Academic Year 2024

Kumamoto University Health Life Science S-HIGO Professional Fellowship Program (S-HIGO Professional Program)

Syllabus

Contact: Kumamoto University,

Headquarters for Admissions and Education, Graduate Program Education Promotion Division (Academic support Office (Graduate school support))

E-mail: higo-program@jimu.kumamoto-u.ac.jp

The class timetable

	Oe Campus	Honjyo Campus	Kurokami Campus
1st period	8:40 - 10:10	8:45 - 10:15	8:40-10:10
2nd period	10:20 - 11:50	10:30 - 12:00	10:25-11:55
3rd period	12:50 - 14:20	13:15 - 14:45	12:55-14:25
4th period	14:30 - 16:00	15:00 - 16:30	14:40-16:10
5th period	16:10 - 17:40	16:45 - 18:15	16:25-17:55
6th period	18:30 - 20:00	18:30 - 20:00	18:10-19:40

Contents

S-HIGO Professional Program

1. S-HIGO Professional Program Courses, Credits and How to Apply
S-HIGO Professional Program Courses · · · · · · · · · · · · · · · · · ·
Registration Application Form
Graduate School of Medical Sciences
General Doctoral Course · · · · · · · · · · · · · · · · · · ·
2 . Research Skill Enhancement Package
S-HIGO Practical Training · · · · · · · · · · · · · · · · · · ·
Liberal Arts Course for Graduate Students –
Research Frontiers and Knowledge Integration · · · · · · · · · · · · · · · · · · ·
S-HIGO Cutting-Edge Seminar Series A·····9
S-HIGO Cutting-Edge Seminar Series B · · · · · · · · · · · · · · · · · ·
3 . Career Support Package
S-HIGO Project · · · · · · · · · · · · · · · · · · ·
S-HIGO Internship I · · · · · · · · · · · · · · · · · ·
S-HIGO Internship II · · · · · · · · · · · · · · · · · ·
S-HIGO Leadership Training Course · · · · · · · · · · · · · · · · · · ·
S-HIGO Governmental and Business Seminar A········16
S-HIGO Governmental and Business Seminar B · · · · · · · · · · · · · · · · · 18

1. S-HIGO Professional Program Courses, Credits and How to Apply

S-HIGO Professional Program Courses, Credits and How to Apply

Research Skill Enhancement Package

Subjects	Cre	edits	How to take credits	Others		
Subjects	Compulsory Elective		How to take credits	Others		
S-HIGO Practical Training	1					
Liberal Arts Course for Graduate Students – Research Frontiers and Knowledge Integration		1	4credits or	common course		
S-HIGO Cutting-Edge Seminar Series A		1	more			
S-HIGO Cutting-Edge Seminar Series B		2				

Career Support Package

Subjects	Cre	edits	How to take credits	Others	
Subjects	Compulsory	Elective	How to take credits		
S-HIGO Internship I	1				
S-HIGO Project					
S-HIGO Leadership Training Course		1	5credits or		
S-HIGO Governmental and Business Seminar Series A		1	more	common course	
S-HIGO Governmental and Business Seminar Series B		2			
S-HIGO Internship II		1			

Graduate School of Medical Sciences (Doctoral Course) S-HIGO Professional Program Courses Registration Application Form (General course)

Dean The Graduate	e School of Medical Scienc	()year/month/day
Dean, The Gradian	s believe of Medical Belefic	Year entered:	
		Name:	
		Student number:	
		E-mail address:	
Here, I would like to	o register for the following	subjects.	
Department		Supervisor's — Signature	
Course	General course	Digitature	

For course request and Transferred request, Put 「O」 onto the blank column of your requested subjects.

	uest and Transferred request, I	1	dits			
Package	Subjects		Elec tive	Subject Director	Course request	Transferred request
Research Skill	S-HIGO Practical Training	1		SHUTO Tsuyoshi	0	
Enhancement Package	Liberal Arts Course for Graduate Students – Research Forefront and Knowledge Integration		1	UMEDA Kahoko		
【How to Apply】 4credits or	S-HIGO Cutting-Edge Research Seminar A		1	NISHINAKAMURA Ryuichi		
more	S-HIGO Cutting-Edge Research Seminar B		2	NISHINAKAMURA Ryuichi		
	S-HIGO Internship I	1		TAKEO Toru	0	
Career	S-HIGO Project	2		OGAWA Minetaro	0	
Support Package	S-HIGO Leadership Training Course		1	MORIOKA Hiroshi		
【How to Apply】 5credits or	S-HIGO Governmental and Business Seminar A		1	SARUWATARI Jiyunji		
more	S-HIGO Governmental and Business Seminar B		2	SARUWATARI Jiyunji		
	S-HIGO Internship II		1	TAKEO Toru		

2. Research Skill Enhancement Package

Course Coding(科 目ナンバー)	Year/Semester/Ter m(年度・学期)	Faculty Offering Course(時間割所属・時間割コード)	Eligible Student Year(開講年次)	Credits(単位 数)	Weekday and Period(曜 日・時限)				
RDM7-170-99-2	2024whole year	Graduate School of Medical Sciences (24720)	1, 2, 3, 4	1	others				
	Course Title(Th		Instructor(s)(担当教員)					
S-HIGO Practical Training(S-HIGO Practical Training) Shiyutou Tsuyoshi									
		Goals with their ratio(学修成果とそ	,						
1.Advanced expert knowledge, skill and research capability ····50% 2.Profound inter-disciplinary knowledge ····30% 3.Global perspective and ability to take initiative action ····10% 4.Social leadership drive ····10%									
Type of Class(授業の	•								
Teaching Method(授 法)	required to	aining (2 days per laboratories/departments) understand the principle of research/experi rize the results, and compile them in a repor	ment through lec	d each training tures, carry out	g item. Students are t experimentals, analyze				
Health life sciences is an interdisciplinary research field that brings together various disciplines in the medicine, pharmacy, and health sciences, and the experimental methods and techniques used in this also diverse. Learning these various experimental techniques is not only necessary to engage in resear health and life sciences, but understanding the technical background that supports the findings, even disciplines outside of one's field one's field that brings together various disciplines used in this also diverse. Learning these various experimental techniques is not only necessary to engage in resear health and life sciences but understanding the technical background that supports the findings, even disciplines outside of one's field one.									
Course Learning goa 目標)	Is(学修 experiment 【C level (C The studen	t will be able to understand, explain, and per al methods and techniques related to health :水準)】 t will be able to understand the principles ar	and life sciences						
Course Outline(授業(the fields of Some of the (Examples) Immunolog ES cell gene Muscle tisst FACS Intracellula Small anima PCR analysi Oxidative st Cardiovasci Insulin mea Scanning el Time-lapse Tissue stain Quantificati Operant lea Two-photor Lipofection Evaluation of Eva	Immunological analysis ES cell gene modification and expression Muscle tissue regeneration evaluation FACS Intracellular signaling response Small animal metabolic assays, animal CT PCR analysis and other methods Oxidative stress in cellular systems Cardiovascular disease models Insulin measurement Scanning electron microscopy Time-lapse microscopy Tissue staining methods Quantification of RNA and DNA Operant learning experiments, open field tests Two-photon excitation microscopy Lipofection, Western blot Evaluation of biological activity by pagestode worms							
N (5)		Details for Individual Classes(各回の	授業内容) T						
No.(回 Date(月	<u> </u>	Class Theme(授業テーマ) Brief Outline of Class(内容概略)							
1	The date and time of classes in each field and the content of the training will be notified separately. The date and time of classes in each field and the content of the training will be notified separately.								
Estimated out-of-c study time	pre- and po	consists of content that requires 45 hours o st-study (including assignments) is required	f study. Since the to deepen the un	class is for 30 derstanding of	hours, 15 hours worth of the class.				
Required Textbook($\mathcal{F}^{+}\mathcal{A}$) Not specified.									
Reading List(参考)	文献) Not specifie	ed.							
Enrollment Conditions(履修 Each student is required to participate in at least four practical training courses (at least one from each of the									

条件)	fields of medicine, health science, and pharmacy) and submit a report for each. Evaluation will be based on the discussion during the practical training, the level of understanding of the practical training items and the contents of the report. * Students who want to learn more about this training in depth, such as the experimental principles, methods, and techniques, should voluntarily consult with the person in charge of the desired laboratory regarding the extension of the training period.
Assessment Methods and Criteria(評価方法・基準)	Students need to submit a report on the content of the practical training and its relevance to your research. Evaluation will be based on the discussion during the practical training, the level of understanding of the practical training items and the contents of the report.
Language Used in Instruction(使用言語)	Japanese and English
Textbook/Material Language(教科書・資料の言語)	Combination of Japanese and English
Course Based on Practical Work Experience(実務経験 を活かした授業)	Not applicable

	Coding(科 ンバー)		emester/Ter 度・学期)	Faculty Offering Course(時間割所属・時間割コード)	Eligible Student Year(開講年次)		Credits(単位 数)	Weekday and Period(曜 日・時限)			
KGG5-	-001-99-2	2024	intensive	Advanced Arts and Science (15001)		1, 2, 3	1	others			
Course Title(Theme)(科目名(講義題目)) Instructor(s)(担当教員)											
	Research Frontiers and Knowledge Integration(Creating a Sustainable Future and Resilience - Challenging Issues with No Single Correct Answer to Build a Safe and Healthy Society for a Lifetime -) Saitou Yasushi, HOSONO Takahiro, TAKEUCHI Yukiko, NISHIKAWA Saori, OKADA Yukio, ONO Yusuke, Shiyutou Tsuyoshi, UMEDA Kahoko										
	Goals with their ratio(学修成果とその割合)										
1.Advan and abil	1.Advanced expert knowledge, skill and research capability ····15% 2.Profound inter-disciplinary knowledge ····35% 3.Global perspective and ability to take initiative action ····20% 4.Social leadership drive ····30%										
	f Class(授業(Lecture and								
	ng Method(挖 法)		The lecture dialogue.	(in Japanese) will be interactive, incorporation	ng eler	ments such	as discussions,	to facilitate two-way			
Course	e Goals(授業(の目的)									
Course	Learning go 目標)	als(学修	【A level (A 【C level (C								
The main aim of this course is to have interactive classes related to the interdisciplinary approaches for a Sustainable Future and Resilience. Professors from different research fields, such as medical, natural and socia sciences will deliver the lectures related to cutting-edge research and researchers' viewpoint. Students are expected to participate actively in discussion. In the final class, we will have the overall reflection of the classes different fields and discuss about the new knowledge students acquired and how they hope to utilize the outcomes in future.											
N (Details for Individual Classes(各回の	授業内 T	容)					
No.(回)	Date(月	日)		Class Theme(授業テーマ)		Brie	ef Outline of Cl	ass(内容概略)			
1											
2					A class will be held on the theme of `The impact of the Kumamoto Earthquake on groundwater, economic development, and groundwater." First, regional groundwater reserves and circulation systems will be introduced based on scientific knowledge. Then, the impacts of human activities as well as natural disasters on the groundwater environment are explained. Finally, we will discuss how to use groundwater resources sustainably.						
3											
4											
5											
6 7											
8											
Estim	nated out-of- study time	class									
Require	ed Textbook ト)	(テキス									
Read	ing List(参考	文献)									
Enrollm	· It is desirable to fully understand the objectives and purposes of the course and to engage in studies with high motivation. · It is necessary to have the ability to understand the contents of Japanese classes and to engage in discussions in Japanese. · Submitted reports should be written in either Japanese or English.										
	ment Metho ia(評価方法・										
	nguage Used ruction(使用i		Japanese								
Tex Languas	ktbook/Mate ge(教科書・資 語)	rial 資料の言	Japanese								
Work E	Based on Pi xperience(実 活かした授業	務経験	Not applica	ble							

	e Coding(科 ンバー)		emester/Ter 度・学期)	Faculty Offering Course(時間割所属・時間割コード)		Eligible Student ear(開講年次)	Credits(単位 数)	Weekday and Period(曜 日・時限)
RDM7	-171-99-2	2024v	vhole year	Graduate School of Medical Sciences (24730)		1, 2, 3, 4	1	others
		Co	urse Title(Th	eme)(科目名(講義題目))			Instructor(s)(担当教員)
S-	HIGO Cuttin	ig-Edge S	Seminar Serie	es A(S-HIGO Cutting-Edge Seminar Series /	٨)	NISHIN	AKAMURA Ryu	ichi, SHIODA Norifumi
				Goals with their ratio(学修成果と	その害	割合)		
1.Advanced expert knowledge, skill and research capability ····50% 2.Profound inter-disciplinary knowledge ····25% 3.Global perspectand ability to take initiative action ····20% 4.Social leadership drive ····5%								
Туре о	of Class(授業	の形態)	Lecture					
Teachir	ng Method(拍 法)	受業の方		tend the seminars that are authorized by t the lectures and his/her own discussion a ort.				
Course	e Goals(授業	の目的)	practice cor committed t	Science is an interdisciplinary science that nsists of lectures from researchers who wo to cutting-edge research will be invited an I to attend the seminars to acquire up-to-c	rk on d pre:	health life scie sent latest dev	ence in Japan a elopments of t	and overseas. Researchers heir own. Students are
Course	Learning go 目標)	als(学修	【A level (A水準)】 acquire up-to-date knowledge of the fields that may not be covered in the lectures, and skills to discuss scientifically in English					
	口1示)		【C level (C水準)】 acquire up-to-date knowledge of the fields that may not be covered in the lectures					
Course	Outline(授業	美の概要)		e seminars may encompass full range of is dical and pharmaceutical medicine.	sues	that are related	d to health life	science, which covers all
				Details for Individual Classes(各回	の授業	美内容)		
No.(回)	Date(月	目)		Class Theme(授業テーマ)		Brie	f Outline of Cl	ass(内容概略)
1			participate i	in the weekly seminars				conference room of ee the web for the details.
Estim	nated out-of- study time	-class	37 hrs					
Require	ed Textbook ト)	(テキス						
Read	ling List(参考	文献)						
Enrollm	ent Conditio 条件)	ons(履修						
	ment Metho ia(評価方法・		Students are obligated to attend 8 or more lectures and submit at least 2 reports. The attendance can be extended to three years (Graduate School of Pharmaceutical Sciences) or four years (Graduate School of Medical Sciences) at maximum. Grading will be based on the reports.					
Lar Instr	nguage Used ruction(使用	d in 言語)	English					
Tex Languas	ktbook/Mate ge(教科書・資 語)	erial 資料の言	Combinatio	Combination of Japanese and English				
Work E	Based on P xperience(実 活かした授業	₹務経験	Not applica	ble				

Course Coding(科 目ナンバー)		emester/Ter 度・学期)	Faculty Offering Course(時間割所属・時間割コード)	5	Eligible Student (開講年次)	Credits(単位 数)	Weekday and Period(曜 日・時限)	
RDM7-171-99-2	2024	whole year	Graduate School of Medical Sciences (24740)	1	, 2, 3, 4	2	others	
	Co	ourse Title(Th	eme)(科目名(講義題目))			Instructor(s)(担当教員)	
S-HIGO Cutt	ing-Edge S	Seminar Serie	s B(S-HIGO Cutting-Edge Seminar Series B)		NISHIN	IAKAMURA Ryu	iichi, SHIODA Norifumi	
			Goals with their ratio(学修成果とそ	の割合	ì)			
1.Advanced expert knowledge, skill and research capability ····50% 2.Profound inter-disciplinary knowledge ····25% 3.Global perspect and ability to take initiative action ····20% 4.Social leadership drive ····5%								
Type of Class(授	美の形態)	Lecture						
Teaching Method 法)	(授業の方		tend the seminars that are authorized by the the lectures and his/her own discussion ab ort.					
Course Goals(授	美の目的)	practice cor committed	Science is an interdisciplinary science that in sists of lectures from researchers who work to cutting-edge research will be invited and to attend the seminars to acquire up-to-da	on he presei	ealth life scie nt latest dev	ence in Japan a elopments of t	and overseas. Researchers heir own. Students are	
Course Learning g 目標)	oals(学修	acquire up-	【A level (A水準)】 acquire up-to-date knowledge of the fields that may not be covered in the lectures, and skills to discuss scientifically in English					
口1示 <i>)</i>		- \	【C level (C水準)】 acquire up-to-date knowledge of the fields that may not be covered in the lectures					
Course Outline(授	業の概要)		e seminars may encompass full range of issi dical and pharmaceutical medicine.	ues tha	at are relate	d to health life	science, which covers all	
			Details for Individual Classes(各回の	授業内	容)			
No.(回) Date	月日)		Class Theme(授業テーマ)		Brie	ef Outline of CI	ass(内容概略)	
1		participate	n the weekly seminars				conference room of ee the web for the details.	
Estimated out-o		75 hrs						
Required Textboo ト)	k(テキス							
Reading List(参	考文献)							
Enrollment Condi 条件)	ions(履修							
Assessment Meth Criteria(評価方法		Students are obligated to attend 15 or more lectures and submit at least 4 reports. The attendance can be extended to three years (Graduate School of Pharmaceutical Sciences) or four years (Graduate School of Medical Sciences) at maximum. Grading will be based on the reports.						
Language Us Instruction(使月	ed in 月言語)	English						
Textbook/Material Language(教科書・資料の言 語)								
Course Based on Work Experience を活かした扱	実務経験	Not applica	ble					

3. Career Support Package

Course Codin 目ナンバー			mester/Ter 度・学期)	Faculty Offering Course(時間割所属・時間 割コード)	! !	Eligible Student ır(開講年次)	Credits(単位 数)	Weekday and Period(曜 日・時限)
RDM7-703-9	9-2	2024v	vhole year	Graduate School of Medical Sciences (24760)	1	1, 2, 3, 4	2	others
		Со	urse Title(Th	neme)(科目名(講義題目))	•		Instructor(s)(担当教員)
			S-HIGO Proj	iect(S-HIGO Project)		OGA	WA Minetaro, U PRASADI	IMEDA Kahoko, HARI DEVKOTA
				Goals with their ratio(学修成果とそ	その割合	<u></u>		
1.Advanced ex and ability to t	pert kr ake ini	nowledg tiative a	ge, skill and rection · · · · 10	esearch capability ····45% 2.Profound into % 4.Social leadership drive ····15%	er-disc	iplinary kno	wledge ····30	% 3.Global perspective
Type of Class	(授業の)形態)	Other					
Teaching Met 法		業の方		r, students will present their academic achie s of their own research theme.	eveme	nt in the S-H	IIGO Professior	nal Program subjects and
Course Goals	(授業 <i>σ</i>	0目的)	skills and ac	Il present their academic achievements and cquire interdisciplinary minds and practical chers and industry mentors.				
Course Learni 目标	ng goa 票)	ls(学修	【C level (C	ive advanced research skills and interdiscip	•	•	•	
Course Outlin	e(授業(の概要)	presented a S-HIGO pro	nic achievements in the S-HIGO Professiona it the annual presentation. Students will rec gram and industry mentor on the contents d academic initiatives.	eive g	uidance and	l advice from th	ne faculty in charge of the
				Details for Individual Classes(各回の	授業内	内容)		
No.(回)	ate(月	日)		Class Theme(授業テーマ)		Brie	ef Outline of Cl	ass(内容概略)
1			Schedule w	ill be notified separately.	Sche	edule will be	notified separ	ately.
Estimated of study		class						
Required Tex		テキス						
Reading Lis	t(参考文	文献)						
Enrollment Co 条化		ns(履修						
Assessment N Criteria(評価			In response ability are e	to the students' presentation, the level of r valuated.	naster	y of research	n, interdisciplin	ary mindset, practical
Language Instruction	Used (使用言	in 語)	Japanese ar	nd English				
Textbook/Material Language(教科書・資料の言 語) Combination of Japanese and English								
Course Based Work Experie を活かし	nce(実	務経験	Not applica	ble				

Course Coding(利用 日ナンバー)	子 Year/S m(年	emester/Ter 度・学期)	Faculty Offering Course(時間割所属・時間割コード)	S	Eligible Student (開講年次)	Credits(単位 数)	Weekday and Period(曜 日・時限)		
RDM7-173-99-2	2024	whole year	Graduate School of Medical Sciences (24750)	1,	, 2, 3, 4	1	others		
Course Title(Theme)(科目名(講義題目))					Instructor(s)(担当教員)				
	S-H	HIGO Internsh	nip I(S-HIGO Internship I)	TAKEO Toru, UMEDA Kahoko, DEVKOTA HARI					
	Goals with their ratio(学修成果とその割合)								
1.Advanced expert knowledge, skill and research capability ·····20% 2.Profound inter-disciplinary knowledge ·····35% 3.Global perspective and ability to take initiative action ·····15% 4.Social leadership drive ·····30%							% 3.Global perspective		
Type of Class(授	業の形態)	Other							
Teaching Method 法)	対(授業の方	universities	based training at governmental agencies, but for industry-government-academia collabora make presentations and perform discussion	ation.	After the or	n-site experienc	e, students will be		
Course Goals(授業の目的)		skills, and p infections fi who can cre cultivate su pharmacy, a corporate n internationa students ca	The S-HIGO Professional Program combines research capabilities with interdisciplinary mindset and practical skills, and provides a bird's-eye view of complex social issues such as aging and the spread of new coronavirus infections from the perspective of health and life science. The purpose is to train professional human resources who can create technology, policies, medical care, etc. based on interdisciplinary evidence. However, in order to cultivate such qualities, it is necessary to acquire not only academic fields such as medicine, health sciences, pharmacy, and life sciences, but also specific knowledge about welfare, public health, multicultural coexistence, corporate management, compliance, and social contribution. In S-HIGO Internship I, based on regional and international field experiences at government agencies, companies, etc. and by acquiring the on-site information, students can acquire knowledge about problem setting, problem solving, practical ability to improve motivation for learning and research, and to foster a sense of professionalism.						
Course Learning goals(学修 目標)		[A level (A水準)] Students will acquire the knowledge and practical ability of welfare, public health, multicultural coexistence, knowledge of corporate management, compliance, regional and international social contribution, etc. by on-site experience of social problem solving and social contribution. [C level (C水準)] Students will acquire the knowledge of welfare, public health, multicultural coexistence, knowledge of corporate management, compliance, regional and international social contribution, etc. by on-site experience of social problem solving and social contribution.							
Course Outline(授業の概要)		Experience-based training at governmental agencies, business enterprises, etc. that are collaborating with universities for industry-government-academia collaboration to acquire knowledge about a wide range of social issues such as health and life sciences, regional revitalization, foreign workers, disaster prevention, anti-infectious disease policy, and drug research and development. Training will be conducted mainly in Japanese and interpreted into English when necessary. Companies and organizations that accept interns are subject to change. Additions or changes of host organizations will be informed via e-mail, thus please check emails regularly.							
			Details for Individual Classes(各回の	授業内	容)				
No.(回 Date	e(月日)		Class Theme(授業テーマ)		Brie	ef Outline of Cl	ass(内容概略)		
1	1		philosophy, corporate compliance, lanagement, accounting, contribution to atribution to community, learning needs, be provided during guidance.	medi situa cove	ical facilities tion, law, ar red in interi	s, etc. to learn a nd efforts to ad	versities, companies, about the history, current dress social issues guidance.		
Estimated out- study tin		This course consists of content that requires 45 hours of study. Since the class is for 30 hours, 15 hours worth pre- and post-study (including assignments) is required to deepen the understanding of the class.					hours, 15 hours worth of the class.		
Required Textbo	ok(テキス	Not specified. Handout on the outline of internship will be distributed.							
Reading List(参	考文献)	Not specified.							
Enrollment Cond 条件)	itions(履修	Approval by faculty supervisor and S-HIGO Administrative Committee is required.							
Assessment Methods and Criteria(評価方法・基準)		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.							
Language Used in Instruction(使用言語)		Japanese ar	nd English						
Textbook/Material Language(教科書・資料の言語)		Combination of Japanese and English							
Course Based or Work Experience を活かした	(実務経験	Not applica	ble						

Course Co 目ナン/		Year/Se m(年)	emester/Ter 叓・学期)	Faculty Offering Course(時間割所属・時間割コード)	S	Eligible Student (開講年次)	Credits(単位 数)	Weekday and Period(曜 日・時限)
RDM7-17	3-99-2	2024whole year		Graduate School of Medical Sciences (24800)	1	, 2, 3, 4	1	others
		Со	purse Title(Theme)(科目名(講義題目))			Instructor(s)(担当教員)		
		S-HI	GO Internshi	p II (S-HIGO Internship I)		TAKEO	Toru, UMEDA k	ahoko, DEVKOTA HARI
	Goals with their ratio(学修成果とその割合)							
1.Advanced expert knowledge, skill and research capability ····20% 2.Profound inter-disciplinary knowledge ····35% 3.Global perspective and ability to take initiative action ····15% 4.Social leadership drive ····30%							% 3.Global perspective	
Type of CI	lass(授業の	の形態)	Other					
Teaching N	Method(拐 法)	受業の方	universities	based training at governmental agencies, but for industry-government-academia collabora make presentations and perform discussion	ation.	After the or	n-site experienc	e, students will be
Course Goals(授業の目的)		の目的)	The S-HIGO Professional Program combines research capabilities with interdisciplinary mindset and practical skills, and provides a bird's-eye view of complex social issues such as aging and the spread of new coronavirus infections from the perspective of health and life science. The purpose is to train professional human resources who can create technology, policies, medical care, etc. based on interdisciplinary evidence. However, in order to cultivate such qualities, it is necessary to acquire not only academic fields such as medicine, health sciences, pharmacy, and life sciences, but also specific knowledge about welfare, public health, multicultural coexistence, corporate management, compliance, and social contribution. In S-HIGO Internship I, based on regional and international field experiences at government agencies, companies, etc. and by acquiring the on-site information, students can acquire knowledge about problem setting, problem solving, practical ability to improve motivation for learning and research, and to foster a sense of professionalism.					
Course Learning goals(学修 目標)		als(学修	[A level (A水準)] Students will acquire the knowledge and practical ability of welfare, public health, multicultural coexistence, knowledge of corporate management, compliance, regional and international social contribution, etc. by on-site experience of social problem solving and social contribution. [C level (C水準)] Students will acquire the knowledge of welfare, public health, multicultural coexistence, knowledge of corporate management, compliance, regional and international social contribution, etc. by on-site experience of social problem solving and social contribution.					
Course Outline(授業の概要)		₹の概要)	Experience-based training at governmental agencies, business enterprises, etc. that are collaborating with universities for industry-government-academia collaboration to acquire knowledge about a wide range of social issues such as health and life sciences, regional revitalization, foreign workers, disaster prevention, anti-infectious disease policy, and drug research and development. Training will be conducted mainly in Japanese and interpreted into English when necessary. Companies and organizations that accept interns are subject to change. Additions or changes of host organizations will be informed via e-mail, thus please check emails regularly.					
				Details for Individual Classes(各回の	授業内	容)		
No.(回)	Date(月	日)		Class Theme(授業テーマ)		Brie	ef Outline of Cl	ass(内容概略)
1	1		planning, m society, cor career path	philosophy, corporate compliance, anagement, accounting, contribution to atribution to community, learning needs, be provided during guidance.	medi situa cove	cal facilities tion, law, ar red in interi	s, etc. to learn a nd efforts to ad	versities, companies, about the history, current dress social issues guidance.
	ed out-of- udy time	class	This course consists of content that requires 45 hours of study. Since the class is for 30 hours, 15 hours worth opre- and post-study (including assignments) is required to deepen the understanding of the class.					
Required 1	Textbook ト)	(テキス	Not specified. Handout on the outline of internship will be distributed.					
Reading	List(参考	文献)	Not specified.					
Enrollment	Conditio 条件)	ns(履修	Approval by faculty supervisor and S-HIGO Administrative Committee is required.					
Assessment Methods and Criteria(評価方法・基準)		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.						
Language Used in Instruction(使用言語)		Japanese ar	nd English					
Textbook/Material Language(教科書・資料の言語)		Combination of Japanese and English						
Course Bar Work Expe を活力		務経験	Not applica	ble				

Course Coding 目ナンバー)	(科 Year/S m(年	Semester/Ter F度・学期)	Faculty Offering Course(時間割所属・時間 割コード)	S	Eligible itudent ·(開講年次)	Credits(単位 数)	Weekday and Period(曜 日・時限)		
RDM7-174-99	-1 2024	1whole year	Graduate School of Medical Sciences (24770)	1	, 2, 3, 4	1	others		
Course Title(Theme)(科目名(講義題目))						Instructor(s)(担当教員)			
S-HI	GO Leade	rship Trainin	g Course(Leadership training course)	e(Leadership training course) MORIOKA Hiroshi, DEVKOTA HARI, MIT ANDREW NEIL					
	Goals with their ratio(学修成果とその割合)								
2.Profound inte40%	r-disciplina	ry knowledge	····20% 3.Global perspective and ability to	take ii	nitiative act	ion · · · · 40% 4.	Social leadership drive · ·		
Type of Class(受業の形態)	Seminar							
Teaching Meth 法)	od(授業の方	Practice an	d small group discussions						
Course Goals(受業の目的)	Students wi	ll learn self-leadership, team-leadership, gloties.	bal lea	adership an	d the practical	skills in business and		
Course Learning goals(学修 目標)		Students wi studies. In a [C level (C	[A level (A水準)] Students will learn self-leadership, team-leadership and global leadership through their theories and case studies. In addition, they will make and present their leadership development plan for their future actions. [C level (C水準)] Students will learn self-leadership, team-leadership and global leadership through their theories and case studies.						
Course Outline	授業の概要		Understand the flow of leadership theory and the overall picture of leadership in a 3-day leadership program similar to that learned at MBA (business school), etc.						
			Details for Individual Classes(各回の	授業内	容)				
No.(回 Da	te(月日)		Class Theme(授業テーマ)		Brief Outline of Class(内容概略)				
1	Leaders global le		theory, self leadership, team leadership, ership	Learn about leadership theory, self leadership, to leadership, global leadership through lectures, c studies and small group discussions			rough lectures, case		
Estimated out-of-class study time		This course 24 hours we class.	This course consists of content that requires 45 hours of study. Since the class is for 21 hours (7hour \times 3 days), 24 hours worth of pre- and post-study (including assignments) is required to deepen the understanding of the class.						
Required Textk ト)	ook(テキス	World Class	World Class Leadership (World Scientific)						
Reading List(参考文献)	Not applicable.							
Enrollment Con 条件		Students ar	Students are advised to read "World Class Leadership" beforehand.						
	Assessment Methods and Criteria(評価方法・基準)		Students will be evaluated according to their activities during the three-day leadership program (50%) and reports using e-portfolio (50%).						
Language Used in Instruction(使用言語)		English	English						
Textbook/Material Language(教科書・資料の言 語)		Combination	Combination of Japanese and English						
Course Based work Experient を活かした	e(実務経験		ble						

	Coding(科 ンバー)	Year/Semester/Ter m(年度・学期)		Faculty Offering Course(時間割所 割コード)	属・時間	Eligible Student Year(開講年次)	Credits(単位 数)	Weekday and Period(曜 日・時限)		
RDM7	-175-99-2	2024whole year		Graduate School of Medical Sc (24780)	ciences	1, 2, 3, 4	1	others		
Course Title(Theme)(科目名(講義題目))							Instructor(s)(担当教員)		
S-HIGO Governmental and Business Seminar Series A(S-HIGO Governmental and Busines Seminar)						iness SARUWA	ness SARUWATARI Jiyunji, UMEDA Kahoko, DEVKOTA HARI			
	Goals with their ratio(学修成果とその割合)									
1.Advanced expert knowledge, skill and research capability ····20% 2.Profound inter-disciplinary knowledge ····25% 3.Global perspective and ability to take initiative action ····25% 4.Social leadership drive ····30%										
Type o	f Class(授業	の形態)	Lecture							
Teachir	ng Method(擅 法)	受業の方	Students wi the student	ssions will be driven by questions a Il attend the seminars and write re s' own thoughts on the topics. In tl non-Japanese lecturers the materi	ports. The he case of	reports should in Japanese lecture	nclude a summ	ary of the lectures and		
Course	e Goals(授業	の目的)	interdiscipli of health an and society these qualit health scier and society	Fellowship Program aims to deve nary mindset and practical skills in d life sciences, there is a need for and who can plan and implemen- ies, it is necessary to acquire a wic ices, pharmacy, and life sciences, se, students attend seminars in wh	n health ar human re t strategies de range o but also to	nd life sciences to sources who have s to address com f knowledge not o deepen one's u	o realize diverse e a bird's-eye vi plex health issu only in the acac nderstanding of	e career paths. In the field ew of future medicine es. In order to cultivate demic fields of medicine, industry, government,		
Course Cours(IXXV CIP)			foreign com perspective to society, a developmen knowledge the global s	panies, government agencies, and s from business and government, und cultivating qualities that will ent. The following is a brief overview about solutions to various issues in cale, including the current status and the career paths of lecturers, we	d universiti understand nable them v of the pro n health ar and future	es are invited as ding their needs, n to respond sens ogram. Students nd life sciences a prospects, how h	lecturers, with the becoming aware it wely and help will be able to and other fields, nealth and life s	the aim of acquiring re of their responsibilities them in their career acquire the latest from individual lives to ciences can be returned		
Course Learning goals(学修 目標)		als(学修	[A level (A水準)] In addition to acquiring and applying knowledge not only in the academic fields of medicine, health, pharmacy, and life sciences, but also in welfare, public health, environmental resources, recycling society, biodiversity, environmental ethics, and other health and life science issues ranging from individual life to the global scale, the student should be able to understand industry, government, and society, and to understand their needs. Acquire and practice qualities that enable them to be aware of their responsibility to society with a strong sense of responsibility and be sensitive to the needs of society [C level (C水準)] Acquire a wide range of knowledge about not only the academic fields of medicine, health science, pharmacy, and life science, but also welfare, public health, environmental resources, recycling society, biodiversity, and environmental ethics, etc., and about solving various problems in health and life science from individual life to global scale, and understand industry, government, and society and their needs strongly. Acquire the qualities to be aware of and sensitive to their responsibility to society.							
Course Outline(授業の概要)			government and pharma resources, Se Business Se Lecturers in they related social respo international In the case such cases. You must at It should be charge of th	om the Kumamoto prefectural goveragencies will be invited to discussiceutical policy, welfare, environmustainability, biodiversity, environminar vited from the companies such as to a diverse range of areas that spinsibility, community outreach, the ilization, the environment, sustained Japanese speakers, lectures will tend at least 8 times for each during noted that, Information on holding electure has been added or chan	s topics in ent, public mental eth following pan everytie local eco ability, ma I be given in g your er ag seminar	medical and phace health, health rinics, etc. will discuss the ming from corpornomy, human resunagement, public in Japanese, but in rollment in the pand if the compa	rmaceutical sci sk managemen nedical and pha ate philosophy cources develop c relations, and English interpre program.	iences as well as medical t, environmental armaceutical sciences as to compliance, corporate oment, more.		
			charge of the lecture has been added or changed, it will be posted on the HIGO program home page, so please check at any time (Governmental Seminar) https://higoprogram.jp/category/gyousei/ (Business Seminar) https://higoprogram.jp/category/kigyou/							
				Details for Individual Class	ses(各回の	授業内容)				
No.(回)	Date(月	目)		Class Theme(授業テーマ)		Bri	ef Outline of Cl	ass(内容概略)		
1	6		environmen etc., and ex soon as the	harmacy, and public health, policy t, public health, environmental res amples of solutions to social issue themes are decided, they will be p D Program website.	sources, s. As	business, examp social issues, ca students, etc. As soon as cond	oles of solutions reer path of the rete contents a	ganization and its to health or various e lecturer, message to re decided, they will be		
Estim	nated out-of- study time	-class	This course Since the cl done by eac	ecture and seminar courses (2 crecis a two-credit course, so it consis ass consists of 2 hours x 15 period the student according to the follow ts: equivalent to 3.5 hours each times.	sts of conte ds = 30 ho ing:	urs of study, the	90 hours of sturemaining 60 h	dy in total.		
	caus, amo		Each course consists of 45 hours of required study. The class will be 16 hours worth (2h x 8 sessions), so 29 hours worth of pre- and post-learning (including assignments, etc.) will be required to deepen understanding of the course.							

Required Textbook(テキスト)	None specified, but handouts outlining the seminar will be distributed.
Reading List(参考文献)	None specified.
Enrollment Conditions(履修 条件)	You should participate in the seminar as long as there is no special reason. If you want to be absent a seminar for a special reason, you must submit the absence reason statement to the HIGO program office. In that case, you can see the movie of the lecture in Moodle via e-learning.
Assessment Methods and Criteria(評価方法・基準)	You must attend at least 8 seminars and submit at least two reports. The reports should be about the content of the seminar.
Language Used in Instruction(使用言語)	Japanese and English
Textbook/Material Language(教科書・資料の言語)	Combination of Japanese and English
Course Based on Practical Work Experience(実務経験 を活かした授業)	Not applicable

	Coding(科 ンバー)	Year/Semester/Ter m(年度・学期)		Faculty Offering Course(時間割所属割コード)	・時間	Eligible Student Year(開講年次)	Credits(単位 数)	Weekday and Period(曜 日・時限)	
RDM7	-176-99-2	2024whole year		Graduate School of Medical Scien (24790)	nces	1, 2, 3, 4	2	others	
Course Title(Theme)(科目名(講義題目))							Instructor(s)(担当教員)	
S-HIGO Governmental and Business Seminar Series B(S-HIGO Governmental and Busines Seminar)						iness SARUWA	ness SARUWATARI Jiyunji, UMEDA Kahoko, DEVKOTA HARI		
	Goals with their ratio(学修成果とその割合)								
1.Advanced expert knowledge, skill and research capability ····20% 2.Profound inter-disciplinary knowledge ····25% 3.Global perspective and ability to take initiative action ····25% 4.Social leadership drive ····30%									
Type o	f Class(授業	の形態)	Lecture						
Teachir	ng Method(擅 法)	受業の方	Students wi the student	ssions will be driven by questions and Il attend the seminars and write repo s' own thoughts on the topics. In the non-Japanese lecturers the materials	rts. The case of	reports should i Japanese lecture	nclude a summ	ary of the lectures and	
Course	Course Goals(授業の目的)		interdiscipli of health an and society these qualit health scier and society In this cours	Fellowship Program aims to develop nary mindset and practical skills in h d life sciences, there is a need for hu and who can plan and implement st ies, it is necessary to acquire a wide ices, pharmacy, and life sciences, bu se, students attend seminars in which panies, government agencies, and u	ealth ar uman re trategies range o t also to n manag	nd life sciences to sources who have s to address com f knowledge not o deepen one's un gers, researchers,	o realize diverse e a bird's-eye vi plex health issu only in the acac nderstanding of and developer	e career paths. In the field ew of future medicine es. In order to cultivate demic fields of medicine, industry, government, s from domestic and	
			perspective to society, a development knowledge the global s	s from business and government, un- nd cultivating qualities that will enab nt. The following is a brief overview o about solutions to various issues in h cale, including the current status and nd the career paths of lecturers, whi	derstand ble them f the pro lealth ar d future	ding their needs, n to respond sens ogram. Students nd life sciences a prospects, how h	becoming awar sitively and help will be able to a nd other fields, nealth and life s	re of their responsibilities of them in their career acquire the latest from individual lives to ciences can be returned	
Course Learning goals(学修 目標)		als(学修	[A level (A水準)] In addition to acquiring and applying knowledge not only in the academic fields of medicine, health, pharmacy, and life sciences, but also in welfare, public health, environmental resources, recycling society, biodiversity, environmental ethics, and other health and life science issues ranging from individual life to the global scale, the student should be able to understand industry, government, and society, and to understand their needs. Acquire and practice qualities that enable them to be aware of their responsibility to society with a strong sense of responsibility and be sensitive to the needs of society [C level (C水準)] Acquire a wide range of knowledge about not only the academic fields of medicine, health science, pharmacy, and life science, but also welfare, public health, environmental resources, recycling society, biodiversity, and environmental ethics, etc., and about solving various problems in health and life science from individual life to global scale, and understand industry, government, and society and their needs strongly. Acquire the qualities to be aware of and sensitive to their responsibility to society.						
Governmental Seminar Lecturers from the Kumamoto prefectural government, Kumamoto municipal government, national ar government agencies will be invited to discuss topics in medical and pharmaceutical sciences as well and pharmaceutical policy, welfare, environment, public health, health risk management, environment resources, sustainability, biodiversity, environmental ethics, etc. Business Seminar Lecturers invited from the companies such as following will discuss the medical and pharmaceutical states are verything from corporate philosophy to compliance social responsibility, community outreach, the local economy, human resources development, internationalization, the environment, sustainability, management, public relations, and more. In the case of Japanese speakers, lectures will be given in Japanese, but English interpretation will be such cases. You must attend at least 15 times for each during your enrollment in the program. It should be noted that, Information on holding seminar and if the companies and organizations that charge of the lecture has been added or changed, it will be posted on the HIGO program home page, check at any time					iences as well as medical t, environmental armaceutical sciences as to compliance, corporate oment, more.				
			(Governmental Seminar) https://higoprogram.jp/category/gyousei/ (Business Seminar) https://higoprogram.jp/category/kigyou/						
No /E				Details for Individual Classes	(各回の:	授業内容) 【			
No.(回)	Date(月	目)		Class Theme(授業テーマ)			ef Outline of Cl	, ,	
1			environmen etc., and ex soon as the	Medicine, pharmacy, and public health, policy, environment, public health, environmental resources, etc., and examples of solutions to social issues. As soon as the themes are decided, they will be posted on the HIGO Program website.		business, examp social issues, ca students, etc. As soon as cond	oles of solutions reer path of the crete contents a	rganization and its to health or various e lecturer, message to re decided, they will be	
Example: Lecture and seminar courses (2 credits) This course is a two-credit course, so it consists of content that requires 90 hours of study in to Since the class consists of 2 hours x 15 periods = 30 hours of study, the remaining 60 hours of study time Estimated out-of-class study time Example: Lecture and seminar courses (2 credits) This course is a two-credit course, so it consists of content that requires 90 hours of study in to Since the class consists of 2 hours x 15 periods = 30 hours of study, the remaining 60 hours of study time (Assignments: equivalent to 3.5 hours each time, final report: equivalent to 7.5 hours)						dy in total. ours of study should be			
			The course consists of 90 hours of required study. The class will be 30 hours worth (2h x 15 sessions), so 60 hours worth of pre- and post-learning (including assignments, etc.) will be required to deepen understanding of the course.						

Required Textbook(テキスト)	None specified, but handouts outlining the seminar will be distributed.
Reading List(参考文献)	None specified.
Enrollment Conditions(履修 条件)	You should participate in the seminar as long as there is no special reason. If you want to be absent a seminar for a special reason, you must submit the absence reason statement to the HIGO program office. In that case, you can see the movie of the lecture in Moodle via e-learning.
Assessment Methods and Criteria(評価方法・基準)	You must attend at least 15 seminars and submit at least 4 reports. The reports should be about the content of the seminar.
Language Used in Instruction(使用言語)	Japanese and English
Textbook/Material Language(教科書・資料の言語)	Combination of Japanese and English
Course Based on Practical Work Experience(実務経験 を活かした授業)	Not applicable