.

【Office Hours】 Students who wish to speak with an instructor during or after their internship may contact any of the faculty members listed above either via phone or e-mail.

【Before Classes】 Students are encouraged to seek out information on the companies they will be interning with via the Internet, etc. prior to beginning their internship.

【After Classes】 Students are encouraged to carefully review their notes and handouts from their internship. Students who wish to speak with faculty members may see them during their office hours. Students should also review related e-learning programs when available.

【Lecture Schedule】 Students will participate in an internship during their first four years. Classes do not meet at regularly scheduled dates and times. The schedule will be posted on the HIGO Program web site once it is finalized. Students are urged to check the schedule frequently.

HIGO Program (Four-year Course)

HIGO Overseas Internship

(Elective: 1 credit)

Subject Code

Course Director: Hirofumi Kai (Molecular Medicine TEL: 371-4405) hirokai@gpo.kumamoto-u.ac.jp

Instructors : The HIGO program faculty

【Objectives】

Those aiming to pioneer the frontiers of "health life science" will need an extensive array of knowledge at their fingertips. It's a wide field spanning the pharmaceutical, medical, and life sciences and anyone trying to blaze a path to a healthy society will need to work with partners across the region and around the world. That's why it's so vital that students learn to view the Kyushu region from a global perspective so they can see the needs and problems of the local and global (glocal) community. This course will provide students with an opportunity to participate in an international internship or training program at either one of Kumamoto University's overseas offices, an international administrative organization, company, university or other organization located abroad. The course aims to give students the tools to identify and solve problems on a glocal level as well as the communication and negotiation skills that will give them a leg up in the international arena.

【Content Description】

Students will participate in a 30-hour (five-day) internship at one of the following organizations.

- ? Overseas offices of Kumamoto University
Shanghai Office, Dalian Office, Korea KAIST Office, or Indonesia ITS Office
- ? Educational institutions, companies and research organizations affiliated with Kumamoto University
University of Georgia, St. John's University, University of Rochester, University of Texas (USA); Trinity College Dublin (Ireland); University of London (UK); Academia Sinica (Taiwan); Monash University (Australia); Ligand Pharmaceuticals, Inc. (USA); etc.
- ? International administrative organizations
United Nations, World Health Organization, etc.

Training will be conducted in English and interpreted into Japanese if given in Japanese.

【Keywords】

Internship, government, company, health care, medical treatment, therapy, drug development, drug improvement, environment, community service, internationalization, local economy, public relations, global view, identifying and solving problems, communication skills, negotiation skills

【Class Style】 Students will intern at one of the organizations listed above. The internship will be followed by student presentations and discussions in order to give the participants a better understanding of what they have learned.

【Textbooks】 None specified, but handouts outlining the internship program will be distributed.

【Recommended Readings】 None specified

【Evaluation for Grades and Credits】 Students are required to submit a report via e-portfolio or as a hard copy. Students' level of understanding in the areas specified in the course objectives will be evaluated on the basis of questions and answers during the internship, active participation in presentations and discussions, as well as their reports submitted after the internship.

【Office Hours】 Students who wish to speak with an instructor during or after their internship may contact any of the faculty members listed above either via phone or e-mail.

【Before Classes】 Students are encouraged to seek out information on the organizations they will be interning with via the Internet, etc. prior to beginning their internship.

【After Classes】 Students are encouraged to carefully review their notes and handouts from their internship. Students who wish to speak with faculty members may see them during their office hours. Students should also review related e-learning programs when available.

【Lecture Schedule】 Students will participate in an internship during their first four years. Classes do not meet at regularly scheduled dates and times. The schedule will be posted on the HIGO Program web site once it is finalized. Students are urged to check the schedule frequently.

HIGO Program (Four-year Course) , HIGO Program (Advanced Course)

HIGO Research presentation

(Elective: 1 credit)

Subject Code

Subject Chief: Minetaro Ogawa (Cell Differentiation TEL:373-6591) ogawamin@kumamoto-u.ac.jp

Instructors: Faculty members of the HIGO program

【Objectives】

During the process of conducting research on health life science, it is necessary to present research findings and discuss with other scientists at domestic and international conferences. This practice aims at expanding capability to make a productive discussion on a subject presented by other researchers and to present and discuss own findings in an effective manner at an academic conference.

【Content Description】

Topics of the practice may encompass full range of issues that are related to health life science .

【Class Style】

Students attend domestic or international conferences relating to health life science. In addition to discuss on the subjects presented by other researchers, students will present findings obtained from their own research in poster or oral sessions. The instructors listed above appropriately support discussions and preparations of presentation. Students finally write a report that includes the state of achievement of the activities at the conferences. The reports should include summary of the presentations by others together with discussion that the student made on them, and also the summary of the student's own presentation together with discussion made on it. Although form and quantity are not specified, the achievement level of ability for presentation and discussion will be evaluated based on the reports.

【Authorization of conferences】

Intended conferences must be authorized by the HIGO Program. Both domestic and international conferences are included. To receive authorization for a conference, students must submit documents describing the period, venue and outline of the program of the conference, and documents describing students' own presentation including a detailed program with the title and abstract, to Subject Chief.

【Keywords】 Health life science

【Textbooks】 Not specified.

【Recommended Readings】 Not specified.

【Office Hour】

If you have any questions on the classes, please contact the instructors listed above.

【Evaluation for Grades and Credits】 Students are obligated to attend and make a presentation in domestic or international conferences relating to health life science. Length of the activities at the conferences should be 2 days or more in sum total. Students should present their own research findings at least once in any of the conferences they attend. Grading will be based on the final report.

HIGO Program (Four-year Course), HIGO Program (Advanced Course)

HIGO Public Policy I

"Design Thinking"

(Elective: 2 credits)

Subject Code

Course Director: Shinya Ueno (Public Policy, TEL: 342-2038) ueno@gpo.kumamoto-u.ac.jp

【Objectives】

This seminar series focuses on theories and practical examples that will enable students to exercise good governance and make critical decisions in government or other organizational settings. Students can take what they have learned and apply it in designing policies and operating systems that will benefit society. Students will also take a comparative look at the political and administrative systems of various developed countries with an eye to envisioning a "good society" and how government can work to realize that vision. It is hoped that students will harness their medical and pharmacological expertise as well as their general social knowledge and skills in rising to meet the challenge of creating a better tomorrow as they take their place in national or local government, international organizations, NPOs, or the business world.

【Content Description】

Public policy as an academic discipline aims to help the learner design the blueprints for a "good" democratic society that will meet the needs of the time and the community. Students will discover how policymaking and the use of governmental authority can achieve that ideal vision. In this seminar, students will study the theories and principles relevant to public policy, policymaking techniques, and the philosophy behind them. They will approach the subject in light of the knowledge and experience gained in the humanities and social sciences, including political science, public administration, economics, sociology, and social psychology. This course is essential for professionals specializing in medicine and pharmacology who wish to serve the public and light the way to a brighter tomorrow.

Public Policy I (Design Thinking): During the first ten sessions the class will be divided into workshop groups to foster "design thinking," a widely hailed creative approach to solving social issues. Sessions eleven to fifteen will include forums, workshops, and research meetings hosted by the Center for Policy Studies or the Kumamoto Urban Strategy Council. Through exchanging their views and ideas, students will gain hands-on experience in policy formation they can use in the real world.

【Keywords】 Governance, policymaking, public management, politics, power, state, local autonomy, decentralization of power, NPM, welfare state regime, trust, design thinking

【Class Style】 Students are divided into workshop groups during the first 10 sessions. During the eleventh to fifteenth sessions, students participate in forums and research meetings on public policies.

【Textbooks】 No textbook has been specified but handouts summarizing the lecture will be distributed.

【Recommended Readings】

- d.school, Hasso Plattner, Institute of Design at Stanford University, "Bootcamp bootleg". (<http://dschool.stanford.edu/wp-content/uploads/2011/03/BootcampBootleg2010v2SLIM.pdf>)
- Hasso Plattner, Christoph Meinel, Larry Leifer eds., "Design Thinking Research" Springer, 2012.
- Tom Kelly, Jonathan Litterman, *The Art of Innovation: Lessons in Creativities from IDEO, American Leading Design Firm*, Crown Business, 2001.
- Tom Kelly, Jonathan Litterman, *The Ten Faces of Innovation: IDEO's Strategies for Beating the Devil's Advocate & Driving Creativity throughout Your Organization*, Currency/Doubleday, 2005.
- Tim Brown, *Change by Design, How design Thinking Transforms Organizations and Inspires Innovation*, HarperBusiness, 2009.

【Office Hours】 Students who have questions about the lectures, etc. may contact the instructors listed above by phone or e-mail, or visit their offices.

【Evaluation for Grades and Credits】 Grading will be based on the student's understanding of the subject matter covered. Their level of understanding will be evaluated on the basis of their participation in class discussions and reports submitted after each class.

【Before Classes】 Read the syllabus and the recommended readings.			
【After Classes】 Review handouts distributed and notes taken during classes. Students may speak with faculty members during their office hours. Students should also review related e-learning programs when available.			
【Lecture Schedule】			
Session	Date & time	Instructor	Topic
1 – 10		Shinya Ueno	Design Thinking for Social Innovation (Workshop)
11 – 15		Shinya Ueno	Forums and Policy Research Meetings on Public Policies

HIGO Program (Four-year Course), HIGO Program (Advanced Course)

HIGO Public Policy II "Analysis of Public Policies" (Elective: 2 credits) Subject Code

Course Director: Shinya Ueno (Public Policy TEL: 342-2038) ueno@gpo.kumamoto-u.ac.jp
Instructors : Yoko Kawamura (Health Policy TEL: 342-2041) kawamura@kumamoto-u.ac.jp
Arvind Singhal (Communication; Center for Policy Studies, Visiting Professor from the University of Texas at El Paso)

【Objectives】

This seminar series focuses on theories and practical examples that will enable students to exercise good governance and make critical decisions in government or other organizational settings. Students can take what they have learned and apply it in designing policies and operating systems that will benefit society. Students will also take a comparative look at the political and administrative systems of various developed countries with an eye to envisioning an "good society" and how government can work to realize that vision. It is hoped that students will harness their medical and pharmacological expertise as well as their general social knowledge and skills in rising to meet the challenge of creating a better tomorrow as they take their place in national or local government, international organizations, NPOs, or the business world.

【Content Description】

Public policy as an academic discipline aims to help the learner design the blueprints for a "good" democratic society that will meet the needs of the time and the community. Students will discover how policymaking and the use of governmental authority can achieve that ideal vision. In this seminar, students will study the theories and principles relevant to public policy, policymaking techniques, and the philosophy behind them. They will approach the subject in light of the knowledge and experience gained in the humanities and social sciences, including political science, public administration, economics, sociology, and social psychology. This course is essential for professionals specializing in medicine and pharmacology who wish to serve the public and light the way to a brighter tomorrow.

Public Policy II (Analysis of Public Policies): The strongest academic foundation for public policy rests on a thorough analysis of public policy. Sessions one through six will focus on solving social problems; the history of public policy studies; agenda-setting theory; structural policy issues; the means for carrying out public policies; normative decisions; optimal policymaking; policymaking systems; public policy ideas, implementation, evaluation, management systems and benefits. Sessions seven to eleven will cover the basics of public communication in light of health policy and health education so students can learn the theory and practice of promoting healthier behavior. Sessions twelve and thirteen will look at examples from the field of communications that can be used to solve social problems as well as the application of other theories, such as positive deviance. During sessions fourteen and fifteen students will engage in problem-solving exercises "Crossroads Game" that explore what courses of action to take when faced with severe crises like a natural disaster or epidemic.

【Keywords】 Governance, policymaking, public management, politics, power, state, local autonomy, decentralization of power, NPM, welfare state regime, trust, design thinking, entertainment education, positive deviation

【Class Style】 The classes will include question-and-answer driven discussions featuring PowerPoint and overhead projector presentations.

【Textbooks】 No textbook has been specified but handouts summarizing the lecture will be distributed.

【Recommended Readings】

- William N. Dune, *Public Policy Analysis*, Pearson, 2012.
- Takao Akiyoshi, Shuichiro Ito, and Shunya Kitayama, *Kokyo seisaku gaku no kiso (Introduction to public policy studies)*, Yuhikaku Publishing, 2010
- Arvind Singhal, Everett M. Rogers, *Entertainment Education: A Communication Strategy for Social Change*, trans. Yoko Kawamura, Seibundo, 2011

【Office Hours】 Students who have questions about the lectures, etc. may contact the instructors listed above by phone or e-mail, or visit their offices.

【Evaluation for Grades and Credits】 Grading will be based on the student's understanding of the subject matter covered. Their level of understanding will be evaluated on the basis of their participation in class discussions and reports submitted after each class.

【Before Classes】 Read the syllabus and the recommended readings.

【After Classes】 Review handouts distributed and notes taken during classes. Students may speak with faculty members during their office hours. Students should also review related e-learning programs when available.

【Lecture Schedule】

Session	Date & time	Instructor	Topic
1 – 6		Shinya Ueno	Introduction to Public Policy Studies (classroom lecture)
7 – 11		Yoko Kawamura	Health Policy and Public Communication (classroom lecture)
12 – 13		Arvind Singhal	Tapping the Power of Positive Deviance to Solve Problems (classroom lecture)
14 – 15		Shinya Ueno	Crossroads Game (A crisis management game that teaches students how to deal with natural disasters and outbreaks of infectious diseases) (Workshop)

HIGO Program (Four-year Course), HIGO Program (Advanced Course)

HIGO Public Policy III

"Comparative Politics and Public Administration"

(Elective: 2 credits)

Subject Code

Course Director: Shinya Ueno (Public Policy TEL: 342-2038 ueno@gpo.kumamoto-u.ac.jp)

Instructors : Liu Chunrong (Political Science; Center for Policy Studies;
Visiting Associate Professor from the School of International Relations and
Public Affairs, Fudan University in China) crliu@fudan.edu.cn

【Objectives】

This seminar series focuses on theories and practical examples that will enable students to exercise good governance and make critical decisions in government or other organizational settings. Students can take what they have learned and apply it in designing policies and operating systems that will benefit society. Students will also take a comparative look at the political and administrative systems of various developed countries with an eye to envisioning an "good society" and how government can work to realize that vision. It is hoped that students will harness their medical and pharmacological expertise as well as their general social knowledge and skills in rising to meet the challenge of creating a better tomorrow as they take their place in national or local government, international organizations, NPOs, or the business world.

【Content Description】

Public policy as an academic discipline aims to help the learner design the blueprints for a "good" democratic society that will meet the needs of the time and the community. Students will discover how policymaking and the use of governmental authority can achieve that ideal vision. In this seminar, students will study the theories and principles relevant to public policy, policymaking techniques, and the philosophy behind them. They will approach the subject in light of the knowledge and experience gained in the humanities and social sciences, including political science, public administration, economics, sociology, and social psychology. This course is essential for professionals specializing in medicine and pharmacology who wish to serve the public and light the way to a brighter tomorrow.

Public Policy III (Comparative Politics and Public Administration): Sessions take a comparative look at political and public administration systems across the globe. Students will learn in detail about politics and public administration in the United Kingdom, the United States, France, Germany, Switzerland, Sweden, Thailand, Singapore, China, and Japan.

【Keywords】 Governance, policymaking, public management, politics, power, state, local autonomy, decentralization of power, NPM, welfare state regime, trust

【Class Style】 The classes will include question-and-answer driven discussions featuring PowerPoint and overhead projector presentations.

【Textbooks】 No textbook has been specified but handouts summarizing the lecture will be distributed.

【Recommended Readings】

- Hiroshi Toki, Hiroaki Kato, *Hikaku gyosei seido ron (Theory of Comparative Public Administrative Systems)*, 2nd edition, Houritsu Bunkasha, 2005
- Central Intelligence Agency, *The World Fact Book*, (<https://www.cia.gov/library/publications/the-world-factbook/geos/ch.html>)

【Office Hours】 Students who have questions about the lectures, etc. may contact the instructors listed above by phone or e-mail, or visit their offices.

【Evaluation for Grades and Credits】 Grading will be based on the student's understanding of the subject matter covered. Their level of understanding will be evaluated on the basis of their participation in class discussions and reports submitted after each class.

【Before Classes】 Read the syllabus and the recommended readings.

【After Classes】 Review handouts distributed and notes taken during classes. Students may speak with faculty members during their office hours. Students should also review related e-learning programs when available.

【Lecture Schedule】

Session	Date & time	Instructor	Topic
1 – 13		Shinya Ueno	Comparative Politics and Public Administration (Japan, UK, USA, France, Germany, Switland, Sweden, Tailand, Shingapore) (classroom lecture)
14 – 15		Liu Chunrong	Politics and Civil Society in China (classroom lecture)

HIGO Program (Four-year Course) , HIGO Program (Advanced Course)

HIGO Technology and Organizational Management I

"Technology and Organizational Management"

(Elective: 2 credits)

Subject Code

Course Director: Fumiaki Yasukawa (Applied Economics TEL: 342-2370) fyasu@kumamoto-u.ac.jp

Instructors: Fumiaki Yasukawa

Masao Tao (Professor, Aichi-Gakuin University)

Gregg Mayer (President, Gregg Mayer and Co. El Cerrito, CA USA)

【Objectives】

This lecture aims to understand the fundamental characters and structures of the for-profit, non-profit firms and to be familiar with cutting-edge innovation in technology for the society. The lecture is included 3 topics related to the technology and organization argument; *management of enterprise (or for-profit firms)*, *economic status of non-profit organizations*, and *technology management and innovation*. Each of three topics will provide you some basic principles in association with the behavior of the firm, and the insightful understanding of technology management as a tactics of translating and exchanging the utilization of advanced health related technologies and ideas among Asian countries.

【Content Description】

1. Management of Enterprises

This lecture deals with the basic theories of the (for-profit) firm which include 1) organizational properties of the firm, 2) economic status of the for-profit firm, and 3) the governance and the management of the firm.

2. Economics of Non-profit Organization

Lecture introduces the characteristics and the social role of the non-profit organizations. We look at, particularly, those of hospital, school, and clubs. In addition, we argue various economic perspectives of such non-profit organizations in association with the differences from the for-profit firms and government.

3. Technology Management and Innovation

This lecture includes theoretical and practical aspects of technology management. Further, we discuss about the process of the management of innovation, in which originating innovative objects or ideas, doing trials and errors and launching new objects to the market, as well as the tactics of fund raising. You will meet a significant specialist from US universities in order to learn the case studies in association with the management of innovation process and entrepreneurship.

【Keywords】 for-profit firm, non-profit organization, technology management, innovation, entrepreneurship

【Class Style】 PowerPoint and/or OHP will be used in the lectures, and active participation in the discussion is encouraged. Extra classes or video lectures are considered for those who are regularly absent for unavoidable reasons.

【Textbooks】 Textbooks are not specified, and handouts will be distributed.

【Recommended Readings】 Not specified.

【Office Hour】 If you have any questions on topics or schedule of the classes, please contact each instructors listed above.

【Evaluation for Grades and Credits】 Grading will be based on paper summaries and final report.

【Before classes】 Read wide range of literature surely.

【After classes】 Prepare for the submission of the report and the summary of the experimental result.

【Lecture Schedule】 Please also refer to the timetable shown in the Section

Session	Date & time	Instructors	Topics
1.	undecided	Fumiaki Yasukawa	Introduction and orientation of the course
2.	undecided	Fumiaki Yasukawa	Organizational properties of the firm
3.	undecided	Fumiaki Yasukawa	Theories of for-profit enterprises
4.	undecided	Fumiaki Yasukawa	Governance of for-profit firm
5.	undecided	Fumiaki Yasukawa	Theories of non-profit organizations
6.	undecided	Fumiaki Yasukawa	Economic aspects of non-profit entities
7.	undecided	Masao Tao	Governance of non-profit organizations(1)
8.	undecided	Masao Tao	Governance of non-profit organizations(2)
9.	undecided	Fumiaki Yasukawa	Basic attributes of Technology Management
10.	undecided	Fumiaki Yasukawa	Innovation and innovative productivity
11.	undecided	Gregg Mayer	How to foster your innovative idea?
12.	undecided	Gregg Mayer	How to foster your innovative idea to real?
13.	undecided	Gregg Mayer	Case of innovation management in health care(1)
14.	undecided	Gregg Mayer	Case of innovation management in health care(2)
15.	undecided	Fumiaki Yasukawa	The road to the innovative management
16.	undecided	Fumiaki Yasukawa	Review and deliberation

HIGO Program (Four-year Course) , HIGO Program (Advanced Course)

HIGO Technology and Organizational Management II

"Decision Making and Conflict Management"

(Elective: 2 credits)

Subject Code

Course Director: Fumiaki Yasukawa (Applied Economics TEL: 342-2370) fyasu@kumamoto-u.ac.jp

Instructors: Fumiaki Yasukawa

Akiko Ishihara (Associate Professor, Graduate School of Social and Cultural Sciences)

Maki Fukami (President, International Institute of Global Resilience (IIGR),
Washington D.C. USA)

Tetsushi Okumura (Professor, Faculty of Economics, Nagoya City University)

【Objectives】

Not only in healthcare, but also in many other business environments you should be required *appropriate and immediate decision making*. The reason why should do so rely on some clinical and social responsibilities you would face and take. Further, when, as a profession in health care team, you encounter such situation that accomplishing appropriate team performance in order to induce the excellent medical outcomes through the team, you should be expected to have a good competence of *resource management and conflict avoidance*.

This course highlights to such arguments that; what is an appropriate decision making? On what discipline the rational decision making or reasoning would be based? For what situations game-like approach would be applicable? And how and when we could use the resource management and conflict management technique?

Course director will introduce the importance and utilization of arguments above, then, set a pathway for capturing substantial idea of how to decide, manage and resolve any conflict conditions by means of extra-ordinate lectures through locally and globally nominated speakers in terms of resource management, conflict resolution and negotiation.

【Content Description】

1. Basic Concept of Decision Making

This lecture provides you the basic concept of decision making and team reasoning under any uncertain and risky circumstances. So, uncertainty and risk would also be addressed to be premises for the discussion.

2. Rationality and Bounded Rationality in Decision Making

In this lecture we discuss a couple of essential ideas; rationality and bounded rationality. Since these two ideas are usually dealt with as a psychological factor by which the human behavior would be regulated, socio-economic perspective for understanding human behavior should be taken account in parallel.

3. Game and Strategy in the Process of Decision Making and conflict management

Recent managerial and behavioral sciences have become to adopt the idea of game theory. Game theoretic way of thinking is great helpful for us to inferior our mutual decision making background and beyond. This lecture will provide you a rudimentary inspiration of game theoretic thought and its application for the issue of conflict management

4. Crisis Resource Management, Negotiation and Peace Building

Finally we provide very applicable relevant topics for the decision making issue; Crisis resource management, negotiation and peace building. First of three is one of the most practical application of the decision, in which a competent leader would decide what kind of resources may be required under the facing situation. On the contrary, the rest are the process issue of reaching rational and cohabitant goal in some disputable conditions.

【Keywords】 decision making, rationality, bounded rationality, game, process and strategy, crisis resources management, negotiation, peace building

【Class Style】 PowerPoint and/or OHP will be used in the lectures, and active participation in the discussion is encouraged. Extra classes or video lectures are considered for those who are regularly absent for unavoidable reasons.

【Textbooks】 Textbooks are not specified, and handouts will be distributed.

【Recommended Readings】 Not specified.

【Office Hour】 If you have any questions on topics or schedule of the classes, please contact each instructors listed above.

【Evaluation for Grades and Credits】 Grading will be based on paper summaries and final report.

【Before classes】 Read wide range of literature surely.

【After classes】 Prepare for the submission of the report and the summary of the experimental result.

【Lecture Schedule】 Please also refer to the timetable shown in the Section

Session	Date & time	Instructors	Topics
1.	undecided	Fumiaki Yasukawa	Introduction and orientation of the course
2.	undecided	Fumiaki Yasukawa	Basic concept of decision making
3.	undecided	Fumiaki Yasukawa	Uncertainty and risk(1)
4.	undecided	Fumiaki Yasukawa	Uncertainty and risk(2)
5.	undecided	Fumiaki Yasukawa	Decision making under uncertainty
6.	undecided	Fumiaki Yasukawa	Decision making under the risk
7.	undecided	Fumiaki Yasukawa	Rationality and game theory(1)
8.	undecided	Fumiaki Yasukawa	Rationality and game theory(2)
9.	undecided	Maki Fukami	Crisis resource management in IIGR&FEMA(1)
10.	undecided	Maki Fukami	Crisis resource management in
IIGR&FEMA(2)			
11.	undecided	Tetsushi Okumura	Negotiation(1)
12.	undecided	Tetsushi Okumura	Negotiation(2)
13.	undecided	Akiko Ishihara	Case study on the conflict management (1)
14.	undecided	Akiko Ishihara	Case study on the conflict management (2)
15.	undecided	Fumiaki Yasukawa	Wrapping up the decision making sciences
16.	undecided	Fumiaki Yasukawa	Review and deliberation

HIGO Program (Four-year Course) , HIGO Program (Advanced Course)

HIGO Technology and Organizational Management III

"Health Economics and Policy"

(Elective: 2 credits)

Subject Code

Course Director: Fumiaki Yasukawa (Applied Economics TEL: 342-2370) fyasu@kumamoto-u.ac.jp

Instructors: Fumiaki Yasukawa

Ken Kikuchi (Associate Professor, Kumamoto University Hospital)

Yoko Kawamura (Associate Professor, Center for Policy Studies, Kumamoto University)

Shigeki Tsuzuku (Professor, Center for Policy Studies, Kumamoto University)

Junko Ayuzawa (Associate Professor, Graduate School of Healthcare Management, Kyushu University)

JiWei Qian (Senior Researcher, East Asian Institute, Singapore)

【Objectives】

In the progress of ageing society, many countries are struggling to optimize the balance of healthcare costs and benefits among the nations. For example, how to achieve the healthcare resources allocation with satisfying *economic effectiveness* and *social fairness* consistently through the nations is the most controversial argument in Japan.

This lecture will be set out to provide the minimum technical skills for solving such puzzle with the maximum inspirations from real aspects of application. The course provide the general figure of health economics theories in terms of *information asymmetry*, *moral hazard*, *consumer preferences*, *effectiveness and fairness on resource allocation*, etc. *Hospital management* and *health promotions* are also the important issue to understand holistic attributes of modern health care. Another controversial aspect, *safety and quality of care*, would also be addressed through the case of *risk management activity*. Further, *international comparison of health policy reforming* not only in western countries, but also in Asian ones, particularly in China, would be regarded through the empirical research outcomes.

【Content Description】

1. Basic Principles of Health Economics

This lecture provides the fundamental knowledge for handling subjects in association with asymmetric information, optimality on resource allocation, market mechanism, etc. Some economic behaviors observable both in patients' (demand) side and providers' (supply) side should be considered as the *micro* level health topics, while the cost-benefit relationship of national health policy including social health insurance schema and the setting of standard of care would be regarded as of *macro* level arguments.

2. Quality of Care and Risk Management in Health Care

Quality of care and patient safety is the most important argument in modern healthcare. Managing quality of care as well as controlling risk in treatment is the good example of understanding the relationship between health and management. High-end speaker in this field would be invited as a special lecturer.

3. Health Promotion and Community Aspects of healthcare

Harvesting effective benefits of well-designed healthcare policy for the nations should ought to be developing healthier individuals in the nations. Health promotion issue is, therefore, closely related to the improvement of primary care outcomes in community. Some practical, evidence-based examples would be introduced from the finest scholars in this field.

4. International Comparison of Health Policy Reform; Asian Perspective

Final attention of this course in association with the healthcare policy and economics will be paid onto the international comparison between Japan and other Asian countries; particularly looking at Chinese perspective. Understanding what have been going in China will be very helpful for us to infer what might be happen in the near future in other Asian countries. The outstanding lecturer from Singapore will describe the latest topics related to this.

【Keywords】 health economics, asymmetric information, optimal resource allocation, health insurance, health care expenditures, market mechanism, quality of care, healthcare reform

【Class Style】PowerPoint and/or OHP will be used in the lectures, and active participation in the discussion is encouraged. Extra classes or video lectures are considered for those who are regularly absent for unavoidable reasons.

【Textbooks】 Textbooks are not specified, and handouts will be distributed.

【Recommended Readings】 Not specified.

【Office Hour】 If you have any questions on topics or schedule of the classes, please contact each instructors listed above.

【Evaluation for Grades and Credits】 Grading will be based on paper summaries and final report.

【Before classes】 Read wide range of literature surely.

【After classes】 Prepare for the submission of the report and the summary of the experimental result.

【Lecture Schedule】 Please also refer to the timetable shown in the Section

Session	Date & time	Instructors	Topics
1.	undecided	Fumiaki Yasukawa	Introduction and orientation of the course
2.	undecided	Fumiaki Yasukawa	Basic principles of health economics
3.	undecided	Fumiaki Yasukawa	Demand side behaviors in healthcare
4.	undecided	Fumiaki Yasukawa	Supply side behaviors in healthcare
5.	undecided	Fumiaki Yasukawa	Health resource allocation in health care(1)
6.	undecided	Fumiaki Yasukawa	Health resource allocation in health care(2)
7.	undecided	Ken Kikuchi	Hospital management in Japan –case
study(1)			
8.	undecided	Ken Kikuchi	Hospital management in Japan –case study(2)
9.	undecided	Yoko Kawamura/	Health promotion and its outcome(1)
10.	undecided	Shigeki Tsuzuku	Health promotion and its outcome(2)
11.	undecided	Junko Ayusawa	Quality and risk management in healthcare(1)
12.	undecided	Junko Ayusawa	Quality and risk management in healthcare(2)
13.	undecided	JiWei Qian	International perspective of health policy reform(1)
14.	undecided	JiWei Qian	International perspective of health policy reform(2)
15.	undecided	Fumiaki Yasukawa	Wrapping up the health economics and policy
16.	undecided	Fumiaki Yasukawa	Review and deliberation

HIGO Program (Four-year Course) , HIGO Program (Advanced Course)

HIGO Cross-cultural Communication I

"Bioethics"

(Elective: 2 credits)

Subject Code

Course Director: Takao Takahashi (Graduate School of Social and Cultural Sciences, Ethics, TEL: 342-2405)
ttaka@kumamoto-u.ac.jp

Instructors: Takao Takahashi (Graduate School of Social and Cultural Sciences) ttaka@kumamoto-u.ac.jp
Atsushi Asai (Graduate School of Medical Sciences) aasai@kumamoto-u.ac.jp
O.K.Lai (School of Policy Studies, Kwansei Gakuin Univ.) oklai@kwansei.ac.jp
K.J.Yoo (Chung-Ang Univ. Korea) ykjlll@cau.ac.jp
J.Azariah (Founder President, All India Bioethics Association, India) hildaazariah@yahoo.com
N.Ghotbi (Ritsumeikan Asia Pacific Univ.) nader@apu.ac.jp
U.Chutatip (Thammasat Univ. Thailand) chutauma2@yahoo.com

【Objectives】

This course helps you understand the basic concepts and the history of bioethics, and understand one aspect of the problem of cross-cultural communication by grasping the various forms of bioethics in Asian countries including Japan. Also this course helps you grasp the present situation of health care system in Asian countries.

【Content Description】

In this course, you learn the history and the present situation of bioethics in Japan and in Asian countries, such as China, Korea, India, Iran, and Thailand. Also you learn bioethics from various viewpoints by participating in an international seminar on bioethics.

【Keywords】 bioethics, principles of bioethics, practices of bioethics, cultural diversity

【Class Style】 PowerPoint will be used in the lectures, and active participation in the discussion is encouraged. Also participation to an international seminar is included.

【Textbooks】 Textbooks are not specified, and handouts will be distributed if necessary.

【Recommended Readings】

- *Principles of Biomedical Ethics* by T.L.Beauchamp, J.F. Childress, Oxford University Press, 4th ed. 1994.
- *Taking Life and Death Seriously: Bioethics from Japan*, T.Takahashi (ed.), Elsevier, 2005.

【Office Hour】 If you have any questions on topics or schedule of the classes, please contact the instructors listed above.

【Evaluation for Grades and Credits】 Grading will be based on paper summaries and the final report.

【Before classes】 Read wide range of literature surely.

【After classes】 Reconsider the content of the lecture thoroughly.

【Lecture Schedule】

Session	Date & time	Instructors	Topics
1-6	undecided	T.Takahashi, A.Asai	The concept of bioethics (Its history and principles) Bioethics in Japan(Informed consent, disclosure of a diagnosis, authority of family in decision making etc.)
7	undecided	O.K.Lai	Bioethics in China
8	undecided	K.J.Yoo	Bioethics in Korea
9	undecided	J.Azariah	Bioethics in India
10	undecided	N.Ghotbi	Bioethics in Iran
11	undecided	U.Chutatip	Bioethics in Thailand
12-15	undecided	Participation to an International Seminar of Bioethics (UNESCO-Kumamoto University Bioethics Roundtable)	

HIGO Program (Four-year Course) , HIGO Program (Advanced Course)**HIGO Cross-cultural Communication II****"Culture and Religion in Asia"****(Elective: 2 credits)****Subject Code XXXXXXXXX**

Course Director: Takao Takahashi (Graduate School of Social and Cultural Sciences, Ethics, TEL: 342-2405)
 ttaka@kumamoto-u.ac.jp

Instructors:	Takao Takahashi (Graduate School of Social and Cultural Sciences)	ttaka@kumamoto-u.ac.jp
	Tobias Bauer (Faculty of Letters)	bauer@kumamoto-u.ac.jp
	Yu Takeuchi (Faculty of Letters)	takeuchi@gpo.kumamoto-u.ac.jp
	O.K.Lai (School of Policy Studies, Kwansei Gakuin Univ.)	oklai@kwansei.ac.jp
	K.J.Yoo (Chung-Ang Univ. Korea)	ykjlll@cau.ac.jp
	S.Panneelselvam (University of Madras, India)	sps@md4.vsnl.net.in
	U.Chutatip (Thammasat Univ. Thailand)	chutauma2@yahoo.com
	K.Khroutski (Novgorod State University, Russia)	knstntnkh@gmail.com
	N.Ghotbi (Ritsumeikan Asia Pacific Univ.)	nader@apu.ac.jp
	A.W.Suri (University of Karachi, Pakistan)	wahabsuri@gmail.com
	A.S.M.Bhuiyan (Jahangirnagar University, Bangladesh)	bhuiyan_phil@yahoo.com

【Objectives】

This course helps you understand various forms of cultures and religions in Asian countries including Japan.

【Content Description】

In this course, you learn the history and the present situation of culture and religions in Japan and in Asian countries, such as China, Korea, India, Russia, Iran, Pakistan and Bangladesh. Also you can learn Jewish and Christian culture and religion, comparison with which is useful to understand deeply cultures and religions in Asian countries.

【Keywords】 religious diversity cultural diversity

【Class Style】 PowerPoint will be used in the lectures, and active participation in the discussion is encouraged.

【Textbooks】 Textbooks are not specified, and handouts will be distributed if necessary.

【Recommended Readings】 Books and articles concerning culture and religion

【Office Hour】 If you have any questions on topics or schedule of the classes, please contact the instructors listed above.

【Evaluation for Grades and Credits】 Grading will be based on paper summaries and the final report.

【Before classes】 Read wide range of literature surely.

【After classes】 Reconsider the content of the lecture thoroughly.

【Lecture Schedule】

Session	Date & time	Instructors	Topics
1-5	undecided	T.Takahashi	Culture and religion in Japan (Shinto, Buddhism, Confucianism)
6	undecided	O.K.Lai	Culture and religion in China
7	undecided	K.J.Yoo	Culture and religion in Korea
8	undecided	S.Panneelse	Culture and religion in India
9	undecided	K.Khroutski	Culture and religion in Russia
10	undecided	D.F.Tsai	Culture and religion in Taiwan
11	undecided	N.Ghotbi	Culture and religion in Iran
12	undecided	A.Suri	Culture and religion in Pakistan
13	undecided	A.S.M.Bhuiyan	Culture and religion in Bangladesh
14	undecided	Y.Takeuchi	Culture and religion in Judaism
15	undecided	T.Bauer	Culture and religion in Christianity

HIGO Program (Four-year Course) , HIGO Program (Advanced Course)

HIGO Cross-cultural Communication III

"Symbiosis among Different Cultures"

(Elective: 2 credits)

Subject Code

Course Director: Takao Takahashi (Graduate School of Social and Cultural Sciences, Ethics, TEL: 342-2405)

ttaka@kumamoto-u.ac.jp

Instructors: Takao Takahashi (Graduate School of Social and Cultural Sciences) ttaka@kumamoto-u.ac.jp
Akiko Ishihara (Graduate School of Social and Cultural Sciences) aishihar@hotmail.com
Darryl Macer (UNESCO Bangkok) d.macer@unesco.org
Tomohiro Tanaka (Faculty of Letters) ttanaka@kumamoto-u.ac.jp
Shinjilt (Faculty of Letters) shinjilt@kumamoto-u.ac.jp
Mukhina Varvara (Graduate School of Social and Cultural Sciences) mukhina.varvara2010@hotmail.co.jp

【Objectives】

This course helps you understand the symbiosis between humans and nature, symbiosis among humans and symbiosis among different cultures.

【Content Description】

In this course, you learn the history and the present situation of environmental ethics including disaster ethics. Also you learn about symbiosis among different cultures from various standpoints, such as conflict resolution in the field of medicine, peace studies, business ethics, anthropology and comparative culture.

【Keywords】 environmental ethics, disaster, conflict resolution, peace, business ethics, anthropology, comparative culture

【Class Style】 PowerPoint will be used in the lectures, and active participation in the discussion is encouraged. Also participation to overseas training is included.

【Textbooks】 Textbooks are not specified, and handouts will be distributed if necessary.

【Recommended Readings】

- *Ethics of the Environment*, R.Attfield(ed.), Ashgate, 2008.
- *Bioethics Mediation: A Guide to Shaping Shared Solutions*, Revised and Expanded Edition, N.V.Dubler,C.B.Liebman, United Hospital Fund

【Office Hour】 If you have any questions on topics or schedule, please contact the instructors listed above.

【Evaluation for Grades and Credits】 Grading will be based on paper summaries and the final report.

【Before classes】 Read wide range of literature surely.

【After classes】 Reconsider the content of the lecture thoroughly.

【Lecture Schedule】

Session	Date & Time	Instructors	Topics
1-2	undecided	T.Takahashi	Environmental ethics (Symbiosis between humans and nature)
3	undecided	T.Takahashi	Disaster ethics (Ethics in the age of coexistence with disasters)
4-6	undecided	A.Ishihara	Conflict resolution in the field of medicine
7-9	undecided	D.Macer	Overseas training: Peace Studies (UNESCO Bangkok etc.)
10-11	undecided	T.Tanaka	Business ethics I, II
12-13	undecided	Shinjilt	Anthropology in the field of Asia
14-15	undecided	M.Varvara	Comparative cultural studies on marriage and family

HIGO Program (Four-year Course)

HIGO Cutting-Edge Seminar Series

(compulsory: 2 credits)

Subject Code

Course Director: Ryuichi Nishinakamura (Kidney Development TEL: 373-6615) ryuichi@kumamoto-u.ac.jp

Instructors: Faculty members of the HIGO program

【Objectives】

Health Life Science is an interdisciplinary science that is rapidly evolving as a new field of life science. This practice consists of lectures from researchers who work on health life science in Japan and overseas. Researchers committed to cutting-edge research will be invited and present latest developments of their own. Students are encouraged to attend the seminars to acquire up-to-date knowledge of the fields that may not be covered in the lectures.

【Content Description】

Topics of the seminars may encompass full range of issues that are related to health life science, which covers all areas of medical and pharmaceutical medicine.

【Keywords】 Health life science

【Class Style】

Students attend the seminars that are authorized by the course and write reports. The reports should include summary of the lectures and his/her own discussion about the topics. In principle, one-hour seminar is suitable for one report.

【Textbooks】

【Recommended Readings】

【Date, Time, and Place】 Basically seminars start at 12:00 on every Wednesday in the Conference room of the Institute of Molecular Embryology and Genetics (IMEG). Please see the detailed information on the web page (<http://higoprogram.org/>), since the schedules are subject to change.

【Evaluation for Grades and Credits】 Students are obligated to attend 15 or more lectures and submit at least 3 reports. The attendance can be extended to four years at maximum. Grading will be based on the reports.