

**Academic Year 2026**

**GRADUATE SCHOOL OF HEALTH SCIENCES  
SYLLABUS  
MASTER'S COURSE**

**FUJITA HEALTH UNIVERSITY  
GRADUATE SCHOOL OF HEALTH SCIENCES**

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# **Master's Course Curriculum**

## **Graduate School of Health Sciences**

### **Fujita Health University**

Pursuing Comprehensive Knowledge and Original Research in Health Sciences

Midori Hasegawa, Dean of the Graduate School of Health Sciences, Fujita Health University

The Graduate School of Health Sciences at Fujita Health University was established based on the university's founding spirit, "*Our creativity for the people*"— the philosophy that your own creativity serves as the power to open a new era. This graduate school strives to deepen academic exploration through education and research on theoretical and practical aspects of health sciences. Aligned with these efforts, we aim to contribute to the advancement of public health and the enrichment of culture. The program fosters highly specialized professionals, organizational leaders, researchers, and educators across health sciences fields. The school promotes interdisciplinary learning by offering shared subjects to students in both the nursing and rehabilitation divisions, recognizing the importance of mutual understanding and collaboration among specialized medical professionals engaged in team-based medicine.

The division of Nursing is composed of six fields: Adult and Gerontological Nursing, Mental Health and Community Health Nursing, Maternal and Child Health Nursing, Fundamental and Integrated Nursing Science, Acute Phase and Perioperative Nursing, and Transplant Coordination. The division of Rehabilitation comprises five fields: Activity Sciences, Dysphagia Rehabilitation, Rehabilitation Functional Morphology, Rehabilitation Education Science, and Rehabilitation Bioengineering. In this program, students are required to complete a minimum of 30 credits, which include common subjects, specialized subjects in various field, with the exception of the field of Acute and Perioperative Nursing, in which a minimum of 57 credits is required. To fulfill the requirements for graduation, students must also submit a master's thesis (or a project-based research paper for Acute Phase and Perioperative Nursing and Transplant Coordination) and pass both the thesis review and the final examination. The degree of Master of Nursing is conferred upon students who complete the nursing program, and the degree of Master of Health Sciences is conferred upon completion of the rehabilitation program.

Through research, the master's curriculum aims to meet the following objectives:

1. To proactively explore issues and challenges in the specialist discipline.
2. To profoundly understand existing studies and recognize the progression of research in the fields.

3. To design and conduct original research topics and methodologies.
4. To construct coherent arguments and communicate research findings effectively.
5. To contribute to society through advanced expertise and research capabilities.

The two-year duration of a master's program may seem short, but the experience and exposure gained during that time are extremely important for career development. As faculty and staff, we encourage you to believe in your own potential, actively learn, and continually improve yourself. We wish you all the best on your journey of personal growth and academic development and look forward to walking beside you.

## **Three Policies of the Graduate School of Health Sciences**

The master's program, Major in Health Sciences, at the Graduate School of Health Sciences comprises two distinct fields: Nursing (leading to the degree of Master of Nursing Science) and Rehabilitation (leading to the degree of Master of Health Science). Each field establishes its own set of three policies—Admission, Curriculum, and Diploma—tailored to its academic objectives. In light of the growing importance of mutual understanding and inter-professional collaboration among specialized healthcare professionals in today's team-based medical care, the program fosters interdisciplinary learning through shared courses and joint seminars across related fields.

### Field of Nursing (Degree: Master of Nursing)

#### **1. Admission Policy**

The Master's program in the field of Nursing seeks students who possess the following qualities:

- (1) A broad interest in the diverse areas of the health sciences, with a self-directed and proactive approach to identify and explore key issues in nursing and related fields.
- (2) A strong commitment to deepening expertise in the selected research topic and persistent efforts toward the discovery of new knowledge and deeper truths.
- (3) A clear dedication to becoming highly skilled healthcare professionals and leaders who promote team-based medical practice through advanced nursing and health science knowledge.
- (4) A motivation to advance nursing and health sciences through active engagement as educators and researchers.

#### **2. Curriculum Policy**

In the Master of Nursing Science program, the curriculum is systematically structured to help students acquire the competencies outlined in the Diploma Policy. The program combines coursework, including lectures, seminars, and practical training, with research work, including Master's theses, all organized according to the following policies:

- (1) In common elective courses, students gain broad academic insight by engaging with interdisciplinary areas of study beyond their field of specialization.
- (2) In advanced topics and seminars related to the major, students enhance their ability to independently identify and explore key challenges in nursing science, while developing practical problem-solving and analytical skills required to address problems in specialized areas.
- (3) In the Health Science Seminar, a required common course, students learn from leading researchers in the field and cultivate the ability to understand cutting-edge research trends and apply insights to enhance nursing practice.
- (4) In the master's degree research component, students hone their ability to formulate and implement research projects, construct coherent theoretical arguments, and write scholarly theses that demonstrate academic rigor.

### **3. Diploma Policy**

To be conferred the Master of Nursing Science degree, students must be enrolled for at least the prescribed minimum period, complete the required credits in accordance with the program's educational philosophy and objectives, and successfully pass both the thesis examination (or an evaluation of research outcomes on a specific topic) and the final examinations. This degree is awarded to individuals who demonstrate the following competencies:

- (1) The ability to independently explore and address the key issues and challenges in the field of nursing.
- (2) The ability to critically understand previous research through broad academic insight and a deep understanding of relevant literature.
- (3) The ability to formulate and implement original research questions and methodologies with novelty and creativity.
- (4) The ability to develop and present coherent and logically structured arguments.
- (5) The ability to conduct research in the field of nursing and to engage in professional roles that require advanced expertise.

## Field of Rehabilitation (Degree: Master of Health Sciences)

### **1. Admission Policy**

The Master's program in the field of Rehabilitation seeks students who possess the following qualities:

- (1) A broad interest in diverse areas of the health sciences, with a self-directed and proactive approach to identify and explore key issues in rehabilitation science.
- (2) A strong commitment to deepening their expertise in the selected research areas and making persistent efforts in the pursuit of truth.
- (3) A desire to advance the field of healthcare through research while actively upholding a strong and enduring sense of social responsibility as a researcher.
- (4) A motivation to become an educator who actively engages in lifelong learning and the development of health sciences.
- (5) A clear dedication to becoming highly skilled healthcare professionals and leaders who contribute to society through collaborative, team-based medical practices.

### **2. Curriculum Policy**

In the Master of Health Science program, the curriculum is systematically structured to help students acquire the competencies outlined in the Diploma Policy. The program combines coursework, including lectures and seminars (practicums), with research work including Master's theses, all organized according to the following policies:

- (1) In common elective courses, students gain broad academic insight through the study of interdisciplinary knowledge, including clinical and related fields.
- (2) In advanced topics and seminars (practicums), students enhance their foundational academic competencies and cultivate the capacity to identify and address research questions independently by understanding the progression, current trends and future trajectories of research in their discipline.
- (3) In Health Science Seminars, students gain exposure to the latest research trends through lectures delivered by leading scholars, fostering their ability to critically comprehend and engage with cutting-edge research.
- (4) In the master's degree research component, students cultivate the ability to conduct scholarly inquiries in a coherent and structured manner, encompassing research planning, executing investigations or experiments, academic writing, and presenting at academic conferences.

### **3. Diploma Policy**

To be conferred the Master of Health Science degree, students must be enrolled for at least the prescribed minimum period, complete the required credits in accordance with the program's educational philosophy and objectives, and successfully pass both the thesis examination and the final examination. This degree is awarded to individuals who demonstrate the following competencies:

- (1) The ability to independently identify and investigate issues rooted in clinical practice within their area of specialization.
- (2) The ability to critically understand the historical development and evolution of research in their field through broad academic insight and in-depth analysis of prior studies.
- (3) The ability to formulate and implement original research questions and methodologies.
- (4) The ability to present research findings through logically structured academic writing and professional scholarly presentations.

- (5) The ability to conduct research in the area of specialization and to engage in professional roles that require advanced expertise.

## The total number of credits required

### 1) Nursing

Course	Number of credits		Notes
	Mandatory	Elective	
Common subjects	2 credits	6 credits or more	8 credits or more as a common subject
Adult and Gerontological Nursing	18credits		18 credits for each field
Mental Health and Community Health Nursing	18credits		
Maternal and Child Health Nursing	18credits		
Fundamental and Integrated Nursing Science	18credits		
Transplant Coordination	18credits		
Common subjects or Advanced Topics in fields not majored		4 credits or more	4 credits or more
<b>Total</b>	<b>30 credits or more</b>		

### 2) Nursing (Acute phase and Perioperative Period)

Course	Number of credits		Notes
	Mandatory	Elective	
Common subjects	6 credits		
Acute Phase and Perioperative Period	51credits		
<b>Total</b>	<b>57 credits or more</b>		

3) Rehabilitation

Course	Number of credits		Notes
	Mandatory	Elective	
Common subjects	2 credits	6 credits or more	8 credits or more as a common subject
Activity Science	16credits		16 credits for each fields
Dysphagia Therapy	16credits		
Rehabilitation Functional Morphology	16credits		
Rehabilitation Biomedical Engineering	16credits		
Common subjects or Advanced Topics in fields not majored		6 credits or more	6credits or more
Total	30 credits or more		

4) Rehabilitation (Rehabilitation Educational Sciences)

Course	Number of credits		Notes
	Mandatory	Elective	
Common subjects	2 credits	6 credits or more	8 credits or more as a common subject
Rehabilitation Educational Sciences	18 credits		
Common subjects or Advanced Topics in fields not majored		4 credits or more	4credits or more
Total	30 credits or more		

Curriculum table

1) Common subjects

Department	Course title	Credit (Hours)		1st year		2nd year		Notes
		Mandatory	Elective	Autumn semester	Spring semester	Autumn semester	Spring semester	
Common subjects	Seminars in Health Sciences	2 (30)		1		1		
	Bioethics		2 (30)		2			
	Introduction to Health Sciences		2 (30)		2			
	Introduction to Health Care Sciences and Practices		2 (30)	2				
	Nursing Research Methodology		2 (30)		2			
	Nursing Theory		2 (30)	2				
	Consultation Theory		2 (30)	2				
	Interprofessional Health Care		1 (15)		1			
	Advanced Topics in Medical Safety		1 (15)		1			
	Rehabilitation Medicine		2 (30)		2			
	Introduction to Rehabilitation Sciences		2 (30)		2			
	Advanced Topics in Exercise Physiology		2 (30)	2				
	Clinical Education		2 (30)		2			
	Motor Function Disorders		2 (30)		2			

## 2) Nursing

Department	Course title	Credit (Hours)		1st year		2nd year		Notes
		Mandatory	Elective	Spring semester	Autumn semester	Spring semester	Autumn semester	
Adult and Gerontological Nursing	Advanced Topics in Adult and Gerontological Nursing I		2(30)	2				
	Advanced Topics in Adult and Gerontological Nursing II		2(30)		2			
	Seminars in Adult and Gerontological Nursing I		2(60)	2				
	Seminars in Adult and Gerontological Nursing II		2(60)		2			
	Master's Research in Adult and Gerontological Nursing		10(300)		2	4	4	
Mental Health and Community Health Nursing	Advanced Topics in Mental Health and Community Health Nursing I		2(30)	2				
	Advanced Topics in Mental Health and Community Health Nursing II		2(30)		2			
	Seminars in Mental Health and Community Health Nursing I		2(60)	2				
	Seminars in Mental Health and Community Health Nursing II		2(60)		2			
	Master's Research in Mental Health and Community Health Nursing		10(300)		2	4	4	
Maternal and Child Health Nursing	Advanced Topics in Maternal and Child Health Nursing I		2(30)	2				
	Advanced Topics in Maternal and Child Health Nursing II		2(30)		2			
	Seminars in Maternal and Child Health Nursing I		2(60)	2				
	Seminars in Maternal and Child Health Nursing II		2(60)		2			
	Master's Research in Maternal and Child Health Nursing		10(300)		2	4	4	
Fundamental and Integrated Nursing Science	Advanced Topics in Fundamental and Integrated Nursing Science I		2(30)	2				
	Advanced Topics in Fundamental and Integrated Nursing Science II		2(30)		2			
	Seminars in Fundamental and Integrated Nursing Science I		2(60)	2				
	Seminars in Fundamental and Integrated Nursing Science II		2(60)		2			
	Master's Research in Fundamental and Integrated Nursing Science		10(300)		2	4	4	

Department	Course title	Credit (Hours)		1st year		2nd year		Notes
		Mandatory	Elective	Spring semester	Autumn semester	Spring semester	Autumn semester	
※1 Acute phase and Perioperative Period	Physical Assessment		2 (30)	2				
	Advanced Topics in Medical Physiology		2 (30)	2				
	Advanced Topics in Clinical Pharmacology		2 (30)	2				
	Pharmacotherapeutics		2 (30)		2			
	Advanced Topics in Critical Care Nursing		2 (30)	2				
	Advanced Topics in Medical Pathognomy of Surgery		2 (30)	2				
	Advanced Topics in Internal Medicine		3 (45)		3			
	Advanced Topics in Management of Surgical Patient I		3 (45)		3			
	Advanced Topics in Management of Surgical Patient II		3 (45)		3			
	Advanced Topics in Management of Acute Patient		3 (45)		3			
	Advanced Topics in Home Medical Care		1 (15)		1			
	Seminars in Acute and Surgical Patient Management		2 (60)		2			
	Clinical Practicum in Home Medical Care		1 (45)					1
	Comprehensive Clinical Training in Acute and Surgical Patient Treatment		19(855)			1 9		
	Master's Research in Acute and Perioperative Period		5 (150)				3	2

※1 Students majoring in *Acute phase and Perioperative Period* must take “Introduction to Health Sciences”, “Team medical treatment” and “Seminars for clinical safety management” from the Common subjects

Department	Course title	Credit (Hours)		1st year		2nd year		Notes	
		Mandatory	Elective	Spring semester	Autumn semester	Spring semester	Autumn semester		
※2 Transplant Coordination	Bioethics in Organ and Tissue Transplantation		2(30)		2				
	Principles of Organ and Tissue Transplantation		2(30)	2					
	Advanced Topics in Transplant Coordination		2(30)	2					
	<<Recipient transplant coordination course>>								
	Seminars in Recipient Transplant Coordinator		2(60)			2			
	Practicum in Recipient Transplant Coordination		5(150)	5					
	Master's Research in Recipient Transplant Coordination		5(150)		1	2	2		
	<<Donor transplant coordination course>>								
	Seminars in Donor Coordination		2(60)			2			
	Practicum in Donor Coordination		5(150)	5					
	Master's Research in Donor Coordination		5(150)		1	2	2		

※2 Students majoring in *Transplant Coordination* must take “Bioethics”, “Consultation” and “Team medical treatment” from the Common subjects.

### 3) Rehabilitation

Department	Course title	Credit (Hours)		1st year		2nd year		Notes
		Mandatory	Elective	Spring semester	Autumn semester	Spring semester	Autumn semester	
Activities Sciences	Advanced Topics in Rehabilitation Science Seminars		2 (30)		2			
	Seminars in Activity Science		4 (120)		2	2		
	Master's Research in Activity Science		10(300)		1	4	5	
Dysphagia Therapy	Advanced Topics in Dysphagia Therapy		2 (30)		2			
	Seminars in Dysphagia Therapy		4 (120)		2	2		
	Master's Research in Dysphagia Therapy		10(300)		1	4	5	
Rehabilitation Functional Morphology	Advanced Topics in Rehabilitation Functional Morphology		2 (30)		2			
	Seminars in Rehabilitation Functional Morphology		4 (120)		2	2		
	Master's Research in Rehabilitation Functional Morphology		10(300)		1	4	5	
Rehabilitation Educational Sciences	Advanced Topics in Rehabilitation Educational Science I		2 (30)	2				
	Advanced Topics in Rehabilitation Educational Science II		2 (30)	2				
	Seminars in Rehabilitation Educational Science		4 (120)		2	2		
	Master's Research in Rehabilitation Educational Science		10(300)		1	4	5	
Rehabilitation Biomedical Engineering	Advanced Topics in Rehabilitation Science Seminars		2 (30)		2			
	Seminars in Rehabilitation Biomedical Engineering		4 (120)		2	2		
	Master's Research in Rehabilitation Biomedical Engineering		10(300)		1	4	5	

## Subjects and instructors

### 1) Common subjects

Department	Course Titles	Credits	Hours	Instructor Name
Common subjects	Seminars in Health Sciences	2	30	HASEGAWA Midori
	Bioethics	2	30	SATO Tsutomu
	Introduction to Health Sciences	2	30	HAYASHI Mutsuharu, SEKO Rumi ONOGI Keiko, HASEGAWA Midori
	Introduction to Health Care Sciences and Practices	2	30	SUGAMA Junko, KOHTA Masushi
	Nursing Research Methodology	2	30	SUGAMA Junko, MURAYAMA Ryoko MIYAMOTO Miho, KOUTA Masushi, MIURA Yuka, SHIMIZU Mikiko
	Nursing Theory	2	30	MINAGAWA Atsuko, MIYAMOTO Miho, OKAJIMA Noriko
	Consultation Theory	2	30	ITO Sakurako
	Interprofessional Health Care	1	15	SAKAI Hirotaka
	Advanced Topics in Medical Safety	1	15	SAKAI Hirotaka, MIYASHITA Terumi
	Rehabilitation Medicine	2	30	OTAKA Yohei, SHIBATA Seiko, HIRANO Satoshi, MAEDA Hirofumi, TOHYAMA Takamichi, MATSUURA Hirotaka, MATSUURA Daisuke
	Introduction to Rehabilitation Sciences	2	30	KANADA Yoshikiyo, TERANISHI Toshio SUZUKI Megumi, INAMOTO Yoko TAKEDA Kotaro, TSUZUKI Akira TANIKAWA Hiroki
	Advanced Topics in Exercise Physiology	2	30	TERANISHI Toshio, YAMADA Kouji OHTSUKA Kei, TAKEDA Kotaro AIZU Naoki, UEHARA Shintaro
	Clinical Education	2	30	MURAOKA Chikusa
	Motor Function Disorders	2	30	TERANISHI Toshio, SUZUKI Megumi TANABE Shigeo, OHTSUKA Kei TAKEDA Kotaro, UEHARA Shintaro TANIKAWA Hiroki

2) Nursing

Department	Course Titles	Credits	Hours	Instructor Name
Adult and Gerontological Nursing	Advanced Topics in Adult and Gerontological Nursing I	2	30	NAKAMURA Sayuri
	Advanced Topics in Adult and Gerontological Nursing II	2	30	SUGAMA Junko, MIURA Yuka
	Seminars in Adult and Gerontological Nursing I	2	60	NAKAMURA Sayuri, SUGAMA Junko, MIURA Yuka
	Seminars in Adult and Gerontological Nursing II	2	60	NAKAMURA Sayuri, SUGAMA Junko, MIURA Yuka
	Master's Research in Adult and Gerontological Nursing	10	300	NAKAMURA Sayuri, SUGAMA Junko, MIURA Yuka
Mental Health and Community Health Nursing	Advanced Topics in Mental Health and Community Health Nursing I	2	30	SEKO Rumi, MIYAMOTO Miho
	Advanced Topics in Mental Health and Community Health Nursing II	2	30	SEKO Rumi, MIYAMOTO Miho
	Seminars in Mental Health and Community Health Nursing I	2	60	SEKO Rumi, MIYAMOTO Miho
	Seminars in Mental Health and Community Health Nursing II	2	60	SEKO Rumi, MIYAMOTO Miho
	Master's research in Mental Health and Community Health Nursing	10	300	SEKO Rumi, MIYAMOTO Miho
Maternal and Child Health Nursing	Advanced Topics in Maternal and Child Health Nursing I	2	30	FUJIWARA Iku, SHIMIZU Mikiko
	Advanced Topics in Maternal and Child Health Nursing II	2	30	FUJIWARA Iku, SHIMIZU Mikiko
	Seminars in Maternal and Child Health Nursing I	2	60	FUJIWARA Iku
	Seminars in Maternal and Child Health Nursing II	2	60	FUJIWARA Iku
	Master's Research in Maternal and Child Health Nursing	10	300	FUJIWARA Iku

Department	Course Titles	Credits	Hours	Instructor Name
Fundamental and Integrated Nursing Science	Advanced Topics in Fundamental and Integrated Nursing Science I	2	30	MURAYAMA Ryoko, TAKEHARA Kimie, MINAGAWA Atsuko, MATSUD Nana, KOTA Masushi, AKIYAMA Naomi
	Advanced Topics in Fundamental and Integrated Nursing Science II	2	30	MURAYAMA Ryoko, TAKEHARA Kimie, MINAGAWA Atsuko, KOTA Masushi
	Seminars in Fundamental and Integrated Nursing Science I	2	60	MURAYAMA Ryoko, TAKEHARA Kimie, MINAGAWA Atsuko
	Seminars in Fundamental and Integrated Nursing Science II	2	60	MURAYAMA Ryoko, TAKEHARA Kimie, MINAGAWA Atsuko
	Master's Research in Fundamental and Integrated Nursing Science	10	300	MURAYAMA Ryoko, TAKEHARA Kimie, MINAGAWA Atsuko
Acute phase and Perioperative Period	Physical Assessment	2	30	NAKAJIMA Masayuki et al
	Advanced Topics in Medical Physiology	2	30	KAWAI Fusao et al
	Advanced Topics in Clinical Pharmacology	2	30	MIZUNO Tomohiro
	Pharmacotherapeutics	2	30	MIZUNO Tomohiro
	Advanced Topics in Critical Care Nursing	2	30	SAKAI Hirotaka
	Advanced Topics in Medical Pathognomy of Surgery	2	30	ABE Tomonobu et al
	Advanced Topics in Internal Medicine	3	45	MURAMATSU Takashi et al
	Advanced Topics in Management of Surgical Patient I	3	45	SHIOGAMA Kazuya et al
	Advanced Topics in Management of Surgical Patient II	3	45	TANABE Jun et al
	Advanced Topics in Management of Acute Patient	3	45	YAMASHITA Chizuru et al
	Advanced Topics in Home Medical Care	1	15	SAKAI Hirotaka, KAWAKAMI Tomomi, KONDO Keita, TAKAHASHI Shiori, HASHIKAWA Yuri, KAN Kiho
	Seminars in Acute and Surgical Patient Management	2	60	SAKAI Hirotaka et al
	Clinical Practicum in Home Medical Care	1	45	OSUGI Yasuhiro, KONDO Keita, SAKAI Hirotaka
	Comprehensive Clinical Trainig in Acute and Surgical Patient Treatment	19	855	NAKAMURA Tomoyuki et al
	Master's Research in Acute and Perioperative Period	5	150	HAYASHI Mutsuharu, SAKAI Hirotaka, UENISHI Norimichi, ITO Masahiro, FUNABIKI Tomohiro et al

Department	Course Titles	Credits	Hours	Instructor Name
Transplant Coordination	Bioethics in Organ and Tissue Transplantation	2	30	ASAI Tomoko, HASEGAWA Tomonori AKASHI Yuumi, SOEDA Etsuko MIYASHITA Terumi, OMIYA Kaori KOKETSU Kazue, KENMOCHI Takashi
	Principles of Organ and Tissue Transplantation	2	30	KENMOCHI Takashi, AKASHI Yuumi IWATA Mitsunaga, HAYAKAWA Motoharu, KAWAJI Takahiro, ITO Taihei, MATSUDA Yasushi FUKAMI Naohiko, TAKENAKA Masashi, OYABU Tatsunori, OKOCHI Tomo
	Advanced Topics in Transplant Coordination	2	30	ASAI Tomoko, AKASHI Yuumi KOKETSU Kazue, TASAKI Ayumi AKIBA Miki, SOEDA Etsuko MARU Mitsue, TANIGUCHI Mikiko
	« Recipient transplant coordination course »			
	Seminars in Recipient Transplant Coordinator	2	60	ASAI Tomoko, AKASHI Yuumi KENMOCHI Takashi
	Practicum in Recipient Transplant Coordination	5	150	ASAI Tomoko, AKASHI Yuumi KENMOCHI Takashi
	Master's Research in Recipient Transplant Coordination	5	150	ASAI Tomoko
	« Donor Transplant Code Net Course »			
	Seminars in Donor Coordination	2	60	ASAI Tomoko, AKASHI Yuumi KENMOCHI Takashi
	Practicum in Donor Coordination	5	150	ASAI Tomoko, AKASHI Yuumi KENMOCHI Takashi
	Master's Research in Donor Coordination	5	150	ASAI Tomoko

### 3) Rehabilitation

Department	Course Titles	Credits	Hours	Instructor Name
Activities Sciences	Advanced Topics in Rehabilitation Science Seminars	2	30	TERANISHI Toshio, SUZUKI Megumi, TANABE Shigeo, OHTSUKA Kei, TAKEDA Kotaro, WATANABE Akiyoshi, YAMADA Masayuki, TANIKAWA Hiroki, UEHARA Shintaro, NAKAJIMA Tomomi
	Seminars in Activity Science	4	120	TERANISHI Toshio, SUZUKI Megumi, OHTSUKA Kei, WATANABE Akiyoshi, YAMADA Masayuki, NAKAJIMA Tomomi
	Master's Research in Activity Science	10	300	TERANISHI Toshio, SUZUKI Megumi
Dysphagia Therapy	Advanced Topics in Dysphagia Therapy	2	30	INAMOTO Yoko, ONOGI Keiko, OTA Kikuo
	Seminars in Dysphagia Therapy	4	120	INAMOTO Yoko, ONOGI Keiko
	Master's Research in Dysphagia Therapy	10	300	INAMOTO Yoko, ONOGI Keiko
Rehabilitation Functional Morphology	Advanced Topics in Rehabilitation Functional Morphology	2	30	YAMADA Kouji, NISHII Kazuhiro, MATSUSHITA Fumio, AIZU Naoki
	Seminars in Rehabilitation Functional Morphology	4	120	YAMADA Kouji, NISHII Kazuhiro
	Master's Research in Rehabilitation Functional Morphology	10	300	YAMADA Kouji, NISHII Kazuhiro
Rehabilitation Educational Sciences	Advanced Topics in Rehabilitation Educational Science I	2	30	KANADA Yoshikiyo, SAKURAI Hiroaki, TANABE Shigeo, KOYAMA Soichiro, FUJIMURA Kenta, TAKEDA Kazuya, II Takuma, SUZUMURA Shota, YOSHIDA Taiki, OTA Hirofumi,
	Advanced Topics in Rehabilitation Educational Science II	2	30	KANADA Yoshikiyo, SAKURAI Hiroaki, TANABE Shigeo, KOYAMA Soichiro, FUJIMURA Kenta, TAKEDA Kazuya, II Takuma, SUZUMURA Shota, YOSHIDA Taiki, OTA Hirofumi,
	Seminars in Rehabilitation Educational Science	4	120	KANADA Yoshikiyo, SAKURAI Hiroaki, TANABE Shigeo, KOYAMA Soichiro, FUJIMURA Kenta, TAKEDA Kazuya, II Takuma, SUZUMURA Shota, YOSHIDA Taiki, OTA Hirofumi,
	Master's Research in Rehabilitation Educational Science	10	300	KANADA Yoshikiyo, SAKURAI Hiroaki, KOYAMA Soichiro
Rehabilitation Biomedical Engineering	Advanced Topics in Rehabilitation Science Seminars	2	30	TERANISHI Toshio, SUZUKI Megumi, TANABE Shigeo, OHTSUKA Kei, TAKEDA Kotaro, WATANABE Akiyoshi, YAMADA Masayuki, TANIKAWA Hiroki, UEHARA Shintaro, NAKAJIMA Tomomi
	Seminars in Rehabilitation Biomedical Engineering	4	120	TANABE Shigeo, TAKEDA Kotaro, TANIKAWA Hiroki, UEHARA Shintaro

	Master's Research in Rehabilitation Biomedical Engineering	10	300	TANABE Shigeo, TAKEDA, Kotaro, UEHARA Shintaro
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## Health Sciences Seminar

専攻分野 Major Field	Common (collaboration)	学年 Grade	1st・2nd year	期間 Semester	Full year
授業形態 Style	Lecture	単位 Credits	2	時間数 Hours	30
授業方法 Class Methods	face-to-face class	使用言語 Language	Japanese		
使用言語 Language	Japanese				
担当教員名 Instructor	HASEGAWA Midori				
科目概要 Course Aims	In line with the goal of providing quality health and medical care that caters to the needs of patients, residents, and local communities, the course aims to impart the latest and most advanced knowledge necessary for equipping and honing medical personnel to becoming highly specialized professionals, researchers, and educators as well as elucidating the current status of and issues related to health and medical care in Japan.				
到達目標 Objectives	1. Understand the current status of and issues related to health and medical care in Japan 2. Gain the latest and most advanced knowledge necessary for equipping and training medical workers to be highly specialized professionals, researchers, and educators				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)				担当教員 Instructor
1-8 (1st year)	1. Participation in a lecture or health science seminar will be counted as attendance of a single class (2 hours). 2. A total of two lectures will be held each year (May and December). Moreover, the special lecture of the Fujita Medical Society, Compliance Seminar, Research Ethic seminar, Research Seminar and the master's thesis presentations etc. will be counted as one class each. A total of 8 classes per year will be used for Health Science Seminars. During the two-year period, 4 Health Science Seminars, 2 Fujita Medical Society special lectures, 2 Compliance Seminars, 2 Research Ethic Seminars, 2 Research Seminars and 2 master's thesis presentations (final sum of 16 times) must be attended.				HASEGAWA Midori
9-16 (2nd year)	3. Attending other lectures on campus is counted as attendance based on the submission of the prescribed documents (i.e. application for attendance certification/transfer certification for health science seminar). (To verify such attendance, the seal of the instructor in charge of the subject is necessary.) 4. The preparation and management of the seminars will be done in cooperation with the Graduate School Academic Affairs Committee, the secretariat, and the students.				
評価法・基準 Grading Policies	Attendance of 16 classes corresponds to 100 points. However, each instance of an absence is equivalent to a deduction of 5 points. Attendance of ≤9 classes will be regarded as credits not being acquired. If, however, the absences are compensated by attending other on-campus lectures (e.g., medical sciences seminar) and the prescribed documents are submitted and certified (points transferable up to 4 times during the two-year period), the said attendance will be regarded as course attendance and added to the evaluation.				
教科書 Textbook	None	教材・参考書 Reference Book	To be studied by each student based on the topic of the lecture.		

オフィス アワー Office Hours	10 minutes after the health sciences seminar	連絡先 Contact	
準備学習 Preparation of study	Gather related information and knowledge on medicine and proactively participate in tasks. Active participation in class is highly expected of the students.	履修上の注意点 Notice for Students	

## Bioethics

専攻分野 Major Field	common subject	学年 Grade	1st year	期 間 Semester	day class: 1st semester
授業形態 Style	lecture, seminar	単位 Credits	2	時間数 Hours	30
授業方法 Class Methods	remote class	使用言語 Language	Japanese		
担当教員名 Instructor	SATO Tsutomu				
科目概要 Course Aims	<p>Bioethics is an interdisciplinary field of research on life. The Graduate School of this University is an interdisciplinary learning opportunity where graduate students from various fields can learn together about ethical issues that arise in clinical medical practice. Cultivate the ability to notice, consider, adjust, and resolve ethical issues and conflicts.</p> <p>The rapid advances in medicine and medical technology over the past few decades have led to the emergence of a new situation in the medical field with ethical issues. In other words, issues such as the definition of death, human rights, and questions about the quality of life are calling for changes in the ethical approach of conventional medical professionals, and specific decisions are being made in clinical practice. Therefore, with these specific decisions in mind, this course examines the methods and issues of clinical ethics while explaining the historical issues and basic concepts of bioethics.</p> <p>Students will deepen their understanding by setting tasks so that they can make ethical adjustments, discussing and presenting them, such as discovering and resolving ethical problems that arise between doctors, co-medical staff, and patients/families envisioned in their respective themes or specialties. In particular, graduate students in nursing are required to have the ability to coordinate problems that arise in the clinical practice of pediatric and critical (death with dignity and organ transplantation).</p>				
到達目標 Objectives	<p>The goals of this course are to</p> <ol style="list-style-type: none"> <li>1. be able to explain the basic principles of bioethics and medical ethics.</li> <li>2. be able to explain patient rights and health care provider responsibilities.</li> <li>3. be able to explain clinical ethical issues involving doctors, comedies, patients and families.</li> <li>4. be able to make ethical adjustments to find solutions to ethical problems.</li> </ol>				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1	What are bioethics and ethical adjustment			SATO Tsutomu	
2	Discovering Ethical Issues Related to Assisted Reproductive Technology (Lectures and Seminars)			SATO Tsutomu	
3	Coordination and Resolution of Ethical Issues Related to Assisted Reproductive Technology (Lectures and Seminars)			SATO Tsutomu	
4	Coordination and Resolution of Ethical Issues Related to Assisted Reproductive Technology (Presentation by Graduate Students)			SATO Tsutomu	
5	Discovering Ethical Issues Related to Intractable Diseases and Disabilities in Children (Lectures and Seminars)			SATO Tsutomu	
6	Coordination and Resolution of Ethical Issues Related to Intractable Diseases and Disabilities in Children (Lectures and Seminars)			SATO Tsutomu	
7	Coordination and Resolution of Ethical Issues Related to Intractable Diseases and Disability in Children (Presentations by Graduate Students)			SATO Tsutomu	
8	Discovering Ethical Issues Related to End-of-Life Care (Lectures and Seminars)			SATO Tsutomu	
9	Coordination and Resolution of Ethical Issues Related to End-of-Life Care (Lectures and Seminars)			SATO Tsutomu	
10	Coordination and Resolution of Ethical Issues Related to End-of-Life Care (Presentation by Graduate Students)			SATO Tsutomu	

11	Fundamentals of Clinical Ethics (Lecture)	SATO Tsutomu	
12	Use of the Four Division Tables of Clinical Ethics (1) Emergency Medicine	SATO Tsutomu	
13	Utilization of the Four-Division Table of Clinical Ethics (2) End-of-Life Care	SATO Tsutomu	
14	Utilization of the Four-Division Table of Clinical Ethics (3) Severely Handicapped Newborns	SATO Tsutomu	
15	Bioethics, Summary	SATO Tsutomu	
評価法・基準 Grading Policies	Comprehensively evaluate class attitudes and presentation materials. Evaluation criteria are class attitudes and reports.		
教科書 Textbook	Will be introduced in the class.	教材・参考書 Reference Book	
オフィス アワー Office Hour		連絡先 Contact	
準備学習 Preparation of study	Students are expected to read the documents for 30 minutes before class.	履修上の注意点 Notice for Students	To make a presentation, you will need a laptop with PowerPoint installed.

## Introduction to Health Sciences

専攻分野 Major Field	Common	学年 Grade	1st year	期間 Semester	night class: 1st semester
授業形態 Style	Lecture / Seminar	単位 Credits	2	時間数 Hours	30
授業方法 Class Methods	Remote class	使用言語 Language	Japanese		
担当教員名 Instructor	HAYASHI Mutsuharu, HASEGAWA Midori, SEKO Rumi, ONOGI Keiko				
科目概要 Course Aims	Health is an important resource in everyday life in both a physical and mental sense, and by setting voluntary social goals, we are able to control it by oneself and make an effort to acquire it. We learn basic knowledge about epidemiology, the origin, symptoms, etc. regarding each disease that threatens health through lectures, while also deepening understanding through group work and group discussion.				
到達目標 Objectives	<ol style="list-style-type: none"> <li>1. We can explain basic knowledge about human health maintenance, and how to increase this.</li> <li>2. We can provide a summary of each disease briefly.</li> <li>3. We can understand and explain the clinical conditions of the following diseases: cardiovascular and cerebrovascular disorders, heart failure, hypertension, metabolic syndrome, chronic kidney disease, their associations with lifestyle choices, and several infections.</li> </ol>				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1	Epidemiology, etiology, symptoms, etc. of hypertension			HAYASHI Mutsuharu	
2	Epidemiology, etiology, symptoms, etc. of Ischemic heart disease			HAYASHI Mutsuharu	
3	Epidemiology, etiology, symptoms, etc. of Heart failure			HAYASHI Mutsuharu	
4	Epidemiology, etiology, symptoms, etc. of Clinical kidney disease			HASEGAWA Midori	
5	Epidemiology, etiology, symptoms, etc. of Metabolic syndrome			HAYASHI Mutsuharu	
6	Epidemiology, etiology, symptoms, etc. of Influenza			SEKO Rumi	
7	Epidemiology, etiology, symptoms, etc. of tuberculosis			SEKO Rumi	
8	Epidemiology, etiology, symptoms, etc. of Black plague			SEKO Rumi	
9	Epidemiology, etiology, symptoms, etc. of Leprosy			SEKO Rumi	
10	Epidemiology, etiology, symptoms, etc. of Diabetes			HAYASHI Mutsuharu	
11	Epidemiology, etiology, symptoms, etc. of Hepatitis			HAYASHI Mutsuharu	
12	Epidemiology, etiology, symptoms, etc. of Respiratory disease			HAYASHI Mutsuharu	
13	Epidemiology, etiology, symptoms, etc. of Cerebrovascular disorder			ONOGI Keiko	
14	Epidemiology, etiology, symptoms, etc. of Digestive disorders			HAYASHI Mutsuharu	
15	Epidemiology, etiology, symptoms, etc. of dyslipidemia and hyperuricemia			HAYASHI Mutsuharu	
評価法・基準 Grading Policies	A rating system: We evaluate it on a periodical test (100%). We evaluate arrival target 1-3. Feedback: We show a model answer after the periodical test.				
教科書 Textbook	Lecture materials will be distributed on slide.	教材・参考書 Reference Book	Reference materials and textbooks will be introduced as needed..		

オフィス アワー Office Hour	10 minutes after the lecture We accept the question by the email.	連絡先 Contact	
準備学習 Preparation of study	Students are expected to review around 30 minutes. Questions and comments will be accepted as appropriate during the class, and students are encouraged to participate actively.	履修上の注意点 Notice for Students	It is practical lecture contents, so students are expected to attend and concentrate on it on enough preparations.

## Introduction to Health Care Sciences and Practices

専攻分野 Major Field	Common	学年 Grade	1st year	期 間 Semester	night class:2nd semester
授業形態 Style	Lecture / Seminar	単位 Credits	2	時間数 Hours	30
授業方法 Class Methods	Remote class	使用言語 Language	Japanese		
担当教員名 Instructor	SUGAMA Junko, KOHTA Masushi,				
科目概要 Course Aims	This class teaches academic writing to logically communicate the phenomenon of health care and medical services to other professions. Also, students learn statistics as basis for recognizing and analyzing the phenomenon of health care and medical services as evidence and solving problems. General discussion about the lecture is conducted.				
到達目標 Objectives	In this class, students will learn to: Identify the parts of a paragraph structure Explain the statistical analysis for research data				
回数 Chapters	授業計画(各回のテーマ) Course Schedule			担当教員 Instructor	
1	Understanding types of variables in statistic. Creating tables and figures in health science			KOHTA Masushi	
2	Sample size calculations			KOHTA Masushi	
3	Understanding P-Values and statistical significance			KOHTA Masushi	
4	Comparison between groups: Parametric statistics			KOHTA Masushi	
5	Comparison between groups: Nonparametric statistics			KOHTA Masushi	
6	Multivariate analysis			KOHTA Masushi	
7	Multiple comparison procedure			KOHTA Masushi	
8	Paragraph structure 1			SUGAMA Junko	
9	Paragraph structure 2			SUGAMA Junko	
10	Unity and coherence 1			SUGAMA Junko	
11	Unity and coherence 2			SUGAMA Junko	
12	Using outside sources 1			SUGAMA Junko	
13	Using outside sources 2			SUGAMA Junko	
14	From paragraph to essay 1			SUGAMA Junko	
15	From paragraph to essay 2			SUGAMA Junko	
評価法・基準 Grading Policies	<p>Criteria for the chapter 1 to 7 is as follows;</p> <p>1) Formative evaluation To participate general discussion and Q&amp;A during lectures (to take initiative in asking question and/or answering to the questions regarding statistics) (50%)</p> <p>2) Summative evaluation To submit reports on medical statistics (50%)</p> <p>Criteria for the chapter 9 to 15 is as follows; -Presentation and work: 100%</p>				

	Your overall grade in the class will be decided based on all the classes achievements. Feedback of your assignments will be explained orally in class and after class.		
教科書 Textbook	Alice Oshima. Longman Academic Writing Series 4, ESSAYS, 5 <sup>th</sup> edition, PERSON	教材・参考書 Reference Book	中原治(2022).基礎から学ぶ統計学, 羊土社
オフィス アワー Office Hour	30 minutes after the class If you have questions, please contact us.	連絡先 Contact	
準備学習 Preparation of study	The students are expected to read the documents to consider about own study and to be able to discuss it actively at the classes. Students need one hour each for preparation and review.	履修上の注意点 Notice for Students	At the time of presentation, you should distribute a document beforehand.

# Nursing Research Methodology

専攻分野 Major Field	Common	学年 Grade	1st year	期 間 Semester	night class: 1st semester
授業形態 Style	Lecture / Seminar	単位 Credits	2	時間数 Hours	30
授業方法 Class Methods	Remote class or onsite class	使用言語 Language	Japanese		
使用言語 Language	Japanese				
担当教員名 Instructor	SUGAMA Junko, MURAYAMA Ryoko, MIURA Yuka, MIYAMOTO Miho, KOHTA Masushi, SHIMIZU Mikiko				
科目概要 Course Aims	This course deals with basic research methods, research process, and ethical issues in nursing research. It also aims to enhance students' skills and knowledge to conduct nursing research. In this course, critiques of previous researches helps students to understand methodology related to nursing research deeply, and to utilize results showed in previous researches for nursing practice. Students conduct discussions on topics covered during lectures.				
到達目標 Objectives	The goals of this course are to be able to: - explain the characteristics and the significance of nursing research, - explain logically the research process and deductive and inductive reasoning for research, - explain about common research designs, - understand ethical issues and procedures for study participants in nursing research, - utilize literature searches and critique studies, - explain how to utilize results of previous researches for nursing practice.				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1	Introduction to Nursing Research: Significance of Research in Evidence-Based Nursing Practice in Nursing Research			SUGAMA Junko	
2	Ethics in Nursing Research, E-learning (APRIN)			MIURA Yuka	
3	Structuring clinical question into research question: Literature utilization in clinical practice			MURAYAMA Ryoko & MIURA Yuka	
4	Structuring clinical questions into research question: Organize the main points of the literature review results			MURAYAMA Ryoko & MIURA Yuka	
5	Structuring clinical questions into research question: Create a conceptual diagram			MURAYAMA Ryoko & MIURA Yuka	
6	Design for nursing research; Qualitative designs and approaches			MIYAMOTO Miho	
7-8	Design for nursing research; Quantitative research design			MIURA Yuka	
9	Research control in quantitative research			SUGAMA Junko	
10	Measurement and data collection; Questionnaires and interviews			KOHTA Masushi	
11	Biophysiologic and other data collection methods			KOHTA Masushi	
12	The analysis of research data; descriptive statistics			KOHTA Masushi	
13	The analysis of research data; Inferential statistics			KOHTA Masushi	
14	Communication in the research process; Writing a research report			SHIMIZU Mikiko	
15	Communication in the research process; evaluating research reports			SHIMIZU Mikiko	

<p>評価法・基準 Grading Policies</p>	<p>Your overall grade in the class will be decided based on the following: -Presentation: 50% -Reports :50% Feedback of your assignments will be explained orally in class and after class.</p>		
<p>教科書 Textbook</p>	<p>黒田裕子(2017):黒田裕子の看護研究 step by step 第5版、医学書院</p>	<p>教材・参考書 Reference Book</p>	<p>1) Polit,D. F. &amp; Beck,C. T. (2004): Nursing research, Principles and Methods(7<sup>th</sup> ed. ).／近藤潤子監訳 (2010):看護研究 原理と方法 第2 版、医学書院. 2) 中山和裕(2021):看護情報学 第3 版 系統看護学講座別巻、医学書院</p>
<p>オフィス アワー Office Hour</p>	<p>30 minutes after the class If you have questions, please contact us.</p>	<p>連絡先 Contact</p>	
<p>準備学習 Preparation of study</p>	<p>The students are expected to read the documents to consider about own study and to be able to discuss it actively at the classes. Students need one hour each for preparation and review.</p>	<p>履修上の注意点 Notice for Students</p>	<p>At the time of presentation, you should distribute a document beforehand. If there are more than 10 students, the class will be conducted in person.</p>

## Nursing Theory

専攻分野 Major Field	Common	学年 Grade	1st year	期間 Semester	night class:2nd semester
授業形態 Style	Lecture / Seminar	単位 Credits	2	時間数 Hours	30
授業方法 Class Methods	Remote class	使用言語 Language	Japanese		
担当教員名 Instructor	MINAGAWA Atsuko, MIYAMOTO Miho, KAJIMA Noriko				
科目概要 Course Aims	<p>This course provides an overview of development process of nursing theories. You can obtain your knowledge deeper on the characteristics of each nursing theories the relationship with practice.</p> <p>In addition, you examine nursing theories that are appropriate for explaining the nursing phenomena in your specialty area. You can understand the application and effects through our own nursing experiences or cases.</p> <p>Additionally, discussions will be held during lectures to deepen understanding of nursing theory.</p>				
到達目標 Objectives	<p>The goals of this course are to</p> <ul style="list-style-type: none"> <li>-be able to understand the background of the historical development of nursing theories,</li> <li>-be able to materialize and explain the characteristics of nursing theories in relation to social changes,</li> <li>-be able to explain logically the relationship between nursing theories and phenomena,</li> <li>-be able to understand the strengths and limitations of various nursing theories,</li> <li>-be able to explain logically how to use each theory in nursing practice and its effects.</li> </ul>				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1	Introduction: Significance of nursing theory in nursing			MINAGAWA Atsuko MIYAMOTO Miho OKAJIMA Noriko	
2	Nursing theory and practice, historical developments and today's challenges			MINAGAWA Atsuko	
3	Historical background, social situation and the actual situation of nursing where nursing theory was created			MINAGAWA Atsuko	
4-5	Significance of using in nursing practice: middle-range theory			MIYAMOTO Miho	
6	Significance of using in nursing practice: Case study using middle-range theory			MIYAMOTO Miho	
7-9	Positioning of nursing theory in the development of nursing: Conceptual model and grand nursing theory			OKAJIMA Noriko	
10-15	<p>To verify the effect of nursing theory on nursing phenomena through our own nursing experiences or cases</p> <p>① Application of nursing theory on nursing phenomena in your specialty area.</p> <p>② Examination and evaluation of application of nursing theory in nursing practice</p>			MINAGAWA Atsuko MIYAMOTO Miho OKAJIMA Noriko	
評価法・基準 Grading Policies	<p>Your grade will be evaluated by 40% proactive participation though active comment, 30% presentation and 30% assignment report (the contents of the selected nursing theory should be examined and evaluated taking into account my opinion).</p> <p>Feedback of your presentation will be provided in this class.</p>				

<p>教科書 Textbook</p>	<p>Edited by Mayumi Tsutsui: Kangorironka no gyouseki to rironhyouka(3<sup>th</sup> ed)., IgakuSyoin.</p>	<p>教材・参考書 Reference Book</p>	<p>Julia B. George.: Nursing Theories The base for professional nursing practice(6<sup>th</sup> ed).PEARSON.</p>
<p>オフィス アワー Office Hour</p>	<p>MINAGAWA Atsuko: 30 minutes after the class, at 603, Fujita Kaikan MIYAMOTO Miho: 30 minutes after the class, at 602, building 3 OKAJIMA Noriko: 30 minutes after the class, at 629, building 3 We accept the question by the email.</p>	<p>連絡先 Contact</p>	
<p>準備学習 Preparation of study</p>	<p>Students are expected to self- learning over 1 hour to read literature and materials and to summarize their thoughts before class. After the lecture, students review the lesson content for about an hour using the handouts and summarize it in their notes.</p>	<p>履修上の注意点 Notice for Students</p>	<p>Students actively participate in lectures and seminars.</p>

## Consultation Theory

専攻分野 Major Field	Common	学年 Grade	1st year	期 間 Semester	2nd semester
授業形態 Style	Lecture / Seminar / Group work	単位 Credits	2	時間数 Hours	30
授業方法 Class Methods	Remote class	使用言語 Language	Japanese		
担当教員名 Instructor	ITO Sakurako				
科目概要 Course Aims	<p>This course teaches the theories and methodologies of consultation for supporting clinical and community healthcare providers to solve their problems effectively and practically.</p> <p>This course introduces the psychological characteristics of interpersonal and supportive relationships in consultation. The problems likely to arise in consultation, and the attitudes and techniques necessary to overcome those problems, such as self-awareness and counseling mind, are introduced through seminars and group works. The solution-focused approach, empowerment techniques, and supportive attitudes, which are useful to support others in solving their problems, would also be introduced through practical exercises and discussions during lectures.</p>				
到達目標 Objectives	<p>The goals of this course are to</p> <ul style="list-style-type: none"> <li>- be able to explain the basic concepts and principles of consultation,</li> <li>- be able to understand and explain the methodologies of advice, guidance, and coordination inside and outside of the medical team,</li> <li>- be able to understand the problems likely to occur during the consultation and their solutions,</li> <li>- be able to acquire the knowledge necessary to conduct effective consultation.</li> </ul>				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1-4	Consultation: Consultant and Consultee. Roles and required ability.			ITO Sakurako	
5-6	Knowledge required for consulting and understanding consultees: Counseling mind.			ITO Sakurako	
7-8	Basic knowledge and skills required for effective consultation: Micro-Counseling (Attending behavior, reflection, summarization, and focusing)			ITO Sakurako	
9	Effective communication and prevention of miscommunication			ITO Sakurako	
10-11	Multidimensional and comprehensive perspectives of consultation: Individual presentation on the research paper.			ITO Sakurako	
12-13	Collaborative problem-solving: Tailor-made support for resource-based construction of solutions.			ITO Sakurako	
14	Practical knowledge and skills for effective problem-solving: Solution-focused approach and the essence of solution building.			ITO Sakurako	
15	Supportive attitudes toward problem-solving: Empowerment of consultees.			ITO Sakurako	
評価法・基準 Grading policies	<p>The overall grade for this course is evaluated based on the performance of the research paper and its presentation 40%, two short reports 30%, and active participation in the class 30%. Feedback on reports and presentations will be provided in the class.</p>				
教科書 Textbook	Handouts are provided in the class.		教材・参考書 Reference Book	To be introduced in the class.	
オフィス アワー Office Hour	ITO Sakurako: Thursday 12:00-12:50 or by appt. At Rm 408, Building 9.		連絡先 Contact		

<p>準備学習 Preparation of study</p>	<p>For the preparation, read the handouts and do your homework when assigned (for 30 mins). Then, for the review, write the main points, new learnings, and questions (for 30 mins).</p>	<p>履修上の注意点 Notice for Students</p>	<p>Use MS PowerPoint slides for the presentation. Active participation, questions, and comments are highly encouraged and welcomed in this class.</p>
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## Interprofessional Health Care

専攻分野 Major Field	Common	学年 Grade	1st year	期 間 Semester	night class:1st semester
授業形態 Style	Lecture / Seminar / Practice	単位 Credits	1	時間数 Hours	15
授業方法 Class Methods	Remote class	使用言語 Language	Japanese		
担当教員名 Instructor	SAKAI Hirotaka				
科目概要 Course Aims	Practicing the team approach is required to improve problem solving in medical care. We provide lectures on knowledge and techniques regarding the team approach in medical care. Increase the ability for problem solving through group work and group discussions regarding why "the team approach in medical care" is necessary for "a good medical care person." enabling leading figures in team approaches in medical care to operate effectively and solve problems.				
到達目標 Objectives	<p>The goals of this course are to:</p> <ul style="list-style-type: none"> <li>- be able to briefly explain something through the team approach in medical care.</li> <li>- be able to explain something with the element constituting team approach in medical care.</li> <li>- be able to explain the importance of communication in the team approach in medical care.</li> <li>- be able to provide a simple explanation of the team approach in medical care in the healthcare settings.</li> </ul>				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1	Fundamentals of Team-Based Healthcare and Role Distribution			SAKAI Hirotaka	
2	Communication and Leadership in Team-Based Healthcare			SAKAI Hirotaka	
3	Case Analysis of Interprofessional Collaboration in Practice			SAKAI Hirotaka	
4	Team-Based Healthcare Including Patients and Families			SAKAI Hirotaka	
5	The Role of Team-Based Healthcare in Decision-Making			SAKAI Hirotaka	
6	Team-Based Healthcare in Acute Care Settings			SAKAI Hirotaka	
7	Team-Based Healthcare in Home and Community Medicine			SAKAI Hirotaka	
8	The Evolving Roles of Healthcare Professionals and Specialists in Team-Based Care			SAKAI Hirotaka	
評価法・基準 Grading Policies	<p>A rating system: a periodical test (100%).</p> <p>Criteria: We make questions for a question to measure an arrival degree of arrival target 1-4 in the regular examination.</p> <p>Feedback: After grading, feedback will be provided, including the grading criteria, frequently missed questions, and model answers.</p>				
教科書 Text Book	Will be introduced in the class.		教材・参考書 Reference Book	1) 細田満和子:「チーム医療」とは何か日本看護協会出版会	
オフィス アワー Office Hour	SAKAI Hirotaka: Building 3-6F-638 Thursday (16:00~17:00)		連絡先 Contact		

<p>準備学習 Preparation of study</p>	<p>A pre-assigned task will be provided for each lecture. Students are expected to independently research and study the task in advance, summarize their opinions and insights, and organize any related thoughts or questions. During the lecture, they will engage in group discussions based on their preparation, deepen their understanding through opinion exchanges, and present their findings.</p>	<p>履修上の注意点 Notice for Students</p>	<p>1) Because each lecture adopts seminar procedures, make an aggressive comment. 2) We choose one of the contents in the lecture and we give presentation and exchange opinions.</p>
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## Advanced Topics in Medical Safety

専攻分野 Major Field	Common	学年 Grade	1st year	期 間 Semester	1st semester
授業形態 Style	Lecture / Seminar	単位 Credits	1	時間数 Hours	15
授業方法 Class Methods	In-person class	使用言語 Language	Japanese		
担当教員名 Instructor	SAKAI Hiroataka, MIYASHITA Terumi				
科目概要 Course Aims	It is becoming more common for healthcare professionals to develop abilities and skills to prevent medical accidents and provide safe and quality medical care. This course deals with the knowledge to predict and avoid any medical accidents of clinical practices, discuss what medical safety is, the principles thereof, and deepen their understanding through group work and group discussions.				
到達目標 Objectives	The goals of this course are to 1. Describe and explain the basic characteristics of humans logically. 2. Describe and explain the relationship between medical accidents and human errors. 3. Evaluate analyze methods of accident cases. 4. Describe and explain how to prevent medical accidents.				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)				担当教員 Instructor
1	Medical practice and medical accidents: accidents and negligence, medical contracts. Medical ethics theory and case studies.				MIYASHITA Terumi
2	Team medical care and risk communication.				MIYASHITA Terumi
3	Medical safety measures to take advantage of information from clinical practice.				MIYASHITA Terumi
4	Analysis method for medical accident cases.				MIYASHITA Terumi
5	Organization and Medical Safety Management				SAKAI Hiroataka
6	Individuals and Medical Safety Management				SKAI Hiroataka
7	Patients, Families and Medical Safety Management				SKAI Hiroataka
8	Specific Medical Safety Management				SAKAI Hiroataka
評価法・基準 Grading Policies	Your overall grade in the class will be decided based on the following: -TBL:30% -Term-end examination: 70% Feedback: If you do a TBL, state the correct answer and explain.				
教科書 Textbook	There is no specific textbook. Necessary materials are prepared by instructor.	教材・参考書 Reference Book	1) 嶋森好子他:医療安全とリスクマネジメント、ヌーヴェルヒロカラ 2) 松下由美子他:医療安全、メディカ出版		
オフィス アワー Office Hours	SAKAI,MIYASHITA : 16 : 00-17 : 00, Monday and Friday at 638,Building 3	連絡先 Contacts			
準備学習 Preparation of study	Students are expected to read the references related to the syllabus for about 30 minutes before class.	履修上の注意点 Notice for Students	This course will be taught in Japanese. 1. Remember the minimum knowledge of medical safety. Think about what you want to learn or understand in this subject. 2. Bring the knowledge that you have learned back to the medical practice and use it to develop questions and answers in the lecture.		

## Rehabilitation Medicine

専攻分野 Major Field	Common	学年 Grade	1st year	期間 Semester	night class:1st semester
授業形態 Style	Lecture / Seminar	単位 Credits	2	時間数 Hours	30
授業方法 Class Methods	Remote class	使用言語 Language	Japanese (partly in English)		
担当教員名 Instructor	OTAKA Yohei, SHIBATA Seiko, HIRANO Satoshi, MAEDA Hirofumi, TOHYAMA Takamichi, MATSUURA Hirotaka, MATSUURA Daisuke				
科目概要 Course Aims	This course lectures on the fundamental concepts of rehabilitation medicine for activity disorders and examines intervention approaches for various conditions in rehabilitation medicine. Through discussions from the perspective of therapeutic science, students acquire basic knowledge to verify the evidence.				
到達目標 Objectives	<p>The goals of this course are to</p> <ul style="list-style-type: none"> <li>• have the concept of rehabilitation medicine</li> <li>• understand ability and limitation in humans</li> <li>• know structure for impairment, disability, and handicap</li> <li>• explain rehabilitation intervention in each disease</li> <li>• get an evidence for rehabilitation</li> </ul>				
回数 Chapters	授業計画 (各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1	Principles of rehabilitation medicine			OTAKA Yohei	
2-3	Dysphagia			SHIBATA Seiko	
4-5	Bone and joint diseases			MATSUURA Hirotaka	
6-7	Rehabilitation robotics			HIRANO Satoshi	
8-9	Reorganization of the neural system after spinal cord injury			TOHYAMA Takamichi	
10-11	Spasticity			MAEDA Hirofumi	
12-13	Rehabilitation statistics			HIRANO Satoshi	
14-15	Kinematics			MATSUURA Daisuke	
評価法・基準 Grading Policies	Your overall grade in the class will be decided based on the aggressiveness and attitude.				
教科書 Textbook	None. Regimen will be provided in the class.		教材・参考書 Reference Book	Statistics guidebook for rehabilitation staff (Ishiyaku Publishers, Inc.)	
オフィス アワー Office Hour	After class		連絡先 Contact		
準備学習 Preparation of study	Students are expected to read the documents for 30 minutes before class.		履修上の注意点 Notice for Students	Need to know the operation for word processor and presentation software.	

## Introduction to Rehabilitation Sciences

専攻分野 Major Field	Common	学年 Grade	1st year	期間 Semester	night class:1st semester
授業形態 Style	Lecture / Seminar	単位 Credits	2	時間数 Hours	30
授業方法 Class Methods	Remote class	使用言語 Language	Japanese (partly in English)		
担当教員名 Instructor	KANADA Yoshikiyo, TERANISHI Toshio, SUZUKI Megumi, INAMOTO Yoko, TAKEDA Kotaro, TSUZUKI Akira, TANIKAWA Hiroki				
科目概要 Course Aims	Rehabilitation science is an academic discipline for regaining the right to live same as healthy people for a person with various disabilities. This academic discipline includes four fields: medical rehabilitation, social rehabilitation, educational rehabilitation, and vocational rehabilitation. These four fields are working together. In this seminar, we are going to teach the process of assessing impairment, disability, handicap, problem extraction, and analyzing the causes. We are also going to discuss how to set treatment goals, plan and practice treatment programs based on the evaluation, and scientifically prove these processes.				
到達目標 Objectives	<p>Explain the following themes, which are the core subjects of rehabilitation science.</p> <ol style="list-style-type: none"> <li>1. Kinesiology, evaluation, and motor function reconstruction</li> <li>2. Mechanism of swallowing and pathophysiology of swallowing disorders</li> <li>3. Rehabilitation for individuals with cognitive dysfunction</li> <li>4. Impairments, Disabilities, and Handicaps.</li> </ol>				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)				担当教員 Instructor
1-6	Scientific approach for rehabilitation research				TAKEDA Kotaro
7	Physical therapy treatment				TANIKAWA Hiroki
8	Kinesiology and functional evaluation				TANIKAWA Hiroki
9-10	Community based rehabilitation				TSUZUKI Akira
11	Occupational therapy treatment				SUZUKI Megumi
12	Overview of swallowing disorder				INAMOTO Yoko
13	Evaluation in Rehabilitation				KANADA Yoshikiyo
14	Reconstruction of motor function				KANADA Yoshikiyo
15	Introduction to Physical Therapy				TERANISHI Toshio
評価法・基準 Grading Policies	<p>- Grading will be described based on students' attitude (30%), Reports, seminar materials and oral examinations (70%).</p> <p>- In order to measure the level of comprehension of the goals, assign tasks such as reports, material creation, etc., oral examinations for each.</p>				
教科書 Textbook	None.		教材・参考書 Reference Book	None.	

<p>オフィス アワー Office Hour</p>	<p>KANADA Yoshikiyo Building 8-7F-709 At any time TERANISHI Toshio Building 8-7F-704 Monday 8:00-8:30, 21:10-21:30 SUZUKI Megumi Building 8-7F-706 18:00-21:00 on my lecture day INAMOTO Yoko Building 8-7F-703 18:00-21:00 on my lecture day TAKEDA Kotaro Nanakuri Memorial Hospital In the day of lecture TSUZUKI Akira Building 8-7F-715 18:00-21:00 on my lecture day. TANIKAWA Hiroki Building 8-7F-725 18:00-21:00 on my lecture day.</p>	<p>連絡先 Contact</p>	
<p>準備学習 Preparation of study</p>	<p>Preparatory study of the specified theme for about 1 hour. In addition, perform an extended review for about one hour as the lecture progresses. Be interested in everything and learn with a positive attitude.</p>	<p>履修上の注意点 Notice for Students</p>	<p>To make notebooks, you can use laptop computer. No things to prepare unless specified.</p>

## Advanced Topics in Exercise Physiology

専攻分野 Major Field	Common	学年 Grade	1st year	期 間 Semester	2nd semester
授業形態 Style	Lecture / Seminar	単位 Credits	2	時間数 Hours	30
授業方法 Class Methods	Remote class	使用言語 Language	Japanese (partly in English)		
使用言語 Language	Japanese (partly in English)				
担当教員名 Instructor	TERANISHI Toshio, YAMADA Kouji, OHTSUKA Kei, TAKEDA Kotaro, AIZU Naoki, UEHARA Shintaro				
科目概要 Course Aims	<p>The lectures cover the morphological elements and functions of the muscular and nervous systems, as well as purposeful exercise, action and movement performance, and motor learning. We will discuss the musculoskeletal system for the body to move by itself, the nervous system for learning and moving efficiently, brain functions related to movement, anatomy of the musculoskeletal system, neurophysiological mechanisms of coordination and integration of the nervous system, and motor learning.</p> <p>In addition, we explain and discuss the ecological concept, not only the body and the central nervous system create movement and work to the environment, but also the three parties self-organize (perceptual circulation) the movement for performing actions and actions depending on each other.</p>				
到達目標 Objectives	<p>The goals of this course are to be able to</p> <ol style="list-style-type: none"> <li>1. Explain a movement from the view of the musculoskeletal system.</li> <li>2. Explain the brain functions related to movement.</li> <li>3. Explain the circulation of movement and perception from the view of embryology and developmental kinematics.</li> <li>4. Explain the normal gait from the view of kinematics and kinetics.</li> <li>5. Explain the movement-related spinal nerve mechanisms.</li> <li>6. Explain the neural plasticity underlying motor learning.</li> </ol>				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)				担当教員 Instructor
1	Human structure and motor development				TARANISHI Toshio
2	Practice, motor skills and dexterity				TARANISHI Toshio
3	Anatomy of the locomotorium: muscle groups of the lower limbs, running of nerves				YAMADA Kouji
4	Anatomy of the locomotorium: Upper limb muscle groups, nerve running				YAMADA Kouji
5	Anatomy of the locomotorium: Trunk muscles				YAMADA Kouji
6	Kinematics of normal gait				OHTSUKA Kei
7	Kinetics of normal gait				OHTSUKA Kei
8	Motor-related brain functions 1 Structure and function of the brain				TAKEDA Kotaro
9	Motor-related brain functions 2 Primary sensorimotor areas				TAKEDA Kotaro
10	Motor-related brain functions 3 Premotor cortex and supplementary motor area				TAKEDA Kotaro
11	Motor-related brain functions 4 Subcortical motor related areas				TAKEDA Kotaro
12	Mechanisms of muscle contraction				AIZU Naoki

13	Muscle growth and atrophy, fatigue due to exercise	AIZU Naoki
14	Neural plasticity and motor learning 1	UEHARA Shintaro
15	Neural plasticity and motor learning 2	UEHARA Shintaro
評価法・基準 Grading Policies	Grading will be described based on students' attitude (30%), reports, seminar materials and oral examinations (70%). To measure the level of comprehension of the goals, tasks such as preparing reports or documents, or oral examinations will be assigned.	
教科書 Textbook	None	<p>教材・参考書 Reference Book</p> <p>(TERANISHI) 奈良勲, 岡西哲夫(編). 筋力. 医歯薬出版. 山田茂, 福永哲夫. 骨格筋 運動による機能と形態の変化. 株式会社ナップ, 1999. 三木成夫. ヒトのからだ. うぶすな書店, 1997. ニコライ・A・ベルンシュタイン(工藤和俊訳, 佐々木正人監訳). デクステリティ、巧みさとその発達. 金子書房, 2003. 佐々木正人. アフォーダンス. 岩波書店, 1994.</p> <p>(YAMADA) 長澤純一, 他. 運動生理学の基礎と応用. 株式会社ナップ, 2016. 小田伸午, 他. ヒトの動き百話. 市村出版, 2011. 中里浩一, 他. 1から学ぶスポーツ生理、学株式会社ナップ, 2012.</p> <p>(OHTSUKA) 矢部京之助, 他. 入門運動神経生理学. 市村出版, 2003. マーク・L・ラタッシュ. 運動神経生理学講義. 大修館書店, 2002. 中澤公孝. 歩行のニューロリハビリテーション - 歩行の再獲得をめざした理論と臨床. 杏林書院, 2010.</p> <p>(AIZU) 玉木彰. リハビリテーション運動生理学. MEDICAL VIEW, 2016</p>
オフィス アワー Office Hour	<p>TERANISHI Toshio Building 8-7F-704 Monday 8:00-8:30, 21:10-21:30</p> <p>YAMADA Kouji Building 8-7F-707 In the day of lecture 18:00-19:30</p> <p>OHTSUKA Kei In the day of lecture</p> <p>TAKEDA Kotaro Nanakuri Memorial Hospital In the day of lecture</p> <p>AIZU Naoki Building 8-7F-602 In the day of lecture</p> <p>UEHARA Shintaro Building 8-7F-711 In the day of lecture</p>	<p>連絡先 Contact</p>

<p>準備学習 Preparation of study</p>	<p>Students need to pre-study the specified theme for about 1 hour. In addition, they need to review the covered contents for about one hour. Students should have a great interest in all the contents and participate with a positive attitude.</p>	<p>履修上の注意 点 Notice for Students</p>	<p>Students can take a note using a notebook or a laptop computer. Nothing needs to be brought unless specified.</p>
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## Clinical Education

専攻分野 Major Field	Common	学年 Grade	1st year	期間 Semester	1st semester
授業形態 Style	Lecture	単位 Credits	2	時間数 Hours	30
授業方法 Class Methods	Remote class	使用言語 Language	Japanese		
使用言語 Language	Japanese				
担当教員名 Instructor	MURAOKA Chikusa				
科目概要 Course Aims	<p>In recent years, the field of education has seen two streams emerge: (1) education focused on teacher training, and (2) a broader, more academic study of education. This course adopts the latter perspective, covering such topics as "Learning and its application in Higher Education," "The Essence of Education", and "Educational Practices in Healthcare Professions". The course will cover fundamental concepts in education such as instructional design (methodologies for delivering high-quality education) and educational theories. The course will also cover the practical methodologies such as experiential learning and cooperative learning. Lectures and exercises will be conducted to facilitate learning in these areas.</p> <p>Through completing this course, we aim to enhance the educational capabilities of healthcare professionals who work with students and patients. Interactive classes will be conducted with using tools such as laptop computers and tablet devices. During each class session, students use the Teams breakout feature to engage in discussions and deliberations in small groups.</p>				
到達目標 Objectives	<p>The goals of this course are to be able to</p> <ol style="list-style-type: none"> <li>1. explain basic knowledge and theories related to education and learning.</li> <li>2. give examples of methods to elicit spontaneous learning from learners.</li> <li>3. practice learning based on experiential learning and cooperative learning methods.</li> <li>4. plan education based on the theory of instructional design.</li> </ol>				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)				担当教員 Instructor
1	<p>"The Importance of Education Provided by Healthcare Professionals"</p> <ul style="list-style-type: none"> <li>• Describe the basic structure of a this class..</li> <li>• Outline historical trends in education in Japan and globally.</li> <li>• Explain , in their own words, why an educational perspective is necessary for healthcare professionals.</li> </ul>				MURAOKA Chikusa
2	<p>"The Structure of Healthcare Professional Education and Instructional Design"</p> <ul style="list-style-type: none"> <li>• Outline the three university policies and the model core curriculum.</li> <li>• Explain the three core elements of Instructional Design (ID).</li> </ul>				MURAOKA Chikusa
3	<p>"Learning and Learning Objectives"</p> <ul style="list-style-type: none"> <li>• Explain the components and classifications of learning objectives.</li> <li>• Explain the elements necessary for defining learning objectives.</li> </ul>				MURAOKA Chikusa
4	<p>"Learning Objectives and Assessment"</p> <ul style="list-style-type: none"> <li>• Explain the difference between learner assessment and program evaluation</li> <li>• Explain the differences among diagnostic, formative, and summative assessments</li> <li>• Provide examples of assessment methods used to evaluate learning.</li> </ul>				MURAOKA Chikusa
5	<p>"Learning Motivation"</p> <ul style="list-style-type: none"> <li>• Explain the concept of learning motivation.</li> <li>• Explain each component of the ARCS model (Attention, Relevance, Confidence, Satisfaction) using specific examples.</li> </ul>				MURAOKA Chikusa
6	<p>"Characteristics of Learning Styles and Approaches"</p> <ul style="list-style-type: none"> <li>• Explain the characteristics of different learning approaches and compare them.</li> <li>• Provide an overview of andragogy and its key principles.</li> </ul>				MURAOKA Chikusa

7	“Development and Patient Education” ·Explain the concept and purpose of patient education. ·Examine patient education approaches that take developmental stages into account.	MURAOKA Chikusa
8	“Simulation” ·Explain the characteristics and educational value of simulation-based learning.	MURAOKA Chikusa
9	“Instructional Design” ·Select learning content aligned with stated learning objectives. ·Select teaching methods appropriate to the learning content and objectives	MURAOKA Chikusa
10	“Facilitation, Ethics, and Consideration for Educators” ·Explain facilitation techniques that promote active learning. ·Examine ethical issues and professional responsibilities required of educators.	MURAOKA Chikusa
11	" Application to Clinical Education (1)" Designing Lessons Based on Instructional Design ·Design a lesson based on instructional design principles. ·Develop learning objectives, content, and teaching methods.	MURAOKA Chikusa
12	" Application to Clinical Education (2)" Designing Lessons Based on Instructional Design ·Design a lesson based on instructional design principles. ·Develop learning objectives, content, and teaching methods.	MURAOKA Chikusa
13	" Application to Clinical Education (3)" Designing Lessons Based on Instructional Design ·Design a lesson based on instructional design principles. ·Develop learning objectives, content, and teaching methods.	MURAOKA Chikusa
14	" Application to Clinical Education (4)" Microteaching Based on Instructional Design ·Implement a short mock lesson based on instructional design principles. ·Reflect on teaching performance based on peer and instructor feedback.	MURAOKA Chikusa
15	" Application to Clinical Education (5)" Microteaching Based on Instructional Design ·Implement a short mock lesson based on instructional design principles. ·Reflect on teaching performance based on peer and instructor feedback.	MURAOKA Chikusa
評価法・基準 Grading Policies	Assessment method: Comprehension and participation in class (40%) and Reports (60%). Criteria: Assessment will be based on rubrics, etc. Feedback: Explanations and feedback will be provided as needed at the beginning of class or individually.	
教科書 Textbook	Will be introduced in the class.	教材・参考書 Reference Book
オフィス アワー Office Hour	MURAOKA Chikusa Questions will be accepted in the classroom about 10 minutes after class. Question by email will be accepted at any time.	連絡先 Contact
準備学習 Preparation of study	Prepare for each topic and participate in class so that you can express your own ideas. Look for related information of keywords on the Internet and other sources to deepen your understanding.	履修上の注意点 Notice for Students  This is not a course for teacher licensure. The class will use active learning techniques such as discussion, group work, presentation, and work on each topic. The active learning experience itself will be an example of hands-on educational activity. To use Microsoft Teams while simultaneously using presentation software, participation via PC or tablet is preferred.

## Motor Function Disorders

専攻分野 Major Field	Common	学年 Grade	1st year	期 間 Semester	1st semester
授業形態 Style	Lecture / Seminar	単位 Credits	2	時間数 Hours	30
授業方法 Class Methods	Remote class	使用言語 Language	Japanese (partly in English)		
担当教員名 Instructor	TERANISHI Toshio, SUZUKI Megumi, TANABE Shigeo, OHTSUKA Kei, TAKEDA Kotaro, UEHARA Shintaro, TANIKAWA Hiroki				
科目概要 Course Aims	<p>From the view of the body performing motor functions as one machine composed of many links, the power source and the mobility of the link to move the machine are very important in considering the functional disorder. We discuss postural balance, muscle strength, walking, and brain function. The body does more than just exercise as directed by the central nervous system. In addition, it does not just notify the central nervous system of environmental changes. From the standpoint that the body self-organizes movement while perceiving environmental information, a motor dysfunction is not perceived as a disorder of muscular strength or motor ability, but as a circulatory disorder of movement and perception. Furthermore, from the perspective of gaining a broader understanding of bodily functions, we will also provide and discuss information related to affordances.</p>				
到達目標 Objectives	<p>The goals of this course are to be able to</p> <ol style="list-style-type: none"> <li>1. Explain methodology of muscle strengthening exercise</li> <li>2. Explain the relationship between brain function and disability</li> <li>3. Explain the relationship between dysfunction and gait disturbance</li> <li>4. Explain the gait analysis</li> <li>5. Explain the spinal nerve mechanism of disability</li> </ol>				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)				担当教員 Instructor
1	Methodology of muscle strengthening exercise 1. History of muscle strengthening exercises				TARANISHI Toshio
2	Methodology of muscle strengthening 2. Muscle strengthening exercises and motor learning				TARANISHI Toshio
3	Methodology of muscle strengthening 3. Effective muscle strengthening exercise				TARANISHI Toshio
4	Functional Kinetics by Klein-Vogelbach				TARANISHI Toshio
5	Nerve connections, muscle spindles and tendon organs				TANABE Shigeo
6	Brain Function 1. Functional change and recovery after brain injury				TAKEDA Kotaro
7	Brain Function 2. Several techniques for measuring brain activity: EEG				TAKEDA Kotaro
8	Brain Function 3. Several techniques for measuring brain activity: PET, SPECT, and fMRI				TAKEDA Kotaro
9	Brain Function 4. Several techniques for measuring brain activity: fNIRS				TAKEDA Kotaro
10	Dysfunction and Gait disturbance				OHTSUKA Kei
11	Cognitive dysfunction and performance				SUZUKI Megumi
12	Pathophysiology of limited range of motion in joints				TANIKAWA Hiroki
13	Pathophysiology of equilibrium dysfunction				TANIKAWA Hiroki
14	Pathophysiology and clinical symptoms of poststroke paresis				UEHARA Shintaro
15	Neural adaptation and associated symptoms in poststroke paresis				UEHARA Shintaro

<p>評価法・基準 Grading Policies</p>	<p>Grading will be described based on students' attitude (30%), Reports, seminar materials and oral examinations (70%). To measure the level of comprehension of the goals, tasks such as preparing reports or documents, or oral examinations will be assigned.</p>		
<p>教科書 Textbook</p>	<p>None</p>	<p>教材・参考書 Reference Book</p>	<p>(TERANISHI) 岡西哲夫. 筋力増強運動. 吉尾雅春(編). 運動療法学総論. 医学書院, 2006. 神宮英夫. スキルの認知心理学. 川島書店, 1998. 三木成夫. ヒトのからだ. うぶすな書店, 1997. ニコライ・A・ベルンシュタイン(工藤和俊訳, 佐々木正人監訳). デクステリティ、巧みさとその発達. 金子書房, 2003. 佐々木正人. アフォーダンス. 岩波書店, 1994.</p>
<p>オフィス アワー Office Hour</p>	<p>TERANISHI Toshio Building 8-7F-704 Monday 8:00-8:30, 21:10-21:30 SUZUKI Megumi Building 8-7F-706 In the day of lecture 18:00-21:00 TANABE Shigeo Building 8-1F-112 In the day of lecture OHTSUKA Kei In the day of lecture TAKEDA Kotaro Nanakuri Memorial Hospital In the day of lecture UEHARA Shintaro Building 8-7F-711 In the day of lecture TANIKAWA Hiroki Building 8-7F-725 In the day of lecture</p>	<p>連絡先 Contact</p>	
<p>準備学習 Preparation of study</p>	<p>Preparatory study of the specified theme for about 1 hour. In addition, perform an extended review for about one hour as the lecture progresses. Be interested in everything and learn with a positive attitude.</p>	<p>履修上の注意 点 Notice for Students</p>	<p>To make notebooks, you can use laptop computer. No things to prepare unless specified.</p>

## Advanced Topics in Adult and Gerontological Nursing I

専攻分野 Major Field	Adult and Gerontological Nursing	学年 Grade	1st year	期間 Semester	1st semester
授業形態 Style	Lecture / Seminar	単位 Credits	2	時間数 Hours	30
授業方法 Class Methods	Remote class	使用言語 Language	Japanese		
担当教員名 Instructor	NAKAMURA Sayuri				
科目概要 Course Aims	I will lecture on basic nursing theories in order to understand people with chronic health problems and diseases in adults and elderlies, and to provide a multifaceted view of the person's life in general. In addition, we will discuss on the use of it in practice and research in adult and gerontological nursing.				
到達目標 Objectives	The goals of this course are to 1. – be able to understand the characteristics of adults and elderlies, and explain self-care that suits individuals. 2. – be able to explain the middle-range theory for understanding the psychology and behavior of people with diseases. 3. – be able to explain how the theory can be used in nursing practice and research.				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1-2	Middle-range theory related to the basic attitude of nursing 1) Need theory 2) Human relations theory 3) Self-care theory			NAKAMURA Sayuri	
3-4	Middle-range theory for understanding human growth and development 1) Life-cycle theory 2) Developmental tasks theory 3) Role theory			NAKAMURA Sayuri	
5-6	Medium-Range theory for understanding human psychological behavior 1) Crisis theory 2) Stress theory 3) Coping theory			NAKAMURA Sayuri	
7-8	Utilization of nursing theory and its presentation 1			NAKAMURA Sayuri	
9-10	Medium-range theory for the understanding of people in the process of disease 1) Trajectory theory 2) Uncertainty in illness theory 3) Acceptance process of disability 4) Acceptance process of death			NAKAMURA Sayuri	
11-13	Medium-range theory for nursing intervention and education for patients 1) Health promotion 2) Self-efficacy 3) Health belief model 4) Stage of change model 5) Andragogy: adult education theory 6) Empowerment theory			NAKAMURA Sayuri	
14-15	Utilization of nursing theory and its presentation 2			NAKAMURA Sayuri	
評価法・基準 Grading Policies	<ul style="list-style-type: none"> <li>• 50% of assignment reports and 50% participation in classes</li> <li>• I will present a task report to measure the level of understanding of the goals.</li> <li>• I will provide feedback for your report in class.</li> </ul>				
教科書 Textbook	1.Sato eiko ed. Introduction to medium-range theory, which is easy to learn through cases, 2nd Edition, Nissoken.	教材・参考書 Reference Book			
オフィス アワー Office Hour	NAKAMURA Sayuri: Every Wednesday, about 20 minutes before and after class at 639, building 3	連絡先 Contact			

準備学習 Preparation of study	Graduate students should prepare the contents according to the lesson plan and discuss it for about 60 minutes. After class, review what students learned for about 60 minutes.	履修上の注意点 Notice for Students	I would like graduate students to have an active discussion.
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## Advanced Topics in Adult and Gerontological Nursing II

専攻分野 Major Field	Adult and Gerontological Nursing	学年 Grade	1st year	期 間 Semester	2nd semester
授業形態 Style	Lecture / Seminar	単位 Credits	2	時間数 Hours	30
授業方法 Class Methods	Remote class	使用言語 Language	Japanese		
担当教員名 Instructor	SUGAMA Junko, MIURA Yuka				
科目概要 Course Aims	This course introduces the latest findings, from basic research to social implementation, on how to support the older adults with dementia and chronic health problems to live in their own community, based on a multifaceted viewpoint. In addition, evidence-based self-care support based on the concept of wellness will be discussed.				
到達目標 Objectives	The goals of this course are to 1- be able to explain how to capture the life functions of the older adults based on research. 2- be able to explain the concept of wellness. 3- be able to discuss specific measures to support self-care for the vulnerable older adults and older adults with dementia based on evidence.				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1-2	WHO guidelines for comprehensive care for older people			SUGAMA Junko	
3	Japan's ageing population situation			SUGAMA Junko	
4-5	Status of implementation of measures for an ageing society			SUGAMA Junko	
6	Historical transformations in dementia and society			SUGAMA Junko	
7	Living better together with dementia			SUGAMA Junko	
8	The significance of the Basic Act on Dementia and expectations for the future			SUGAMA Junko	
9	What is feasible in design in for dementia?			SUGAMA Junko	
10	End-of-life care and treatment for the older people			SUGAMA Junko	
11	Enhancing social engagement of older adults			MIURA Yuka	
12	Changes in the food environment surrounding older adults and how to support them			MIURA Yuka	
13	Technology development involving end-user participation			MIURA Yuka	
14	Decision-making support for people living with dementia			MIURA Yuka	
15	Summary, assignment exercise and presentation			MIURA Yuka	

評価法・基準 Grading Policies	Your overall grade in the class will be decided based on the following: <ul style="list-style-type: none"> <li>•Class attendance and attitude in class:40%</li> <li>•Assignment report:60%</li> </ul>		
教科書 Textbook	Materials will be distributed as needed	教材・参考書 Reference Book	
オフィス アワー Office Hour	SUGAMA Junko and MIURA Yuka: Online support for 30 minutes after class	連絡先 Contact	
準備学習 Preparation of study	Graduate students should prepare the contents according to the lesson plan and to discuss for about 60 minutes. After class, review what students learned for about 60 minutes.	履修上の注意点 Notice for Students	<ul style="list-style-type: none"> <li>•I would like graduate students to have an active discussion.</li> <li>•Make a report-based oral presentation on the last day.</li> </ul>

## Seminars in Adult and Gerontological Nursing I

専攻分野 Major Field	Adult and Gerontological Nursing	学年 Grade	1st year	期間 Semester	1st semester
授業形態 Style	Seminar	単位 Credits	2	時間数 Hours	60
授業方法 Class Methods	In-person or Remote class	使用言語 Language	Japanese		
担当教員名 Instructor	NAKAMURA Sayuri, SUGAMA Junko, MIURA Yuka				
科目概要 Course Aims	Graduate students need to deepen their understanding of the subjects in adult and gerontological nursing. Students will develop the ability to read problems and research trends related to self-care and to clarify research topics. In addition, this exercise will pursue support to promote and maintain self-care and use it for nursing research. The program includes some research presentations as a mandatory component for all students to demonstrate their progress and receive constructive feedback.				
到達目標 Objectives	The goals of this course are to 1. – be able to understand the subjects in adult and gerontological nursing. 2. – be able to consider various problems related to self-care from multifaceted perspective. 3. – be able to collect some clinical original papers related to self-care and to criticize. 4. – be able to create and present literature reviews. 5. – to be able to clarify research topics and examine their own nursing research.				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)				
1-20	1. Search literature related to self-care, Literature critique				
21-30	2. Make out a literature review 3. Presentation 4. Clarification of your own research topics				
評価法・基準 Grading Policies	<ul style="list-style-type: none"> <li>• 50% of the assignment report, 50% attitude to work on research</li> <li>• I will present a task report to measure the level of understanding of the goals.</li> <li>• I will provide feedback for your report in class.</li> </ul>				
教科書 Text Book		教材・参考書 Reference Book	Materials: Literature of your choice		
オフィス アワー Office Hour	NAKAMURA Sayuri: Every Wednesday, about 20 minutes before and after class at 639, building 3 SUGAMA Junko and MIURA Yuka: Online support for 30 minutes after class	連絡先 Contact			
準備学習 Preparation of study	Graduate students should prepare the contents according to the lesson plan and to discuss for about 60 minutes. After class, review what students learned for about 60 minutes.	履修上の注意点 Notice for Students	I would like you to take a positive attitude to conduct critical consideration of the literature, using the literature selected by each student as teaching materials.		

## Seminars in Adult and Gerontological Nursing II

専攻分野 Major Field	Adult and Gerontological Nursing	学年 Grade	1st year	期間 Semester	2nd semester
授業形態 Style	Seminar	単位 Credits	2	時間数 Hours	60
授業方法 Class Methods	In-person or Remote class	使用言語 Language	Japanese		
担当教員名 Instructor	NAKAMURA Sayuri, SUGAMA Junko, MIURA Yuka				
科目概要 Course Aims	<p>Graduate students will develop the ability to explore problems while taking into account ethics in nursing research. They will understand the research methods and data analysis methods necessary to advance the research plan of self-care studies, and use them for their own research.</p> <p>The program includes some research presentations as a mandatory component for all students to demonstrate their progress and receive constructive feedback.</p>				
到達目標 Objectives	<p>The goals of this course are to</p> <ol style="list-style-type: none"> <li>– be able to read literature on nursing ethics and think over about ethical considerations.</li> <li>– be able to understand the research methods and analysis methods necessary to advance nursing research.</li> </ol>				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)				
1-10	1. Setting the conceptual framework and hypothesis 2. Study on research methods				
11-20	3. Study on reliability and validity of measuring tools 4. Analytical and statistical methods related to self-research topics				
21-30	5. Ethical considerations 6. Preparation of research plan				
評価法・基準 Grading Policies	<ul style="list-style-type: none"> <li>• 50% of the assignment report, 50% attitude to work on research</li> <li>• I will present a task report to measure the level of understanding of the goals.</li> <li>• I will provide feedback for your report in class.</li> </ul>				
教科書 Textbook		教材・参考書 Reference Book	1.Polit,D.F. & Beck,C.T.: Nursing research, Principles and methods. Lippincott company, Philadelphia. / Kondo junko (translation): Nursing research principles and methods, 2nd Edition, Igakusyoin.		
オフィス アワー Office Hour	<p>NAKAMURA Sayuri: Every Wednesday, about 20 minutes before and after class at 639, building 3</p> <p>SUGAMA Junko and MIURA Yuka: Online support for 30 minutes after class</p>		連絡先 Contact		
準備学習 Preparation of study	<p>Graduate students should prepare the contents according to the lesson plan and to discuss for about 60 minutes. After class, review what students learned for about 60 minutes.</p>		履修上の注意点 Notice for Students	<p>The class will proceed according to the lesson plan, so a positive attitude is expected.</p>	

## Master's Research in Adult and Gerontological Nursing

専攻分野 Major Field	Adult and Gerontological Nursing	学年 Grade	1st・2nd year	期間 Semester	1st year: 2nd semester 2nd year: Full year
授業形態 Style	Research / Seminar	単位 Credits	10	時間数 Hours	300
授業方法 Class Methods	In-person or Remote class	使用言語 Language	Japanese		
担当教員名 Instructor	NAKAMURA Sayuri, SUGAMA Junko, MIURA Yuka				
科目概要 Course Aims	<p>Graduate students write a master's thesis on nursing care for adults, elderly patients, and families with chronic health problems by integrating with nursing practice. The program includes some research presentations as a mandatory component for all students to demonstrate their progress and receive constructive feedback.</p> <p>They will explore various problems related to health promotion and self-care of chronic disabilities by utilizing the theories and nursing models learned in the seminar and exercises.</p> <p>And they clarify their research topics related to nursing care for adults and the elderly, conduct nursing research, and prepare a master's thesis.</p> <p><b>SUGAMA Junko</b></p> <ol style="list-style-type: none"> <li>1. Study on health issue that arise in older adults with reduced self-care ability due to aging and disease</li> <li>2. Study on a care model using technology to support older adults who continue to live in their own community</li> </ol> <p><b>NAKAMURA Sayuri</b></p> <ol style="list-style-type: none"> <li>1. Study on support for diabetic patients in adulthood</li> <li>2. Study on prevention of lifestyle-related diseases</li> <li>3. Study on the development of communication skills</li> <li>4. Study on interprofessional collaboration in health care</li> </ol> <p><b>Miura Yuka</b></p> <ol style="list-style-type: none"> <li>1. Study on health issue that arise in older adults with reduced self-care ability due to aging and dysphagia</li> <li>2. Research on the development of equipment to support the well-being of elderly people with impaired feeding and swallowing functions</li> </ol>				
到達目標 Objectives	<p>The goals of this course are to</p> <ol style="list-style-type: none"> <li>1. –be able to clarify the research theme and make out the research plan.</li> <li>2. – be able to understand and implement the techniques required for data collection and analysis.</li> <li>3. – be able to do ethical considerations for nursing research.</li> <li>4. – be able to write a manuscript for master's thesis.</li> </ol>				
回数 Chapters	<p style="text-align: center;">授業計画(各回のテーマ) Course Schedule (topic for each time)</p>				
1st year: 2nd semester (60 hours :30 chapters)					
1-30	<ol style="list-style-type: none"> <li>1. Choosing documents about self-care, critical analysis</li> <li>2. Clarification of each research topic and evaluation of the feasibility of the research</li> <li>3. Preparation of research plans based on their own research themes</li> <li>4. Preparation of an application form for the research ethics review</li> </ol>				
2nd year: 1st semester (120 hours:60 chapters)					
31-90	<ol style="list-style-type: none"> <li>1. Data collection based on research plans</li> <li>2. Data analysis</li> </ol>				
2nd year: 2nd semester (120 hours:60 chapters)					
91-150	<ol style="list-style-type: none"> <li>1. Organizing research results</li> <li>2. consider the results using some literature</li> <li>3. Preparation of the manuscript for master's thesis</li> </ol>				

	4. Report of master's thesis		
評価法・基準 Grading Policies	<ul style="list-style-type: none"> <li>• 50% of the assignment report, 50% attitude to work on research</li> <li>• I will present a task report to measure the level of understanding of the goals.</li> <li>• I will provide feedback for your report in class.</li> </ul>		
教科書 Textbook		教材・参考書 Reference Book	1.Polit,D.F.&Beck,C.T.: Nursing research, Principles and methods. Lippincott company, Philadelphia./ Kondo junko (translation): Nursing research principles and methods, 2nd Edition, Igakusyoin.
オフィス アワー Office Hour	NAKAMURA Sayuri: Every Wednesday, about 20 minutes before and after class at 639, building 3 SUGAMA Junko: Online support for 30 minutes after class	連絡先 Contact	
準備学習 Preparation of study	Graduate students should prepare the contents according to the lesson plan and to discuss for about 60 minutes. After class, review what students learned for about 60 minutes.	履修上の注意点 Notice for Students	Graduate students should search for literature related to their research topics in accordance with the lesson plan, analyze them critically, and use them to prepare research plans and master's thesis. I would like them to be positive attitude.

## Advanced Topics in Mental Health and Community Health Nursing I

専攻分野 Major Field	Mental Health and Community Health Nursing field	学年 Grade	1st year	期 間 Semester	1st semester
授業形態 Style	Lecture / Seminar	単位 Credits	2	時間数 Hours	30
授業方法 Class Methods	Remote class	使用言語 Language	Japanese		
担当教員名 Instructor	SEKO Rumi, MIYAMOTO Miho				
科目概要 Course Aims	In this course, we will clarify the need for home care in a society where the birth rate is low, the population is aging, nuclear families are increasing, and chronic diseases are increasing. Lectures on health and medical welfare systems, multi-professional collaboration, care management, and the community-based integrated care system. Conduct discussions on topics covered during lectures.				
到達目標 Objectives	<p>The goals of this course are to</p> <p>(1) be able to explain the social background surrounding home nursing and current status of home care system, establishing ‘the community-based integrated care system’.</p> <p>(2) be able to state the issues of care management in home nursing and multi-professional collaboration.</p> <p>(3) be able to explain research and development methods on an existing theory about instruction, support, the consultation methodology as the nursing job.</p>				
回数 Chapters	授業計画（各回のテーマ） Course Schedule (topic for each time)			担当教員 Instructor	
1-2	Concept, framework of home nursing, Changes in home nursing Establishing ‘the Community-based Integrated Care System’			SEKO Rumi	
3-4	Current status of home nursing provision system, health and medical welfare system related to home nursing			SEKO Rumi	
5-6	Ethical issues and rights protection in home care			SEKO Rumi	
7-9	Care study on the theory and development in home nursing; elderly, cancer, intractable disease, etc.			MIYAMOTO Miho	
10-11	Creating a home care support system by continuing nursing, Signage cooperation, regional cooperation			MIYAMOTO Miho	
12-13	Challenges of an aging housing complex and resident’s needs			SEKO Rumi	
14-15	The Community-based Integrated Care System and nursing function development			MIYAMOTO Miho	
評価法・基準 Grading Policies	Participation in discussion on theme content 50%, Assignment report 50% Evaluate assignment reports to understand your goals Feedback of your presentation will be provided at any time				
教科書 Textbook	None	教材・参考書 Reference Book	Distribute document		
オフィス アワー Office Hour	Questions will be accepted about 20minutes after class or by e-mail	連絡先 Contact			
準備学習 Preparation of study	Students study for 30 to 60 minutes to prepare for the next lesson plan and prepare to participate in discussions. After class, students spend 30 to 60 minutes studying to review the lesson content and summarize their thoughts.	履修上の注意点 Notice for Students	Please actively participate in the class.		

## Advanced Topics in Mental Health and Community Health Nursing II

専攻分野 Major Field	Mental Health and Community Health Nursing field	学年 Grade	1st year	期 間 Semester	2nd semester
授業形態 Style	Lecture / Seminar	単位 Credits	2	時間数 Hours	30
授業方法 Class Methods	Remote class	使用言語 Language	Japanese		
担当教員名 Instructor	SEKO Rumi, MIYAMOTO Miho				
科目概要 Course Aims	<p>It is an important task to improve the health level and QOL according to the needs of people living in the community with various health levels. Judge the health and QOL of people from objective indicators, and construct and explore theoretically the activities of public health nurses. Explains how to extend healthy life expectancy, how to promote health, and how to use anonymous data. (SEKO/MIYAMOTO)</p> <p>Reviewing the history of international development, the outline of the Millennium Development Goals, the 2030 Agenda for Sustainable Development, and Universal Health Coverage will be reviewed. (SEKO)</p> <p>Conduct discussions on topics covered during lectures. (SEKO/MIYAMOTO)</p>				
到達目標 Objectives	<p>1.Explain public health-based public health nurse activities from theoretical models</p> <p>2.Explain guidance, support and consultation methods based on existing theories.</p>				
回数 Chapters	授業計画 (各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1-2	Concept, framework and theory of public health nursing, administrative measures			SEKO Rumi	
3-4	Community Nursing and Public Health Nursing			SEKO Rumi	
5-6	Public Health Nursing Activity: Significance of taking advantage of theory, theory and application for individuals, families, specific groups and community			MIYAMOTO Miho	
7-8	Public Health Nursing Activity Perspectives: Characteristics of public health nurse activities and the concept of health promotion			SEKO Rumi	
9-10	Annual change of healthy life expectancy and evaluation of regional distribution in an aging society			SEKO Rumi	
11-12	Research using anonymous data, etc. of the Basic Survey on National Life			SEKO Rumi	
13-15	Transition of International Development, Millennium Development Goals, 2030 Agenda for Sustainable Development, Universal Health Coverage			SEKO Rumi	
評価法・基準 Grading Policies	<p>Participation in discussion on theme content 50%, Assignment report 50%</p> <p>Evaluate assignment reports to understand your goals</p> <p>Feedback of your presentation will be provided at any time</p>				
教科書 Textbook	None	教材・参考書 Reference Book	Distribute document		
オフィス アワー Office Hour	Questions will be accepted about 20minutes after class or by e-mail	連絡先 Contact			
準備学習 Preparation of study	Students study for 30 to 60 minutes to prepare for the next lesson plan and prepare to participate in discussions. After class, students spend 30 to 60 minutes studying to review the lesson content and summarize their thoughts.	履修上の注意点 Notice for Students	Please actively participate in the class.		

## Seminars in Mental Health and Community Health Nursing I

専攻分野 Major Field	Mental Health and Community Health Nursing field	学年 Grade	1st year	期 間 Semester	1st semester
授業形態 Style	Seminar	単位 Credits	2	時間数 Hours	60
授業方法 Class Methods	In-person class	使用言語 Language	Japanese		
担当教員名 Instructor	SEKO Rumi, MIYAMOTO Miho				
科目概要 Course Aims	We develop ability to read assignments and permanently read original papers focusing on research themes to evolve the knowledge gained in the mental health and community health nursing seminar. Conduct discussions on topics covered during lectures.				
到達目標 Objectives	The goals of this course are to (1) be able to read and critique original articles in related the field. (2) be able to deepen understanding of a theory, the technique, the analysis and state new issues. (3) be able to acquire practical skills to provide high-quality community nursing.				
回数 Chapters	授業計画（各回のテーマ） Course Schedule (topic for each time)				
1-14	1.Introduction: Outline of mental health and community nursing exercise 2.The search of the original articles (English sentence, Japanese sentence) in related the fields, literature review				
15-30	3.Clarification of new issues by criticizing theme-related papers 4.Examination of research methods 5.Consideration of how to prepare a research plan				
評価法・基準 Grading Policies	Participation in discussion on theme content 50%, Assignment report 50% Evaluate assignment reports to understand your goals Feedback of your presentation will be provided at any time				
教科書 Textbook	None	教材・参考書 Reference Book	Distribute document		
オフィス アワー Office Hour	Questions will be accepted about 20minutes after class or by e-mail	連絡先 Contact			
準備学習 Preparation of study	Search for research papers related to the task and study for 30 to 60 minutes to prepare for presentation. After class, students spend 30 to 60 minutes studying to review the lesson content and summarize their thoughts.	履修上の注意点 Notice for Students	We expect active participation		

## Seminars in Mental Health and Community Health Nursing II

専攻分野 Major Field	Mental Health and Community Health Nursing field	学年 Grade	1st year	期 間 Semester	2nd semester
授業形態 Style	Seminar	単位 Credits	2	時間数 Hours	60
授業方法 Class Methods	In-person class	使用言語 Language	Japanese		
担当教員名 Instructor	SEKO Rumi, MIYAMOTO Miho				
科目概要 Course Aims	<p>We develop ability to read assignments and permanently read original papers focusing on research themes to evolve the knowledge gained in the mental health and community health nursing seminar.</p> <p>Foster techniques to enhance specialization in community nursing.</p> <p>Conduct discussions on topics covered during lectures.</p>				
到達目標 Objectives	<p>1. Understanding the relationship between mental health and community nursing practice and research.</p> <p>2. To acquire practical skills to provide high-quality community nursing.</p>				
回数 Chapters	授業計画（各回のテーマ） Course Schedule (topic for each time)				
1-15	1. Analyze the relationship between mental health and community nursing practice and research.				
16-30	2. Clarify the concept of high-quality community nursing while conducting research.				
評価法・基準 Grading Policies	<p>Participation in discussion on theme content 50%, Assignment report 50%</p> <p>Evaluate assignment reports to understand your goals</p> <p>Feedback of your presentation will be provided at any time</p>				
教科書 Textbook	Present as appropriate	教材・参考書 Reference Book	Distribute document		
オフィス アワー Office Hour	Questions will be accepted about 20minutes after class or by e-mail	連絡先 Contact			
準備学習 Preparation of study	Search for research papers related to the task and study for 30 to 60 minutes to prepare for presentation. After class, students spend 30 to 60 minutes studying to review the lesson content and summarize their thoughts.	履修上の注意点 Notice for Students	We expect active participation		

## Master's Research in Mental Health and Community Health Nursing

専攻分野 Major Field	Mental Health and Community Health Nursing field	学年 Grade	1st ・ 2nd year	期 間 Semester	1st year:2nd semester 2nd year: Full-year
授業形態 Style	Research / Seminar	単位 Credits	10	時間数 Hours	300
授業方法 Class Methods	In-person class	使用言語 Language	Japanese		
担当教員名 Instructor	SEKO Rumi, MIYAMOTO Miho				
科目概要 Course Aims	<p>Clarify a research topic related to mental health nursing and community nursing, plan and implement research, and prepare a master's thesis. Through this process, students develop basic skills and ability for the development of mental health and community nursing practice.</p> <p>The program includes a midterm research presentation as a mandatory component for all students to demonstrate their progress and receive constructive feedback.</p> <p>(SEKO Rumi)</p> <ol style="list-style-type: none"> <li>1. Annual changes in healthy life expectancy and evaluation of regional distribution</li> <li>2. Forecast of average independence period based on long-term care insurance</li> <li>3. Smoking status of women and their families based on anonymous data from the Basic Survey on National Life</li> </ol> <p>(MIYAMOTO Miho)</p> <ol style="list-style-type: none"> <li>1. Study on support to the elderly and family members in the community</li> <li>2. Study on care prevention for the elderly in the community</li> <li>3. Study on public health nurses working at community general support centers</li> </ol>				
到達目標 Objectives	<ol style="list-style-type: none"> <li>1. You can clarify your research theme and search related literature</li> <li>2. Create a research plan. Understand and scientifically perform data collection and analysis techniques.</li> <li>3. Objective results can be considered.</li> <li>4. As a researcher, you can consider research ethics.</li> </ol>				
回数 Chapters	授業計画（各回のテーマ） Course Schedule (topic for each time)				
1st year: 2nd semester (60 hours:30 chapters)					
1-30	<ol style="list-style-type: none"> <li>1. Literature search for research theme issues</li> <li>2. Create research design and research plan</li> <li>3. Create an application for ethical review</li> <li>4. Midterm research presentation</li> </ol>				
2nd year: 1st semester (120 hours:60 chapters)					
31-90	<ol style="list-style-type: none"> <li>1. Start the survey and understand how to process statistics</li> <li>2. Data collection, data analysis</li> <li>3. Evaluation of ongoing research and promotion of subsequent research</li> </ol>				
2nd year: 2nd semester (120 hours:60 chapters)					
91-150	<ol style="list-style-type: none"> <li>1. Interpretation and consideration of research</li> <li>2. Create the master's thesis</li> <li>3. Presentation of the master's thesis</li> </ol>				
評価法・基準 Grading Policies	<p>Method: Master's thesis 80%, Efforts in the dissertation preparation process 20%</p> <p>Criteria: Evaluate according to the "Students' Evaluation Theory of Evaluation in Dissertations".</p> <p>Feedback: Provide feedback on issues that are missing in the discussion.</p>				

教科書 Textbook	None	教材・参考書 Reference Book	References
オフィス アワー Office Hour	Questions will be accepted about 20minutes after class or by e-mail	連絡先 Contact	
準備学習 Preparation of study	Identify your own learning issues and study for 30-60 minutes before or after class.	履修上の注意点 Notice for Students	We expect active participation

## Advanced Topics in Maternal and Child Health Nursing I

専攻分野 Major Field	Maternal and Child Health Nursing	学年 Grade	1st year	期間 Semester	1st semester
授業形態 Style	Lecture / Seminar	単位 Credits	2	時間数 Hours	30
授業方法 Class Methods	Remote class	使用言語 Language	Japanese		
担当教員名 Instructor	FUJIWARA Iku, SHIMIZU Mikiko				
科目概要 Course Aims	<p>Understand its interaction with the environment and the role of nursing of the target pregnant women, postpartum mothers, newborns, child and their families. It explores theories of perinatal care systems, self-care, and family development, and explains analysis and assistance methods from an ethical perspective.</p> <p>Conduct discussions on topics covered during lectures.</p>				
到達目標 Objectives	<ol style="list-style-type: none"> <li>1. Organize and analyze the current status of pregnant women, childbearing woman, puerperal women and neonatal nursing based on evidence.</li> <li>2. Understand the current status of the pregnant woman, childbearing woman, puerperal women, and neonatal management systems and clarify problems.</li> <li>3. Understand the characteristics of the target children and their families and be able to explain various theories necessary for child health nursing.</li> <li>4. Understand ethics and children's rights in child health nursing and be able to explain how to develop them.</li> </ol>				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)				担当教員 Instructor
1	Law and administration related to obstetric medical care in Japan. Transition in maternal and child health administration.				FUJIWARA Iku
2	Current status and problems of the pregnant woman management system. The role of nurses in pregnant woman management.				FUJIWARA Iku
3	Current status and problems of the childbearing woman management system. The role of midwives in puerperal women management.				FUJIWARA Iku
4	Current status and problems of the puerperal women management system. The role of midwives in puerperal women management				FUJIWARA Iku
5	Current status and problems of the neonatal management system. The role of nurses in neonatal management.				FUJIWARA Iku
6	Problems in the whole perinatal management system, roles of nurses.				FUJIWARA Iku
7	Children's growth and development characteristics and living. ① Neonatal・Infancy				SHIMIZU Mikiko
8	Children's growth and development characteristics and living. ② First semester of Infancy・Late Infant				SHIMIZU Mikiko
9	Children's growth and development characteristics and living. ③ School Age・Adolescence				SHIMIZU Mikiko
10	Child development theory and application to nursing practice. Psychosocial developmental theory, Cognitive development theory, Self-care theory				FUJIWARA Iku
11	Family development theory and application to nursing practice. Family developmental theory, Maternal and child relationship theory				FUJIWARA Iku
12	Ethics and children's rights in child health nursing. Informed consent / assent				FUJIWARA Iku

13	Nursing care of children with diseases and their families. Case expansion	FUJIWARA Iku	
14	Nursing care of children with diseases and their families. Presentation	FUJIWARA Iku	
15	Exchange of opinions and summary.	FUJIWARA Iku SHIMIZU Mikiko	
評価法・基準 Grading Policies	Evaluation method/standard: In assignment reports (60%) and participation in discussions (40%) Comprehensive evaluation. Feedback: Check the report and provide commentary according to the status of the discussion.		
教科書 Textbook	Distribute materials as needed.	教材・参考書 Reference Book	No reference books are specified.
オフィス アワー Office Hour	FUJIWARA Iku: University Bldg. 3,6F 606 SHIMIZU Mikiko: University Common Building, 6F 602 10 minutes after the end of lecture. Questions can also be submitted via email (no anonymity allowed).	連絡先 Contact	
準備学習 Preparation of study	Preparing for the next lesson (60 minutes or more). Present what you have prepared, receive feedback, and organize it again (more than 30 minutes).	履修上の注意点 Notice for Students	Consider the current perinatal system from various perspectives and summarize your own thoughts on the role of nurses in the future.

## Advanced Topics in Maternal and Child Health Nursing II

専攻分野 Major Field	Maternal and Child Health Nursing	学年 Grade	1st year	期 間 Semester	2nd semester
授業形態 Style	Lecture / Seminar	単位 Credits	2	時間数 Hours	30
授業方法 Class Methods	Remote class	使用言語 Language	Japanese		
担当教員名 Instructor	FUJIWARA Iku, SHIMIZU Mikiko				
科目概要 Course Aims	<p>In addition to deepening understanding of reproductive health/rights, Clarify woman health problems. Cultivate the ability to assess women's health and clarify the issues of women's support. Understand the living environment and describe strategies, skills, and techniques for comprehensive assessment of child and family health.</p> <p>Conduct discussions on topics covered during lectures.</p>				
到達目標 Objectives	<p>1. Understand reproductive health/rights. 2. Clarifying issues for supporting women. 3. Understand the techniques necessary to assess the health status of the target child and family. 4. Understand the assessment methods necessary to develop child health nursing.</p>				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1	Reproductive Health/Rights.			FUJIWARA Iku	
2	Focus points and administrative projects for reproductive health/rights in Japan.			FUJIWARA Iku	
3	Women's rights/self-determination and ethical issues.			FUJIWARA Iku	
4	Women's pregnancy and childbirth in the declining birthrate, mental health, Domestic violence.			FUJIWARA Iku	
5	Health of working women, health problems of foreign women in Japan.			FUJIWARA Iku	
6	Clarify support for women to improve women's health.			FUJIWARA Iku	
7	Theory for health promotion practice.			FUJIWARA Iku	
8	Child development assessment methods. DENVER II Developmental Diagnostic Method and other typical assessment instruments.			SHIMIZU Mikiko	
9	Communication skills with children. Understanding children's thoughts and feelings.			SHIMIZU Mikiko	
10	Communication skills with family members. Understanding parents' thoughts and feelings.			SHIMIZU Mikiko	
11	Social support systems for children and families. Understanding and utilizing systems related to healthcare, welfare, and education.			FUJIWARA Iku	
12	Comprehensive assessment of children's health in infancy.			FUJIWARA Iku	
13	Comprehensive assessment of children's health in school age and adolescent.			FUJIWARA Iku	
14	Comprehensive assessment of family health.			FUJIWARA Iku	
15	Exchange of opinions and summary.			FUJIWARA Iku SHIMIZU Mikiko	

評価法・基準 Grading Policies	Evaluation method/standard: In assignment reports (60%) and participation in discussions (40%) Comprehensive evaluation. Feedback: Check the report and provide commentary according to the status of the discussion.		
教科書 Textbook	No specific textbook is specified. Distribute materials as needed.	教材・参考書 Reference Book	4th World Women's Conference record National hygiene trends
オフィス アワー Office Hour	FUJIWARA Iku: University Bldg. 3,6F 606 HIMIZU Mikiko: University Common Building, 6F 602 10 minutes after the end of lecture. Questions can also be submitted via email (no anonymity allowed).	連絡先 Contact	
準備学習 Preparation of study	Study independently (for at least 60 minutes) according to the planned schedule and prepare the necessary materials by the day of the presentation. Present what you have prepared, receive feedback, and organize it again. (more than 30 minutes).	履修上の注意点 Notice for Students	A proactive research attitude is expected.

## Seminars in Maternal and Child Health Nursing I

専攻分野 Major Field	Maternal and Child Health Nursing	学年 Grade	1st year	期 間 Semester	1st semester
授業形態 Style	Lecture / Seminar	単位 Credits	2	時間数 Hours	60
授業方法 Class Methods	In-person class	使用言語 Language	Japanese		
担当教員名 Instructor	FUJIWARA Iku				
科目概要 Course Aims	<p>To develop the basic ability to read research papers and case reports, both domestic and international, on evaluation perspectives, ideas, and support methods for implementing lifelong health support for women, children, and families, and to interpret previous research necessary for research and development.</p> <p>Conduct discussions on topics covered during lectures.</p>				
到達目標 Objectives	<ol style="list-style-type: none"> <li>1. Be able to understand and explain research subjects in the field of maternal and child health nursing.</li> <li>2. Acquire basic knowledge of theories and methods necessary for research, and be able to explain research methods.</li> <li>3. Can clarify research questions.</li> </ol>				
回数 Chapters	授業計画 (各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1	Orientation			FUJIWARA Iku	
2-5	Research method and data analysis.			FUJIWARA Iku	
6-10	Literature review on pregnant women, parturient, postpartum women, newborns and their families, and women's health issues			FUJIWARA Iku	
11-14	Literature review of children and their families.			FUJIWARA Iku	
15-28	Literature collection and literature review based on research questions, presentation			FUJIWARA Iku	
29-30	Clarification of research issues			FUJIWARA Iku	
評価法・基準 Grading Policies	<p>Evaluation method/standard: Comprehensive evaluation based on assignment report (30%), presentation (50%), and degree of participation in discussion (20%).</p> <p>Feedback: Check the report and provide commentary according to the status of the discussion.</p>				
教科書 Textbook	No specific textbook is specified. Read and use the literature that you think you need	教材・参考書 Reference Book	Distribute materials as needed.		
オフィス アワー Office Hour	FUJIWARA Iku: After class, at 606, building 3 10 minutes after the end of lecture. Questions can also be submitted via email (no anonymity allowed).	連絡先 Contact			
準備学習 Preparation of study	Read the literature and prepare a presentation (60 minutes or more). Present what you have prepared, receive feedback, and organize it again (more than 30 minutes).	履修上の注意点 Notice for Students	Proceed systematically and proactively.		

## Seminars in Maternal and Child Health Nursing II

専攻分野 Major Field	Maternal and Child Health Nursing	学年 Grade	1st year	期 間 Semester	2nd semester
授業形態 Style	Study, Seminar	単位 Credits	2	時間数 Hours	60
授業方法 Class Methods	In-person class	使用言語 Language	Japanese		
担当教員名 Instructor	FUJIWARA Iku				
科目概要 Course Aims	<p>Clarify the perspective of analysis and the research topic when proceeding with a research plan for a topic of interest. Students acquire basic knowledge to select research methods and data analysis methods. Deepen domestic and international knowledge of research issues through literature review. Acquire the basic skills to solve problems that arise during research.</p> <p>Conduct discussions on topics covered during lectures.</p>				
到達目標 Objectives	<p>1.Can clarify research issues.</p> <p>2.Understand and utilize research methods and data analysis methods for clarifying research issues.</p> <p>3.Can create a research plan</p>				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1-30	<p>1. Clarification of research issues</p> <p>2. Literature review</p> <p>3. Examination of research methods and data analysis methods</p> <p>4. Ethics in Nursing Research</p> <p>3. Research plan creation</p>			FUJIWARA Iku	
評価法・基準 Grading Policies	<p>Evaluation method/standard: Comprehensive evaluation based on assignment report (30%), presentation (50%), and degree of participation in discussion (20%).</p> <p>Feedback: Check the report and provide commentary according to the status of the discussion.</p>				
教科書 Textbook	No specific textbook is specified. Read and use the literature that you think you need	教材・参考書 Reference Book	Distribute materials as needed.		
オフィスアワー Office Hour	FUJIWARA Iku: FUJIWARA Iku: University Bldg. 3,6F 606 10 minutes after the end of lecture. Questions can also be submitted via email (no anonymity allowed).	連絡先 Contact			
準備学習 Preparation of study	Prepare presentations (60 minutes or more) for each class. Materials for lectures must be distributed in advance. Receive feedback on the presentation content and organize it again (more than 30 minutes).	履修上の注意点 Notice for Students	Proceed systematically and proactively.		

## Master's Research in Maternal and Child Health Nursing

専攻分野 Major Field	Maternal and Child Health Nursing	学年 Grade	1st・2nd year	期間 Semester	1st year:2nd semester 2nd year: Full-year
授業形態 Style	Lecture / Seminar	単位 Credits	10	時間数 Hours	300
授業方法 Class Methods	In-person class	使用言語 Language	Japanese		
担当教員名 Instructor	FUJIWARA Iku				
科目概要 Course Aims	<p>Maternal and child health Nursing identifies research questions related to the care of individuals and their families, from children at all health levels through adolescents and menopausal stages, work proactively and systematically to write your master's thesis.</p> <p>In the process, develop the basic ability to contribute to the development of maternal nursing and child health Nursing.</p> <p>The program includes a midterm research presentation as a mandatory component for all students to demonstrate their progress and receive constructive feedback.</p> <p><b>FUJIWARA Iku</b></p> <ol style="list-style-type: none"> <li>1. Study on parental readiness and childcare in adolescence</li> <li>2. Study on menstruation in adolescence</li> <li>3. Research on recovery of body shape after childbirth</li> <li>4. Study on elementary school children's child-rearing experiences and feelings toward children</li> </ol>				
到達目標 Objectives	<p>The goals of this course are to</p> <ul style="list-style-type: none"> <li>- be able to analyze the literature related to the theme of interest, determine the research theme</li> <li>- be able to create the research plan</li> <li>- be able to conduct research based on the research plan</li> <li>- be able to prepare manuscript for master's thesis</li> </ul>				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1st year: 2nd semester (60 hours:30 chapters)					
1-30	Search and critically analyze literature related to the theme. Clarify the research theme and evaluate the feasibility of the research. Create a research plan based on the research theme			FUJIWARA Iku	
2nd year: 1st semester (120 hours:60 chapters), 2nd semester (120 hours:60 chapters)					
31-150	Submission of research plan Perform data collection and data processing. Perform data analysis. Preparation of master's thesis Presentation of master's thesis			FUJIWARA Iku	
評価法・基準 Grading Policies	Your overall grade is assessed comprehensively based on attendance, research attitude and master's thesis content. Feedback of your presentation at the group meeting or conference will be provided by instructor				

教科書 Textbook	No specific textbook is specified.	教材・参考書 Reference Book	No reference books are specified.
オフィス アワー Office Hour	FUJIWARA Iku: University Bldg. 3,6F 606 10 minutes after the end of lecture. Questions can also be submitted via email (no anonymity allowed).	連絡先 Contact	
準備学習 Preparation of study	Prepare necessary materials etc. by the class day according to the lesson plan (60 minutes or more). Receive feedback on the presentation content and organize it again (more than 30 minutes).	履修上の注意点 Notice for Students	Cultivate a perspective to analyze things from a broad perspective without sticking to your own way of thinking

## Advanced Topics in Fundamental and Integrated Nursing Science I

専攻分野 Major Field	Fundamental and Integrated Nursing Science	学年 Grade	1st year	期間 Semester	1st semester
授業形態 Style	Lecture / Seminar	単位 Credits	2	時間数 Hours	30
授業方法 Class Methods	Remote class	使用言語 Language	Japanese		
担当教員名 Instructor	MURAYAMA Ryoko, TAKEHARA Kimie, MINAGAWA Atsuko, KOTA Masushi, MATSUDA Nana, AKIYAMA Naomi				
科目概要 Course Aims	When acquiring knowledge and skills in various nursing specialties and demonstrating these abilities in medical and health care settings, it is important to have a perspective that integrates them. Therefore, in this course, students will learn about integrated studies and research methods, such as nursing administration, nursing education, and nursing science and engineering, aiming to acquire the abilities that will serve as the foundation for obtaining the results of nursing research required in clinical practice. Conduct discussions on topics covered during lectures.				
到達目標 Objectives	The goals of this course are to -be able to explain the significance of research in perspective of nursing Administration, nursing education, and nursing science and engineering -be able to discuss perspectives on nursing research required in clinical practice				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1	Research methods and significance in perspective of Nursing Administration 1: What is Nursing Administration?			AKIYAMA Naomi	
2	Research methods and significance in perspective of Nursing Administration 2: Nursing quality and working environment			AKIYAMA Naomi	
3	Research methods and significance in perspective of Nursing Science and Engineering			MURAYAMA Ryoko	
4	Research methods and research examples in perspective of Nursing Science and Engineering: Academic-industrial alliance			MURAYAMA Ryoko	
5	Research methods and research examples in perspective of Nursing Administration: Quality Indicator (QI)			AKIYAMA Naomi	
6	Improving the Quality of Healthcare and Nursing in perspective of Nursing Administration			MATSUDA Nana	
7	Learning strategies of nursing technologies in perspective of Nursing Education: Self-regulated learning			MINAGAWA Atsuko	
8	Evaluation of clinical judgment ability based on the perspective of Nursing Education: Objective Structured Clinical Examination			MINAGAWA Atsuko	
9	Research methods and research examples in perspective of Nursing Education 1: Objective Structured Clinical Examination (OSCE)			MINAGAWA Atsuko	
10	Research methods and research examples in perspective of Nursing Education 2: Technical terms			MINAGAWA Atsuko	
11	Research methods and research examples in perspective of Nursing Science and Engineering: multidisciplinary approach			MURAYAMA Ryoko	
12	Research methods and research examples in perspective of Nursing Science and Engineering 1: Biological approach			KOTA Masushi	

13	Research methods and research examples in perspective of Nursing Science and Engineering 2: Engineering approach	KOTA Masushi
14	Research methods and significance in perspective of Nursing Administration 3: Nursing technology development and management	TAKEHARA Kimie
15	Research methods and research examples in perspective of Nursing Administration 1: Outpatient nursing consultation	TAKEHARA Kimie
評価法・基準 Grading Policies	Your final grade will be calculated according to the following process: reports (40%), in-class contribution (40%), presentation (20%).	
教科書 Textbook		教材・参考書 Reference Book
		I will introduce it as appropriate
オフィス アワー Office Hour	Students can contact faculty online for 30 minutes after class	連絡先 Contact
準備学習 Preparation of study	Students are expected to read the documents and check the technical terms for 30 minutes before class. Review and confirm the material covered in class with the materials and lecture notes (at least 30 minutes).	履修上の 注意点 Notice for Students
		This course will be taught in Japanese. Active participation of students is desired.

## Advanced Topics in Fundamental and Integrated Nursing Science II

専攻分野 Major Field	Fundamental and Integrated Nursing Science	学年 Grade	1st year	期 間 Semester	2nd semester
授業形態 Style	Lecture / Seminar	単位 Credits	2	時間数 Hours	30
授業方法 Class Methods	Remote class	使用言語 Language	Japanese		
担当教員名 Instructor	MURAYAMA Ryoko, TAKEHARA Kimie, MINAGAWA Atsuko, KOTA Masushi				
科目概要 Course Aims	In order to acquire knowledge and skills in various nursing specialties and to exercise these abilities in medical and healthcare settings, as well as to spark further innovation, students must be able to develop evidence-based practice from multiple perspectives, and to implement, evaluate, integrate, and disseminate it. In this course, students will learn about design thinking, tool development, and implementation science necessary for the development of care, as well as about innovation in nursing, using research on technology and nursing as teaching materials. Conduct discussions on topics covered during lectures.				
到達目標 Objectives	The goals of this course are to - be able to explain the basics of implementation science and research methods in nursing - be able to discuss the innovation on nursing				
回数 Chapters	授業計画 (各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1	Implementation of research methods in nursing and significance			MURAYAMA Ryoko	
2	D&I research 1: readiness for organizational change			KOTA Masushi	
3	D&I research 2: consolidated framework			KOTA Masushi	
4	D&I research 3: implementation strategy			KOTA Masushi	
5	D&I research 4: implementation outcomes			KOTA Masushi	
6	D&I research 5: behavioral change			KOTA Masushi	
7	D&I research 6: de-implementation			KOTA Masushi	
8	D&I research 7: examples of implementation research			KOTA Masushi	
9	Nursing care and technology 1: Foot care			TAKEHARA Kimie	
10	Nursing care and technology 2: Peripheral catheter placement-1			MURAYAMA Ryoko	
11	Nursing care and technology 3: Peripheral catheter placement-2			MURAYAMA Ryoko	
12	Innovations in medicine and nursing			MURAYAMA Ryoko	
13	Innovation and Design Thinking			MURAYAMA Ryoko	
14	Innovations in Nursing Education 1: Development and use of scale			MINAGAWA Atsuko	
15	Innovations in Nursing Education 2: Questionnaire survey			MINAGAWA Atsuko	
評価法・基準 Grading Policies	Your final grade will be calculated according to the following process: report (40%), presentation (40%), in-class contribution (20%). We will provide feedback when returning your report.				

<p>教科書 Textbook</p>		<p>教材・ 参考書 Reference Book</p>	<p>National Cancer Institute. Implementation Science at a Glance: A Guide for Cancer Control Practitioners. U.S. Department of Health and Human Services, 2019 ISBN: 9780160950698 Nilsen P, Birken S. Handbook on Implementation Science. Edward Elgar Publishing; 2020 Cited 2022 Nov 4. Available from: <a href="https://www.elgaronline.com/view/edcoll/9781788975988/9781788975988.xml">https://www.elgaronline.com/view/edcoll/9781788975988/9781788975988.xml</a></p>
<p>オフィス アワー Office Hour</p>	<p>Students can contact faculty online for 30 minutes after class</p>	<p>連絡先 Contact</p>	
<p>準備学習 Preparation of study</p>	<p>Students are expected to read the documents and check the technical terms for 30 minutes before class. Review and confirm the material covered in class with the materials and lecture notes. (at least 30 minutes).</p>	<p>履修上の 注意点 Notice for Students</p>	<p>This course will be taught in Japanese. Active participation of students is desired.</p>

## Seminars in Fundamental and Integrated Nursing Science I

専攻分野 Major Field	Fundamental and Integrated Nursing Science	学年 Grade	1st year	期 間 Semester	1st semester
授業形態 Style	Lecture / Seminar	単位 Credits	2	時間数 Hours	60
授業方法 Class Methods	Remote class In-person class	使用言語 Language	Japanese		
担当教員名 Instructor	MURAYAMA Ryoko, TAKEHARA Kimie, MINAGAWA Atsuko				
科目概要 Course Aims	We offer students the opportunity to review the literature. This will help you read the literature. In addition, read educational reports and guidelines. This will help them understand the current situation surrounding nursing education and identify research themes. Conduct discussions on topics covered during lectures.				
到達目標 Objectives	The goals of this course are to -be able to clarify research questions based on the current situation and issues of nursing education, - be able to search for literature on your research questions, - be able to criticize research literature and convey my thoughts accurately, - be able to show a willingness to explore one's own learning tasks.				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1	Students will present their interests, issues, and educational difficulties in nursing education.			MURAYAMA Ryoko	
2-30	1. introduction of literature on topics of interest 2. research literature reviews and critique 3. clarification of learning tasks 4. learning the tasks 5. conducting a presentation  repeat 1-5			MURAYAMA Ryoko TAKEHARA Kimie MINAGAWA Atsuko	
評価法・基準 Grading Policies	Your final grade will be calculated according to the following process: presentation (60%), in-class contribution (40%). Make a presentation based on prior learning using literature. Please participate so that the class can be a lively exchange of ideas.				
教科書 Textbook		教材・参考書 Reference Book	I will introduce it as appropriate		
オフィスアワー Office Hour	Students can contact faculty online or direct for 30 minutes after class	連絡先 Contact			
準備学習 Preparation of study	Prepare for about 30 minutes to read the literature and present your questions. Review and confirm the content discussed in exercise. (at least 30 minutes).	履修上の注意点 Notice for Students	Classes are conducted according to the interests of the students.		

## Seminars in Fundamental and Integrated Nursing Science II

専攻分野 Major Field	Fundamental and Integrated Nursing Science	学年 Grade	1st year	期間 Semester	2nd semester
授業形態 Style	Lecture / Seminar	単位 Credits	2	時間数 Hours	60
授業方法 Class Methods	Remote class In-person class	使用言語 Language	Japanese		
担当教員名 Instructor	MURAYAMA Ryoko, TAKEHARA Kimie, MINAGAWA Atsuko				
科目概要 Course Aims	Through literature criticism, help students acquire the knowledge and critical thinking necessary to advance nursing education research. In the process, present tasks to help you develop the ability to solve questions and issues that arise during your research. Conduct discussions on topics covered during lectures.				
到達目標 Objectives	The goals of this course are to - be able to deepen your knowledge on research themes. - be able to understand research methods. - be able to understand how to create research plan				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1-30	1. creating a literature review 2. clarification of research purpose based on literature review 3. research method based on research purpose 4. how to create research plan 5. ethics in nursing research			MURAYAMA Ryoko TAKEHARA Kimie MINAGAWA Atsuko	
評価法・基準 Grading Policies	Your final grade will be calculated according to the following process: presentation (60%). in-class contribution (40%). Make a presentation based on prior learning using literature. Please participate so that the class can be a lively exchange of ideas.				
教科書 Textbook		教材・参考書 Reference Book	I will introduce it as appropriate		
オフィス アワー Office Hour	Students can contact faculty online or direct for 30 minutes after class	連絡先 Contact			
準備学習 Preparation of study	Students are expected to self-learning over 1 hour for research theme before class. Review and confirm the content discussed in exercise. (at least 30 minutes).	履修上の 注意点 Notice for Students	Classes are conducted according to the interests of the students.		

## Master's Research in Fundamental and Integrated Nursing Science

専攻分野 Major Field	Fundamental and Integrated Nursing Science	学年 Grade	1st ・ 2nd year	期 間 Semester	1st year: 2nd semester 2nd year: Full-year
授業形態 Style	Practice / Seminar	単位 Credits	10	時間数 Hours	300
授業方法 Class Methods	Remote class In-person class	使用言語 Language	Japanese		
担当教員名 Instructor	MURAYAMA Ryoko, TAKEHARA Kimie, MINAGAWA Atsuko				
科目概要 Course Aims	<p>Students work on research projects related to nursing education, nursing administration, nursing science and engineering, and social implementation nursing, conduct research independently and systematically, and prepare a master's thesis. In the process, students develop basic skills to contribute to the development of their respective fields of specialization. The program includes a midterm research presentation as a mandatory component for all students to demonstrate their progress and receive constructive feedback.</p> <p>The major research topics are as follows:</p> <p><b>MURAYAMA Ryoko</b></p> <ol style="list-style-type: none"> <li>1. Research on the development of nursing technology based on nursing science and engineering, and social implementation of the developed technology</li> <li>2. Research on the development and dissemination of ultrasound visualization technology as the sixth physical assessment tool</li> </ol> <p><b>TAKEHARA Kimie</b></p> <ol style="list-style-type: none"> <li>1. Research on the development and social implementation of advanced skin care for diabetic foot ulcer prevention, insulin balls, etc. using nursing science and engineering methods</li> <li>2. Research on a series or part of the process from the creation of new nursing care by the seeds of clinical research to its widespread application for clinical field</li> <li>3. Research on the study of a seamless educational environment between basic nursing education and clinical practice</li> <li>4. Research on the working environment and education of nurses, and patient education</li> </ol> <p><b>MINAGAWA Atsuko</b></p> <ol style="list-style-type: none"> <li>1. Research on educational methods to promote understanding of technical terms</li> <li>2. Research on educational methods using simulated patients</li> </ol>				
到達目標 Objectives	<p>The goals of this course are to</p> <ul style="list-style-type: none"> <li>- be able to careful literature review (English &amp; Japanese) and clarify the research theme</li> <li>- be able to understand research methods to solve research theme, and research plan</li> <li>- be able to collect and analyze data based on research plan</li> <li>- be able to write academic master's paper</li> <li>- be able to gain an ethical attitude as a researcher</li> </ul>				

回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)		
1st year: 2nd semester (60 hours ,30 chapters)			
1-30	1. give mind to research about nursing education 2. research literature reviews and critique 3. clarify the research theme 4. reviews of study design 5. reviews of collecting data and analyzing data 6. preparation of research plan and application to ethics committee		
2nd year: 1st semester (120 hours ,60 chapters)			
31-90	1. select and develop a research place 2. assessment of pre-test: data quality and data interpretation 3. data collect 4. data analyze		
2nd year: 2nd semester (120 hours,60 chapters)			
91-150	1. preparation of master's thesis 2. presentation of research results		
評価法・基準 Grading Policies	<ul style="list-style-type: none"> <li>Your grade is evaluated on Master's thesis (80%) and attendance attitude (20%).</li> <li>Feedback on the master's thesis will be provided by the instructor after the meeting.</li> </ul>		
教科書 Textbook		教材・参考書 Reference Book	1) Polit, D. F. & Beck, C. T.: Nursing research, Generating and Assessing Evidence for Nursing Practice (11th ed.), Lippincott Company, Philadelphia. 2) Grove, S., Burns, N., Gray, J.: The Practice of Nursing Research: Appraisal, Synthesis, and Generation of Evidence (7th ed.). Saunders.
オフィス アワー Office Hour	Students can contact faculty online or direct for 30 minutes after class	連絡先 Contact	
準備学習 Preparation of study	Students are expected to self-learning over 1 hour for research theme before class. Review and confirm the content discussed in class (at least 30 minutes).	履修上の 注意点 Notice for Students	Students need to record progress about self-learning and class. Students carry out research in a scheduled, and if they have trouble, they get advice by their instructor.

## Physical Assessment

専攻分野 Major Field	Acute phase/ Perioperative period	学年 Grade	1st year	期 間 Semester	1st semester
授業形態 Style	lecture, exercise, practice	単位 Credits	2	時間数 Hours	30
授業方法 Class Methods	face-to-face class	使用言語 Language	Japanese		
担当教員名 Instructor	IWATA Mitsunaga et al				
科目概要 Course Aims	We judge severity using lectures on vital signs and symptoms, and a basic medical examination, acquiring knowledge of both quick and appropriate treatments and medical examination training, through which real patients gain a lot of favor, feeding practical power. Through group work and group discussion, develop the ability to find solutions to problems. Group work and discussion improve the students' understanding.				
到達目標 Objectives	We can judge severity from vital signs. Based on expected differential diagnosis, we can use physical examinations to narrow the focus in a short span of time.				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1	Theory of the physical examination basics procedure			NAKAJIMA Masayuki	
2	Overall status and vital signs, medical history			NAKAJIMA Masayuki	
3	Consultation of circulatory organ			ISHIKAWA Masato	
4	Consultation of respiratory			HASHIMOTO Naozumi	
5	Consultation of abdomen			FUNASAKA Kohei	
6	Consultation of kidney, urology, genital			NUKAYA Takuhisa	
7	Consultation of head and neck			JOKO Masahiro	
8	Consultation of neurological disease			KATO Kuniyoshi	
9	Consultation of mammary glands, endocrine, metabolic, lymph nodes			YOSHINO Yasumasa	
10	Consultation of limb, spine			KANEKO Shinjiro	
11	Physical assessment of pediatrics(1)			SAITO Kazuyoshi	
12	Physical assessment of pediatrics(2)			SAITO Kazuyoshi	
13	Physical assessment of senior citizens			HIBINO Masaya	
14	Comprehensive physical examination			NIWA Yudai	
15	Comprehensive physical examination			NIWA Yudai	
評価法・基準 Grading Policies	<p>A rating system: We evaluate it on a periodical test (100%).</p> <p>Criteria: 1. We can determine severity from vital signs. 2. We can describe the basics of each organ diagnosis that we learned. 3. A characteristic of the physical assessment of children is described. 4. A characteristic of the physical assessment of elderly people is described. 5. A characteristic of the physical assessment in the emergency room is described.</p> <p>Feedback: After the small test enforcement by the oral examination, we conduct a model answer, a commentary.</p>				

教科書 Textbook	身体所見からの臨床診断(羊土社) 宮城征四郎	教材・参考書 Reference Book	ERの哲人(CBR) 山中 克郎
オフィス アワー Office Hour	SAKAI Hirotaka: Building 3-6F-621 Friday (16:00~17:00)	連絡先 Contact	
準備学習 Preparation of study	Prepare associated references, and the like with reference to the syllabus before the lecture for around 30 minutes.	履修上の注意点 Notice for Students	Because each lecture adopts seminar procedures, make an aggressive comment.

## Advanced Topics in Medical Physiology

専攻分野 Major Field	Acute phase/ Perioperative period	学年 Grade	1st year	期間 Semester	1st semester
授業形態 Style	lecture, exercise	単位 Credits	2	時間数 Hours	30
授業方法 Class Methods	face-to-face class	使用言語 Language	Japanese		
担当教員名 Instructor	KAWAI Fusao, NAGASAKI Hiroshi, KODANI Yu, SAITO Kanako, KAMEYAMA Toshiki, YAMASHITA Takayuki, OHKUMA Mahito				
科目概要 Course Aims	Human bodies build up several functional systems associated with cellular molecules, cells and organs inside living bodies, whose systems regulate physiological functions in association with each other, and finally retain well homeostatic regulation in living organisms. Graduate students in this curriculum learn structures and functions of individual internal organic systems, in order to understand medical physiology associated with mechanisms of individual diseases, medical aspects and therapeutic relations. Group work and discussion improve the students' understanding.				
到達目標 Objectives	The goals of this graduate curriculum are to, First, be able to explain individual diseases as the failure of internal regulatory systems using medical physiological terms, after understanding the regulatory mechanisms of individual in vivo organic systems. Second, be able to explain medical physiology associated with mechanisms of the representative diseases, medical aspects and therapeutic relations in individual internal organic systems.				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1	General clinical physiology			KAWAI Fusao	
2	Cellular componet functions and homeostasis			KAWAI Fusao	
3	Body fluid and blood			SAITO Kanako	
4	Cardiovascular system I			OHKUMA Mahito	
5	Digestive system			KODANI Yu	
6	Respiratory system			NAGASAKI Hirosi	
7	Metabolism and Nutrition			NAGASAKI Hirosi	
8	Renal and urological system			KAMEYAMA Toshiki	
9	Endocrine system I			NAGASAKI Hirosi	
10	Endocrine system II			NAGASAKI Hirosi	
11	Cardiovascular system II			OHKUMA Mahito	
12	Central nervous system (brain and spinal nerve)			YAMASHITA Takayuki	
13	Peripheral and autonomic nervous system			KAWAI Fusao	
14	Musculoskeletal system and motor control system			YAMASHITA Takayuki	
15	Sensory system and sensory nervous system			KAWAI Fusao	

評価法・基準 Grading Policies	Evaluation method: Students will be evaluated by a written test at the regular examination (100%). Students will be evaluated on whether or not they have sufficient knowledge of pathophysiology and whether or not they have mastered the achievement objectives. The mastery of the course content will be examined during the lecture or outside the class (when students come to ask questions, etc.), and feedback will be given on points where the achievement objectives have not been reached. After grading the semester-end test, feedback will be given on the criteria for judgment in an individualized manner.		
教科書 Textbook	標準生理学(医学書院)10版	教材・参考書 Reference Book	ギャノン生理学第 2426 版(丸善) ガイトン生理学(エルゼビア)
オフィス アワー Office Hour	SAKAI Hirota: Building 3-6F-621 Friday(16:00~17:00)	連絡先 Contact	
準備学習 Preparation of study	Students should prepare for the next lecture by reading the textbook for about two hours on the scope of the next lecture and make every effort to understand as much as possible of what they are learning in advance.	履修上の注意点 Notice for Students	Students should come with their own notes on what they have studied in preparation for the lecture. Professors will ask you questions during class about what you have learned. Make every effort to answer correctly. In the review, students should spend about two hours examining, adding to, and revising the content they have prepared based on the results of what they have learned in class. If necessary, recapitulate it in a separate notebook of your own.

## Advanced Topics in Clinical Pharmacology

専攻分野 Major Field	Acute phase/ Perioperative period	学年 Grade	1st year	期間 Semester	1st semester
授業形態 Style	lecture, exercise	単位 Credits	2	時間数 Hours	30
授業方法 Class Methods	face-to-face class	使用言語 Language	Japanese		
担当教員名 Instructor	MIZUNO Tomohiro				
科目概要 Course Aims	The reaction of the drug in the body, captured from both pharmacodynamics and pharmacokinetics, and the classification of the drug used in clinical practice in action to learn side effects of drugs. This lecture focuses on patients with severe acute care before and after surgery, in the acute phase, and in the ICU (intensive care), acquiring basic knowledge through lectures (mainly anesthetics and respiratory and circulatory agonists). Group work and discussion improve the students' understanding.				
到達目標 Objectives	The goals of this course are to - explain the mechanism of drug action and interaction for patients, cells, and the molecular.				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1	Pharmacology I (Pharmacokinetics・ADME)			MIZUNO Tomohiro	
2	Pharmacology Studies II (Pharmaceutical Mechanics and Action Targets)			MIZUNO Tomohiro	
3	Pharmacological effects and side effects of boosting drugs, antihypertensive drugs, and emergency medicines			MIZUNO Tomohiro	
4	Pharmacological effects and side effects of asthma therapeutics			MIZUNO Tomohiro	
5	Pharmacological effects and side effects of anesthetics and pre-anestheticsists			MIZUNO Tomohiro	
6	Pharmacological effects and side effects of narcotic analgesics, sedatives, and anticonvulsants			MIZUNO Tomohiro	
7	Pharmacological effects and side effects of drugs in the treatment of acute heart failure and cardiac asthma			MIZUNO Tomohiro	
8	Pharmacological effects and side effects of drugs in the treatment of antithrombotic and hemostatic drugs			MIZUNO Tomohiro	
9	Pharmacological effects and side effects of drugs in the treatment of arrhythmia and angina			MIZUNO Tomohiro	
10	Pharmacological effects and side effects of drugs in the treatment of diabetes therapeutics			MIZUNO Tomohiro	
11	Pharmacological effects and side effects of anti-inflammatory drugs, antiallergic drugs, and immunosuppression			MIZUNO Tomohiro	
12	Drug Addiction			MIZUNO Tomohiro	
13	Drug allergy (anaphylactic shock)			MIZUNO Tomohiro	
14	Pharmacological effects and side effects of anticancer drugs			MIZUNO Tomohiro	
15	Infusion			MIZUNO Tomohiro	
評価法・基準 Grading Policies	Evaluation method: Evaluate the target to be evaluated in the periodic test (100%). Feedback: Provide model answers after periodic tests.				

教科書 Textbook	今日の治療薬 2026(南江堂)	教材・参考書 Reference Book	薬剤師の臨床センスを磨くトレーニングブック 薬トレ 循環器(南山堂) 薬剤師の臨床センスを磨くトレーニングブック 薬トレ 感染・がん(南山堂) 薬剤師の臨床センスを磨くトレーニングブック 薬トレ 肝・腎(南山堂)
オフィス アワー Office Hour	SAKAI Hirotaka: Building 3-6F-621 Friday (16:00~17:00)	連絡先 Contact	
準備学習 Preparation of study	Prepare associated references, and the like with reference to the syllabus before the lecture for around 30 minutes.	履修上の注意点 Notice for Students	Because each lecture adopts seminar procedures, make an aggressive comment.

## Pharmacotherapeutics

専攻分野 Major Field	Acute phase/ Perioperative period	学年 Grade	1st year	期間 Semester	2nd semester
授業形態 Style	lecture, exercise	単位 Credits	2	時間数 Hours	30
授業方法 Class Methods	face-to-face class	使用言語 Language	Japanese		
担当教員名 Instructor	MIZUNO Tomohiro				
科目概要 Course Aims	Based on the pharmacodynamics (side effects, interactions) of major drugs, students will learn the actual prescription and the safety management of drugs used in clinical practice. Students will acquire basic knowledge regarding the use of drugs considering disease, and the actual prescription of drugs and precautions for children and the older adults. Group work and discussion improve the students' understanding.				
到達目標 Objectives	Acquirement the method of active learning (Team-Based-Learning) and knowledge of pharmacotherapy in clinical practice.				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1-2	Theory of safety management and the prescription of main drugs			MIZUNO Tomohiro	
3-5	The prescription of main drugs, actually			MIZUNO Tomohiro	
6-7	Correspondence to a side effect of the medical treatment			MIZUNO Tomohiro	
8-9	Theory of the drug interaction			MIZUNO Tomohiro	
10-11	The prescription of the pharmacotherapy to children			MIZUNO Tomohiro	
12-13	The prescription of the pharmacotherapy to older adults			MIZUNO Tomohiro	
14-15	The prescription of the pharmacotherapy to patients with pregnancy and breastfeed			MIZUNO Tomohiro	
評価法・基準 Grading Policies	Evaluation method: Evaluate the target to be evaluated in the periodic test (100%). Feedback: Provide model answers after periodic tests.				
教科書 Textbook	今日の治療薬 2026(南江堂)	教材・参考書 Reference Book	薬剤師の臨床センスを磨くトレーニングブック 薬トレ 循環器(南山堂) 薬剤師の臨床センスを磨くトレーニングブック 薬トレ 感染・がん(南山堂) 薬剤師の臨床センスを磨くトレーニングブック 薬トレ 肝・腎(南山堂)		
オフィス アワー Office Hour	SAKAI Hirotaka: Building 3-6F-621 Friday (16:00~17:00)	連絡先 Contact			
準備学習 Preparation of study	Prepare associated references, and the like with reference to the syllabus before the lecture for around 30 minutes.	履修上の注意点 Notice for Students	Because each lecture adopts seminar procedures, make an aggressive comment.		

## Advanced Topics in Critical Care Nursing

専攻分野 Major Field	Acute phase/ Perioperative period	学年 Grade	1st year	期間 Semester	1st semester
授業形態 Style	lecture, exercise, practice	単位 Credits	2	時間数 Hours	30
授業方法 Class Methods	face-to-face class	使用言語 Language	Japanese		
担当教員名 Instructor	SAKAI Hirotaka				
科目概要 Course Aims	Understand the various effects on patients, including families in critical situations, perform all human assessments on the basis of providing support to patients in a lecture, and use this knowledge to create a method for providing appropriate nursing support. Also, examine the general role and practice contents of nurse confluent practice in care, and, through group work and group discussion, increase the ability for problem solving.				
到達目標 Objectives	<p>The goals of this course are to</p> <ul style="list-style-type: none"> <li>-be able to improve the state of the patients, including families in critical situations, from physical, psychological, and social perspectives.</li> <li>-be able to research the concrete nursing support of patients, as well as their families, in critical situations from the viewpoint of the practice nurse.</li> <li>-be able to understand the role of the practice nurse and the practice content, the current situation and the problems this involves.</li> </ul>				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1	The current situation of the practice nurse in Japan and the associated law			SAKAI Hirotaka	
2	Critical care outline			SAKAI Hirotaka	
3	Assessment and consultation methods			SAKAI Hirotaka	
4	Case presentation method			SAKAI Hirotaka	
5	Assessment in critical patients: SAT, SBT			SAKAI Hirotaka	
6	Assessment in critical patients: early rehabilitation			SAKAI Hirotaka	
7	Assessment in critical patients: PICS, delirium, ICU-AW			SAKAI Hirotaka	
8	Assessment in critical patients: PICS-F, PTSD, family care			SAKAI Hirotaka	
9	Assessment in critical patients: analgesia, sedation, PAD guidelines			SAKAI Hirotaka	
10	Assessment in critical patients: nutritional management			SAKAI Hirotaka	
11	Medical safety in critical situations: hemodynamic monitoring			SAKAI Hirotaka	
12	Medical safety in critical situations: mechanical ventilation management			SAKAI Hirotaka	
13	Medical safety in critical situations: physical restraint, visitation time			SAKAI Hirotaka	
14	Medical safety in critical situations: pressure ulcers, posture			SAKAI Hirotaka	
15	US NP situation, related regulations			SAKAI Hirotaka	
評価法・基準 Grading Policies	<p>Evaluation method: We evaluate it on a periodical test (100%).</p> <p>Criteria: We make questions for a question to measure an arrival degree of arrival target 1-3 in the regular examination.</p> <p>Feedback: After the small test enforcement by the oral examination, we conduct a model answer, a commentary.</p>				

教科書 Textbook	Will be introduced in the class.	教材・参考 書 Reference Book	道又元裕:クリティカルケア看護技術の実践と根拠、第1版、中山書店 黒田裕子ら:クリティカルケア看護 完全ガイド、第1版、医歯薬出版
オフィス アワー Office Hour	SAKAI Hirotaka: Building 3-6F-621 Friday (16:00~17:00)	連絡先 Contact	
準備学習 Preparation of study	Prepare associated references, and the like with reference to the syllabus before the lecture for around 30 minutes.	履修上の注意 点 Notice for Students	Because each lecture adopts seminar procedures, make an aggressive comment.

## Advanced Topics in Medical Pathognomy of Surgery

専攻分野 Major Field	Acute phase/ Perioperative period	学年 Grade	1st year	期 間 Semester	1st semester
授業形態 Style	lecture, exercise	単位 Credits	2	時間数 Hours	30
授業方法 Class Methods	face-to-face class	使用言語 Language	Japanese		
担当教員名 Instructor	ABE Tomonobu et al				
科目概要 Course Aims	Students learn the surgical anatomy necessary for surgical treatment in lectures, while also understanding the pathophysiology of acute and perioperative periods on both a pathological and physiological basis. Lectures systematically teach the clinical tests frequently used in acute and perioperative patients, meaning they can be applied in clinical practice. Develop problem-solving skills through group work and group discussions so that they can respond appropriately.				
到達目標 Objectives	<p>The goals of this course are to</p> <ul style="list-style-type: none"> <li>-be able to explain the surgical dissection of the chest and abdomen.</li> <li>-be able to explain basic nutrition and circulation.</li> <li>-be able to explain the pathological conditions caused by nutritional disorders and respiratory and circulatory disorders.</li> <li>-be able to explain the principle of basic images and physiological examinations.</li> </ul> <p>Point out abnormal findings of basic imaging and physiological tests.</p>				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1	Surgical anatomy (cardiopulmonary thorax)			ABE Tomonobu	
2	Surgical anatomy (digestive system)			NAKAUCHI Masaya	
3	Nutritional Management-Carbohydrate, Lipid, Protein Metabolic Disorders and Diseases			SAKAI Hirota	
4	Circulatory disorders-changes associated with anemia and impaired blood flow			YAMANOUCHI Dai	
5	Cardiac electrophysiology			HAYASHI Mutsuharu	
6	Abnormal ECG			HAYASHI Mutsuharu	
7	Pathophysiology of heart failure and shock			HAYASHI Mutsuharu	
8	Respiratory failure, gas exchange, respiratory physiology			KIKUCHI Naohiko	
9	The theory of ultrasonography			SAKAGUCHI Eirin	
10	Echocardiography			SAKAGUCHI Eirin	
11	Abdominal ultrasonography			TAKAHARA Takeshi	
12	Theory of medical diagnostic imaging, effects of radiation, simple x-ray examination			HATTORI Hidekazu	
13	Medical diagnostic imaging, CT MRI, nuclear medicine, fluoroscopy			HATTORI Hidekazu	
14	Image diagnosis in the emergency area ①			FUNABIKI Tomohiro	
15	Image diagnosis in the emergency area ②			FUNABIKI Tomohiro	

<p>評価法・基準 Grading Policies</p>	<p>Evaluation method: Evaluate by periodic test (100%).  Criteria: 1. Explain the surgical dissection of the chest and abdomen.  2. Explain basic nutrition and circulation.  3. Explain the pathological conditions caused by nutritional disorders and respiratory and circulatory disorders.  4. Explain the principles of basic imaging and physiological examinations.  5. Point out abnormal findings of basic imaging and physiological tests.  Feedback: After the quiz by oral examination, a model answer and explanation will be given.</p>		
<p>教科書 Textbook</p>	<p>Will be introduced in the class.</p>	<p>教材・参考書 Reference Book</p>	
<p>オフィス アワー Office Hour</p>	<p>SAKAI Hirotaka: Building 3-6F-621  Friday (16:00~17:00)</p>	<p>連絡先 Contact</p>	
<p>準備学習 Preparation of study</p>	<p>Prepare associated references, and the like with reference to the syllabus before the lecture for around 30 minutes.</p>	<p>履修上の注意点 Notice for Students</p>	<p>Because each lecture adopts seminar procedures, make an aggressive comment.</p>

## Advanced Topics in Internal Medicine

専攻分野 Major Field	Acute phase/ Perioperative period	学年 Grade	1st year	期間 Semester	2nd semester
授業形態 Style	lecture, exercise, practice	単位 Credits	3	時間数 Hours	45
授業方法 Class Methods	face-to-face class	使用言語 Language	Japanese		
担当教員名 Instructor	MURAMATHU Takashi et al				
科目概要 Course Aims	We acquire the knowledge of the systematic disease theory, according to organs, through lectures. We place an importance on understanding the particular disease in the field affiliated with department of internal medicine for the acute phase of the heart and the lung, which are targeted in terms of knowledge acquirement for grasping the precise clinical condition, appropriate treatment, and treatment preferences. Also, we will understand overall life cycles from infants through to old age. Through group work and group discussion, we will develop problem-solving abilities for finding solutions problem.				
到達目標 Objectives	The goals of this course are to: Grasp the situation and the correspondence, and be able to make an evaluation based on sudden changes in patients with medical diseases. Explain the main medical diseases (heart, lung, digestive organ, kidney, internal secretion metabolism, rheumatic collagenosis, nerves, blood) according to the organ. Understand diseases peculiar to children and elderly people, as well as their specificity.				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1	Clinical diagnosis and treatment of acute myocardial infarction			MURAMATSU Takashi	
2	Pathology of cardiovascular disease and overview of clinical diagnosis and treatment			KAWAI Hideki	
3	Purpose of temporary pacemaker Adaptation and Contraindications of Temporary Pacemakers Risks associated with temporary pacemakers (Adverse events and countermeasures, etc.) Types and mechanisms of paper-sink equipment Select and adapt pacemaker modes Guidance and education for patients and families Purpose of removal of temporary pacemaker leads Indications and Contraindications for Removal of Temporary Pacemaker Leads Risks associated with the removal of temporary pacemaker leads (Adverse events and countermeasures, etc.)			HARADA Masahide	
4	Pathogenesis of respiratory diseases and lung cancer and overview of clinical diagnosis and treatment			HASHIMOTO Naozumi	
5	Gastrointestinal diseases (bleeding, cancer, hepatitis, cirrhosis, etc.) and overview of clinical diagnosis and treatment			KUZUYA Teiji	
6	Pathology of Diabetes and Overview of Clinical Diagnosis and Treatment			HIRATSUKA Izumi	
7	Pathology of Endocrine and Adenogenedisease and Overview of Clinical Diagnosis and Treatment			HIRATSUKA Izumi	
8	Pathogenesis of infectious diseases and overview of clinical diagnosis and treatment			DOI Yohei	

9	Pathology of nervous system diseases and overview of clinical diagnosis and treatment	NODA Sotaro	
10	Pathology of pediatric diseases and overview of clinical diagnosis and treatment	UCHIDA Hidetoshi	
11	Pathology of Mental Disorders and Mental Systems and Overview of Clinical Diagnosis and Treatment	OKOCHI Tomo	
12	Pathogenesis of immunity, rheumatism, collagen disease and overview of clinical diagnosis and treatment	UMEDA Ai	
13	Pathogenesis of blood and lymph node diseases and overview of clinical diagnosis and treatment	TOMITA Akihiro	
14	Physical examination in emergency medicine	UENISHI Norimichi	
15	Clinical pathology and treatment in acute stage of children	MIYATA Masafumi	
16	Clinical Diagnosis and Treatment of Pediatric Internal Medicine Diseases	KAWAMURA Yoshiki	
17	Allergic diseases in children, clinical diagnosis and treatment peculiarities	NAKAJIMA Yoichi	
18	Speciality of clinical diagnosis and treatment in the elderly	TAKECHI Hajime	
19	Local Anatomy of Acute Blood Purification Therapy Pathophysiology of major diseases requiring acute blood purification therapy Physical assessment of major diseases requiring acute blood purification therapy Purpose of dialysis in acute blood purification therapy Indications and Contraindications of Dialysis for Acute Blood Purification Therapy Risks associated with acute blood purification therapy (Adverse events and countermeasures, etc.)	KOIDE Shigehisa	
20	Simulation education for basic procedures for physical examination	KOIDE Shigehisa	
21	Response and Assessment in the Case of sudden change ①	WATASE Taketo	
22	Response and Assessment in the Case of sudden change ②	GOSHIMA Takahiro	
23	Response and Assessment in the Case of sudden change ③	UENISHI Norimichi	
評価法・基準 Grading Policies	<p>Evaluation method: Evaluated in a regular test (100%).  Criteria: 1. It is possible to grasp the situation at the time of sudden change of patients with internal medicine disease, and can explain the correspondence and evaluation.  2. I can explain the pathophysiology of the main internal medicine diseases by organ.  3. Can explain the diseases peculiar to children and their peculiarities.  4. It can explain the disease peculiar to the elderly and its peculiarities.  Feedback: After the quiz by oral examination, model answers and explanations are performed.</p>		
教科書 Textbook	Year Note Internal Medicine & Surgery 岡庭 豊 医療情報科学研究所	教材・参考書 Reference Book	内科学 (朝倉書店) 矢崎義雄
オフィス アワー Office Hour	SAKAI Hirotaka : Building 3-6F-621 Friday (16:00~17:00)	連絡先 Contact	
準備学習 Preparation of study	Prepare associated references, and the like with reference to the syllabus before the lecture for around 30 minutes.	履修上の注意 点 Notice for Students	Because each lecture adopts seminar procedures, make an aggressive comment.

## Advanced Topics in Management of Surgical Patient I

専攻分野 Major Field	Acute phase/ Perioperative period	学年 Grade	1st year	期 間 Semester	2nd semester
授業形態 Style	lecture, exercise, practice	単位 Credits	3	時間数 Hours	45
授業方法 Class Methods	face-to-face class	使用言語 Language	Japanese		
担当教員名 Instructor	SHIOGAMA Kazuya et al				
科目概要 Course Aims	<p>After a lecture on surgical treatment, a detailed explanation of gastrointestinal surgery, respiratory surgery, and cardiovascular surgery will be given.</p> <p>The target diseases for surgical treatment are multidisciplinary, and are recently specialized and sophisticated. In order to understand this, we explain it so that you can acquire the basics of the surgical treatment required. You will also develop problem-solving skills through group work and group discussions, so that you can respond appropriately.</p>				
到達目標 Objectives	<p>The goals of this course are to:</p> <ul style="list-style-type: none"> <li>- understand the clinical condition of the representative surgical disease and explain the theory of the latest surgical therapy for each disease.</li> <li>- explain the perioperative postoperative care for operations relating to each disease.</li> </ul>				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1	Introduction to clinical pathology			SHIOGAMA Kazuya	
2	Introduction to clinical pathology			SHIOGAMA Kazuya	
3	Cardiovascular surgery : Diagnosis and surgical treatment of ischemic, thoracic dyskinesia			YAMANA Koji	
4	Cardiovascular surgery : Diagnosis and surgical treatment of valvular diseases			AMANO Kentaro	
5	Respiratory disease • Surgical treatment of tumor			AKITA Kiyotoshi	
6	Diagnosis and treatment of abdominal emergency disease			SAKURAI Yusuke	
7	Diagnosis and surgical treatment of esophageal disease / tumor			KAWAMOTO Naonori	
8	Surgical treatment of respiratory diseases / tumors			KIKUCHI Naohiko	
9	Surgical treatment of breast surgical diseases and tumors			HIRATA Munetsugu	
10	Diagnosis and surgical treatment of esophageal disease / tumor			TANAKA Tsuyoshi	
11	Diagnosis and surgical treatment of gastric diseases and tumors			INABA Kazuki	
12	Diagnosis and surgical treatment of colorectal disease and tumor			OHTSUKA Koki	
13	Diagnosis and surgical treatment of liver disease / tumor			TAKAHARA Takeshi	
14	Diagnosis and surgical treatment of biliary tract, pancreatic disease system and tumor			ITO Masahiro	

15	<p>Clinical pharmacology of sodium, potassium or chlor administration by continuous infusion</p> <p>Indication and use of sodium, potassium or chlor for continuous infusion</p> <p>Side effects of sodium, potassium or chlor administration by continuous infusion</p> <p>Risk of adjusting sodium, potassium or chlor dose during continuous infusion (adverse events and countermeasures, etc.)</p> <p>Types and clinical pharmacology of carbohydrate and electrolyte infusions</p> <p>Indications and usage of various carbohydrate and electrolyte infusions</p> <p>Side effects of various carbohydrate and electrolyte infusions</p> <p>Risk of dose adjustment of carbohydrate infusion and electrolyte infusion during continuous infusion (adverse events and countermeasures, etc.)</p>	KOIDE Shigehisa
16	<p>Purpose of percutaneous cardiopulmonary support equipment</p> <p>Indications and contraindications for percutaneous cardiopulmonary support devices</p> <p>Percutaneous cardiopulmonary support equipment and its risks (Adverse events and their countermeasures, etc.)</p> <p>Mechanism of percutaneous cardiopulmonary support device</p> <p>Purpose of intra-aortic balloon pumping</p> <p>Indications and contraindications for intra-aortic balloon pumping</p> <p>Risks associated with intra-aortic balloon pumping (Adverse events and their countermeasures, etc.)</p> <p>Indications and contraindications for adjusting the frequency of assistance for withdrawal from intra-aortic balloon pumping</p> <p>Risks associated with adjusting the frequency of assistance for withdrawal from intra-aortic balloon pumping (Adverse events and their countermeasures, etc.)</p>	TAKAMI Yoshiyuki
17	<p>Types of anticancer drugs and clinical pharmacology</p> <p>Indication and usage of various anticancer drugs</p> <p>Side effects of various anticancer drugs</p> <p>Types of steroids and clinical pharmacology</p> <p>Side effects of steroids</p>	MATSUOKA Hiroshi
18	<p>Local anatomy for airway management</p> <p>Pathophysiology and physical assessment of the adjustment of the position of the oral and nasal tracheal tubes</p> <p>Purposes, indications and contraindications for oral and nasotracheal intubation</p> <p>Oral and nasal tracheal tube types and indications</p> <p>Oral and nasal tracheal tubes for respiratory management</p> <p>Manual ventilation technique using back valve mask (BVM)</p>	e-learning
19	<p>Purpose, indications and contraindications for mechanical ventilation</p> <p>Indications and contraindications for mechanical ventilation</p> <p>Indications and contraindications for ventilator management</p> <p>Mechanism / type / structure of ventilator</p>	e-learning
20	<p>Local anatomy for central venous catheter</p> <p>Pathophysiology and physical assessment of major diseases requiring central venous catheters</p> <p>Purpose of central venous catheter, indications and contraindications, adverse events and countermeasures, etc.</p> <p>Methods and procedures for removing central venous catheters</p>	e-learning

21	Local dissection of wound drainage Pathophysiology of major diseases requiring wound drainage Physical assessment of major diseases requiring wound drainage Purpose of wound drainage Indications and contraindications for wound drainage Risks associated with wound drainage (Adverse events and their countermeasures, etc.)	e-learning	
22	Topography of peritoneal drainage Pathophysiology of major diseases requiring peritoneal drainage Physical assessment of major diseases requiring peritoneal drainage Purpose of peritoneal drainage Indication and contraindications for abdominal drainage Risks associated with peritoneal drainage (Adverse events and their countermeasures, etc.)	e-learning	
23	Pathophysiology of infectious disease Major symptoms and major diseases of infectious disease How to diagnose infectious diseases Diagnosis of major infectious diseases Physical assessment of major diseases	e-learning	
評価法・基準 Grading Policies	Evaluation method: Evaluate by regular test (100%). Criterion: 1. Understand the pathology of typical surgical diseases. 2. Explain the latest theory of surgical treatment. 3. Preoperative patient management can be performed with a doctor. 4. In-operation assistant and management can be done with a doctor. 5. Post-operative patient management can be performed with a doctor. Feedback: After the quiz by oral examination, a model answer and explanation will be given.		
教科書 Textbook	Will be introduced in the class.	教材・参考書 Reference Book	Year Note Internal Medicine & Surgery 岡庭 豊 医療情報科学研究所
オフィス アワー Office Hour	SAKAI Hirota: Building 3-6F-621 Friday (16:00~17:00)	連絡先 Contact	
準備学習 Preparation of study	Prepare associated references, and the like with reference to the syllabus before the lecture for around 30 minutes.	履修上の注意点 Notice for Students	Because each lecture adopts seminar procedures, make an aggressive comment.

## Advanced Topics in Management of Surgical Patient II

専攻分野 Major Field	Acute phase/ Perioperative period	学年 Grade	1st year	期 間 Semester	2nd semester
授業形態 Style	lecture, exercise	単位 Credits	3	時間数 Hours	45
授業方法 Class Methods	face-to-face class	使用言語 Language	Japanese		
担当教員名 Instructor	TANABE Jun et al				
科目概要 Course Aims	Over the course of the lectures, we will understand the surgical treatments of trauma, acute phase, perioperative period, and severe disease in multiple fields, while also learning about the diagnosis and treatment methods of typical diseases in the following surgical fields: Cranial Neurosurgery, Orthopedic Surgery, Renal and Urological Surgery, Obstetrics and Gynecology, Otorhinolaryngology, Ophthalmology, Dental Oral Surgery, Pediatric Surgery, Dermatology, Plastic Surgery, Rehabilitation Medicine. Develop problem-solving skills through group work and group discussions, so that they can respond appropriately.				
到達目標 Objectives	Understand the pathology of important diseases other than those studied in Advanced Surgical Patient Management II, and explain the theory of the latest treatment methods for each disease. Furthermore, the preoperative, intraoperative, and postoperative management of each disease will be explained.				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1	Introduction to cranial nerves (anatomy, physiology)			TANABE Jun	
2	Imaging required for neurosurgery			KUMON Masanobu	
3	Clinical diagnosis and treatment of cerebrovascular disorder Perioperative management			MATSUMOTO Syoji	
4	Musculoskeletal system (anatomy, physiology)			FUJITA Nobuyuki	
5	Overview of pathophysiology and clinical diagnosis and treatment of musculoskeletal diseases			NOJIRI Syo	
6	Gynecology (dissection, physiology)			NISHIO Eiji	
7	Overview of gynecological diseases and clinical diagnosis and treatment			NISHIO Eiji	
8	Overview of clinical conditions and clinical diagnosis and treatment in obstetrics			MIZUTANI Hidesuke	
9	General renal and urology (anatomy, physiology)			ICHINO Manabu	
10	Overview of pathophysiology, clinical diagnosis and treatment of renal and urinary diseases			SARUTA Masanobu	
11	Otolaryngology (anatomy, physiology)			IWATA Yoshihiro	
12	Overview of pathophysiology and clinical diagnosis and treatment of otolaryngological diseases			IWATA Yoshihiro	
13	Introduction to Ophthalmology (Anatomy, Physiology)			MIZUGUCHI Tadashi	
14	Overview of pathophysiology and clinical diagnosis and treatment of ophthalmic diseases			MIZUGUCHI Tadashi	
15	Overview of pathophysiology and clinical diagnosis and treatment of plastic surgery diseases			OKUMOTO Takayuki	
16	Overview of Oral Surgery Diseases and Clinical Diagnosis / Treatment			KOBAYASHI Yoshikazu	

17	Regional anatomy of psychiatry Major psychiatric symptoms Major psychiatric disorders and pathophysiology Interview findings for major mental illness Psychological and mental function tests Clinical pharmacology used in psychiatry (Including side effects, tolerance and dependence)	KISHI Taro
18	Clinical diagnosis and special treatment of emergency care	IWATA Mitsunaga
19	Clinical diagnosis and special treatment of emergency care	FUNABIKI Tomohiro
20	Topography of skin, subcutaneous tissue (including bone) Management of major underlying diseases Whole body / local physical assessment Types and conditions of chronic wounds Classification, assessment and evaluation of pressure ulcers Healing assessment and monitoring (Wound healing process, TIME theory, etc.) Risk assessment Decubitus and wound healing and nutrition management Decubitus and wound healing and body pressure distribution Decubitus and wound healing and excretion management Treatment guideline based on DESIGN-R Algorithms for treating pressure ulcers and wounds Infection assessment Stage therapy of pressure ulcer healing by stage Assessment of lower limb wounds Treatment of lower limb wounds by disease state Assessment and treatment of wound creation	e-learning
21	Purpose of removing bloodless necrotic tissue in the treatment of pressure ulcers and chronic wounds Indications and contraindications for removal of bloodless necrotic tissue in the treatment of pressure ulcers and chronic wounds Risks associated with removal of bloodless necrotic tissue in the treatment of pressure ulcers and chronic wounds (Adverse events and their countermeasures, etc.) Judgment of removal of necrotic tissue according to DESIGN-R Evaluation of general condition and appropriate judgment of removal (Protein amount, infection risk, etc.) Judgment of boundary between necrotic tissue and healthy tissue	e-learning
22	Types and Purposes of Negative Pressure Therapy for Wounds Indications and contraindications for negative pressure wound therapy for wounds Risks associated with negative pressure wound therapy for wounds (Adverse events and their countermeasures, etc.) Principles of physical therapy	e-learning
23	Local anatomy of the nervous system Major neurological symptoms Major neurological disorders and pathophysiology Physical assessment of major neurological disorders Neurological examination Nervous system clinical pharmacology (Including side effects, tolerance and dependence)	e-learning

<p>評価法・基準 Grading Policies</p>	<p>Evaluation method: Evaluate by periodic test (100%). Criteria: 1. Understand the pathology of important diseases other than those studied in Advanced Surgical Patient Management. 2. Explain the latest treatment theory for each disease. 3. Pre-operative patient management can be performed with a doctor. 4. The assistant and management during the operation can be accompanied by a doctor. 5. Be able to manage patients after surgery with doctors. Feedback: After the quiz by oral examination, a model answer and explanation will be given.</p>		
<p>教科書 Textbook</p>	<p>Will be introduced in the class.</p>	<p>教材・参考書 Reference Book</p>	<p>Year Note Internal Medicine &amp; Surger 岡庭 豊 医療情報科学研究所</p>
<p>オフィス アワー Office Hour</p>	<p>SAKAI Hirotaka : Building 3-6F-621 Friday (16:00~17:00)</p>	<p>連絡先 Contact</p>	
<p>準備学習 Preparation of study</p>	<p>Prepare associated references, and the like with reference to the syllabus before the lecture for around 30 minutes.</p>	<p>履修上の注意 点 Notice for Students</p>	<p>Because each lecture adopts seminar procedures, make an aggressive comment.</p>

## Advanced Topics in Management of Acute Patient

専攻分野 Major Field	Acute phase/ Perioperative period	学年 Grade	1st year	期間 Semester	2nd semester
授業形態 Style	lecture, exercise	単位 Credits	3	時間数 Hours	45
授業方法 Class Methods	face-to-face class	使用言語 Language	Japanese		
担当教員名 Instructor	YAMASHITA Chizuru et al				
科目概要 Course Aims	In the lectures, not only will perioperative management be explained, but you will also widely grasp the general condition of patients in the acute phase and acquire the knowledge necessary to perform appropriate and safe whole-body management. You will also develop problem-solving skills through group work and group discussions, so that you can respond appropriately.				
到達目標 Objectives	The goals of this course are to: -be able to explain perioperative acute clinical conditions and management, including the anesthesia. -be able to explain the main point about whole-body control, including first aid and intensive care.				
回数 Chapters	授業計画 (各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1	General Theory of Perioperative Medicine			YAMASHITA Chizuru	
2	Physical examination and monitoring of perioperative patients			HAYAKAWA Seiko	
3	Pharmacological action and side effects on anesthetics, safety management			KAWAJI Takahiro	
4	General anesthesia			KOMATSU Satoshi	
5	Obstetric anesthesia / pediatric anesthesia			HARA Yoshitaka	
6	Special anesthesia (neurosurgery (cerebral pressure / hypotension anesthesia), Orthopedic surgery (bone cement and tourniquet), urology (TUR), etc.			HARA Yoshitaka	
7	Special anesthesia (cardiovascular surgery (extracorporeal circulation), Respiratory surgery (isolated lung ventilation), endoscopic surgery, etc.			KOMATSU Satoshi	
8	Anesthesia of patients with complications, Transplant anesthesia, emergency surgery anesthesia			KOMATSU Satoshi	
9	Regional dissection on hemodynamics Major symptoms related to hemodynamics Major symptoms related to dehydration and malnutrition Purpose and type of infusion therapy Indication and contraindications for fluid therapy depending on the condition Inspection required for infusion Planning for infusion therapy			KAWAJI Takahiro	
10	Criteria for adjusting the dose of antihypertensive drugs according to the disease state Criteria for adjusting the dose of catecholamine according to the disease state Criteria for adjusting diuretics according to disease state			HAYAKAWA Seiko	

11	Causes and pathophysiology of schizophrenia Symptoms and diagnosis of schizophrenia Types of antipsychotics and clinical pharmacology Indication and usage of various antipsychotics Side effects of various antipsychotics Administration of antipsychotic drugs according to the disease state and its criteria Risk of taking antipsychotics (Adverse events and their countermeasures, etc.)	CHO Taketo
12	Pharmacological action and side effects of drugs used in emergency situations, safety management	IWATA Mitsunaga
13	Physical examination in emergency (trauma)	WATASE Taketo
14	Physical examination in emergency (disaster)	WATASE Taketo
15	Purpose of setting invasive positive pressure ventilation Indications and contraindications for changing the setting conditions of invasive positive pressure ventilation Risks associated with changes in setting conditions for invasive positive pressure ventilation (adverse events and countermeasures)	e-learning
16	Purpose of non-invasive positive pressure ventilation Indications and contraindications for noninvasive positive pressure ventilation Risks associated with changes in noninvasive positive pressure ventilation setting conditions (adverse events and countermeasures, etc.)	e-learning
17	Purpose, indications and contraindications for sedation for those on artificial respiration Risks associated with sedation for persons on mechanical ventilation (adverse events and countermeasures, etc.) Choice and dosage of sedatives for those on mechanical ventilation Methods of sedation for those on artificial respiration	e-learning
18	Purpose of withdrawal from ventilator Indications and contraindications for withdrawal from ventilators Risks associated with withdrawal from the ventilator (Adverse events and their countermeasures, etc.) How to withdraw from the ventilator	e-learning
19	Local anatomy of epidural anesthesia Pathophysiology of major diseases requiring epidural anesthesia Physical assessment of major diseases requiring epidural anesthesia Purpose of epidural anesthesia Indication and contraindications for epidural anesthesia Risks associated with epidural anesthesia (Adverse events and their countermeasures, etc.)	e-learning
20	Topography of diabetes and insulin therapy Pathophysiology of diabetes and insulin therapy Physical assessment of diabetes and insulin therapy Purpose of insulin therapy Testing for diabetes and insulin therapy (Including criteria for introducing insulin therapy)	e-learning
21	Regional dissection on hemodynamics Major symptoms related to hemodynamics Pathophysiology of major diseases requiring pharmacodynamic pharmacotherapy Physical assessment of major diseases requiring hemodynamic drug therapy Purpose and type of infusion therapy Indication and contraindications for fluid therapy depending on the condition Inspection required for infusion Planning for infusion therapy	e-learning

22	Types of antibiotics and clinical pharmacology Indication and usage of various antibiotics Side effects of various antibiotics Types and clinical pharmacology of other drugs used for people with signs of infection Indication and use of various other drugs used in persons with signs of infection Side effects of various other drugs used in people with signs of infection Risk of drug administration for those who have signs of infection (Adverse events and their countermeasures, etc.)	e-learning	
23	Causes and pathophysiology of anxiety disorders Anxiety disorder symptoms / diagnosis Types of anxiolytics and clinical pharmacology Indication and usage of various anxiolytics Side effects of various anxiolytics Judgment criteria for administration of anxiolytics according to disease state Risk of anxiolytic drug administration (adverse events and countermeasures, etc.)	e-learning	
評価法・基準 Grading Policies	Evaluation method: Evaluate by periodic test (100%). Standard: Perform a written test to measure the level of understanding of the goals 1 and 2. Feedback: After the quiz by oral examination, a model answer and explanation will be given.		
教科書 Textbook	Will be introduced in the class.	教材・参考書 Reference Book	麻酔への知的アプローチ (日本医事新報社) 稲田英一、集中治療医学 (秀潤社) 日本集中治療医学会編
オフィス アワー Office Hour	SAKAI Hirotaka : University3-6F-621 Friday (16:00~17:00)	連絡先 Contact	
準備学習 Preparation of study	Prepare associated references, and the like with reference to the syllabus before the lecture for around 30 minutes.	履修上の注意点 Notice for Students	Because each lecture adopts seminar procedures, make an aggressive comment.

## Advanced Topics in Home Medical Care

専攻分野 Major Field	Acute phase/ Perioperative period	学年 Grade	1st year	期 間 Semester	2nd semester
授業形態 Style	lecture, exercise	単位 Credits	1	時間数 Hours	15
授業方法 Class Methods	face-to-face class	使用言語 Language	Japanese		
担当教員名 Instructor	SAKAI Hirotaka, KAWAKAMI Tomomi, KONDO Keita, KATO Kokoro, HASHIKAWA Yuri, KAN Kiho				
科目概要 Course Aims	We will provide lectures on establishing a 'Community-based Integrated Care System' in a super aging society, a characteristic of visiting care and home medical care. We will provide lectures on both palliative care at home and informed consent, as well as exercises on major medical procedures at home, tracheal cannula replacement, fistula management of the catheter placement, and administration of insulin preparations for glycemic control. We will develop problem-solving skills and be able to take appropriate actions through group work and group discussion.				
到達目標 Objectives	The goals of this course are to: (1) be able to explain the community-based integrated care system. (2) be able to explain a medical examination, clinical diagnosis in the treatment, and the characteristics of treatment at home. (3) be able to manage the medical treatments (tracheal cannula, catheter, blood sugar with insulin) to be provided at home. (4) be able to present at palliative care and end of life care at home. (5) be able to explain informed consent.				
回数 Chapters	授業計画 (各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1	Community medical care, nursing Establishing the community-based Integrated Care System			KAWAKAMI Tomomi	
2	Characteristic of clinical diagnosis, the treatment of the medical care at home			KAN Kiho	
3	Physical examination by the medical care at home			KONDO Keita	
4	Specificity of clinical diagnosis and treatment of home medical care			KONDO Keita	
5	Physical examination of the elderly (provisional)			KATO Kokoro	
6	Specificity of clinical diagnosis and treatment for the elderly (provisional)			HASHIKAWA Yuri	
7	Palliative care at home			KAN Kiho	
8	Community-based integrated care Theory, practice of informed consent			SAKAI Hirotaka	
評価法・基準 Grading Policies	Grading: final exam (100%). Kan25%、Watanabe50%、Kitamura25% Perform a written exam to assess comprehension of goals 1 to 5. Feedback: Conduct a quiz with an oral test and then give a model answer explanation.				
教科書 Textbook	Will be introduced in the class.		教材・参考書 Reference Book		
オフィス アワー Office Hour	SAKAI Hirotaka: Building 3-6F-621 Friday (16:00~17:00)		連絡先 Contact		
準備学習 Preparation of study	Prepare associated references, and the like with reference to the syllabus before the lecture for around 30 minutes.		履修上の注意点 Notice for Students	Because each lecture adopts seminar procedures, make an aggressive comment.	

## Seminars in Acute and Surgical Patient Management

専攻分野 Major Field	Acute phase/ Perioperative period	学年 Grade	1st year	期 間 Semester	2nd semester
授業形態 Style	lecture, exercise, practice	単位 Credits	2	時間数 Hours	60
授業方法 Class Methods	face-to-face class	使用言語 Language	Japanese		
担当教員名 Instructor	SAKAI Hirotaka et al				
科目概要 Course Aims	The stage before unification training begins in the second grade. We conduct simulation training using practice models and paper patients (surgical basic surgical procedures including suturation, the ligation, various drain management, endotracheal intubation, respirator wearing and management, security and management of arterial line, the middle cardiac vein line, grasp, etc. of the physical examination). Through group work and group discussion, develop the ability to find solutions to problems.				
到達目標 Objectives	We will understand perioperative specificity to clear the perioperative period of the patients safely, and wear the ability that takes care of the patients until a physician can cope appropriately. 1. A perioperative characteristic is described. 2. Gain the suitable communication skills for a selected nurse. 3. We can use basic practice skills as a selected nurse. 4. We get a certain level of responsibility as a member of the team.				
回数 Chapters	授業計画 (各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1	How to look up and use medical literature			YUKAWA Nozomi	
2	A process of the practice and practice and role playing (Practice) of the theory medical care interview of the medical interview			ARAKAWA Satoshi	
3	<ul style="list-style-type: none"> <li>• Purpose of the drawing blood by the direct arterial puncture</li> <li>• Adaptation and contraindication of the drawing blood by the direct arterial puncture</li> <li>• Risk with site of puncture and the puncture (an adverse event and the measures, and the like)</li> <li>• Choice of the site of puncture suitable for the patients</li> </ul> Procedure of the drawing blood by the direct arterial puncture			HIBINO Masaya	
4	<ul style="list-style-type: none"> <li>• Purpose of the securing of arterial line</li> <li>• Adaptation and contraindication of the securing of arterial line</li> <li>• Risk accompanied with site of puncture and puncture and the custody (an adverse event and the measures, and the like)</li> <li>• Choice of puncture suitable for the patients and the custody site</li> </ul> Procedure of the securing of radial artery line			HIBINO Masaya	
5	Thread knot of the wound			TANIDA Shinichi	
6	Wound suture			TANIDA Shinichi	
7	Indications and contraindications for chest tube removal Risks associated with removal of chest tube (Adverse events and countermeasures, etc.) Methods and procedures for removing chest tubes			ISHIZAWA Hisato	
8	<ul style="list-style-type: none"> <li>• Method of the operation of the percutaneous cardiopulmonary support and the management</li> <li>• Method of operation of the intraaortic balloon pumping and the management</li> </ul> Method of operation of the secession from intraaortic balloon pumping and the management			TAKAMI Yoshiyuki	

9	<ul style="list-style-type: none"> <li>• A choice and the epidural anesthetic agent doses</li> </ul> Method of the adjustment of administration of pain-killer by the peridural catheter and the dose	YAMASHITA Chizuru
10	Criteria for adjusting the administration of sodium, potassium or chlor by continuous infusion according to the pathological condition Criteria for adjusting carbohydrate infusion and electrolyte infusion according to the pathological condition	KAWAJI Takahiro
11	<ul style="list-style-type: none"> <li>• Criterion of the adjustment of the insulin preparation depending on clinical condition</li> <li>• Risk of the adjustment of insulin doses depending on clinical condition (an adverse event and the measures, and the like)</li> <li>• Adaptation of insulin therapy and the hospitalization in the outpatient department</li> </ul> Explanation to the patients about the insulin therapy	FUJISAWA Haruki
12	<ul style="list-style-type: none"> <li>• Topography about the undernutrition state</li> <li>• A cause and pathophysiology of the undernutrition state</li> <li>• Physical assessment about the undernutrition state</li> <li>• Examination about the undernutrition state</li> <li>• A type of the hyperalimentation and clinical reactions of drugs</li> <li>• Adaptation and usage of the hyperalimentation</li> <li>• A side effect and evaluation of the hyperalimentation</li> <li>• Criterion of the hyperalimentation</li> <li>• Risk of a judgment and the hyperalimentation of the undernutrition state (an adverse event and the measures, and the like)</li> </ul> Dietetics about the hyperalimentation	FUTAMURA Akihiko
13	<ul style="list-style-type: none"> <li>• Topography about the catheter for the peripheral custody type middle cardiac vein injection</li> <li>• Pathophysiology of the primary disease to need the catheter for the peripheral custody type middle cardiac vein injection</li> <li>• Physical assessment of the primary disease to need the catheter for the peripheral custody type middle cardiac vein injection</li> <li>• Purpose of the catheter for the peripheral custody type middle cardiac vein injection</li> <li>• Adaptation and contraindication of the catheter for the peripheral custody type middle cardiac vein injection</li> </ul> Risk with the catheter for the peripheral custody type middle cardiac vein injection (an adverse event and the measures, and the like)	SAKAI Hirotaka
14	<ul style="list-style-type: none"> <li>• Adaptation and contraindication of the insertion of the catheter for the peripheral custody type middle cardiac vein injection</li> <li>• Risk (an adverse event and the measures, and the like) accompanied with the insertion of the catheter for the peripheral custody type middle cardiac vein injection</li> </ul> A method and procedure of the insertion of the catheter for the peripheral custody type middle cardiac vein injection	SAKAI Hirotaka
15	<ul style="list-style-type: none"> <li>• Method of the removal of the necrotic tissue without the blood flow in the treatment of a pressure sore and the chronic wound</li> </ul> Hemostasis method of bleeding with the removal of the necrotic tissue which there is not of the blood flow in the treatment of a pressure sore and the chronic wound	TSUKAMOTO Takako
16	<ul style="list-style-type: none"> <li>• Method of the negative pressure closed treatment for the wound</li> </ul> Hemostasis method of bleeding with the negative pressure closed treatment for the wound	NAGAYA Masumi
17	Criteria of the medication for the person with the infection sign depending on clinical condition	HONDA Hitoshi

18	<ul style="list-style-type: none"> <li>• Pathophysiology when anticancer drug or other drugs leaked outside a blood vessel</li> <li>• A symptom and diagnosis when anticancer drug or other drugs leaked outside a blood vessel</li> </ul> <p>Adaptation of the local injection of the steroid medicine when anticancer drug or other drugs leaked outside a blood vessel and adjustment of usage and the dose</p>	KAWADA Kenji
19	Ventilator management (adjustment of the position of the tracheal tubes)	MATSUDA Nana
20	Tracheal cannula exchange	MATSUDA Nana
21	<ul style="list-style-type: none"> <li>• Topography about gastric fistula, intestinal fistula and the bladder fistula</li> </ul>	e-learning
22	<ul style="list-style-type: none"> <li>• Pathophysiology of the primary disease to need gastric fistula, intestinal fistula and a bladder fistula</li> <li>• Physical assessment of the primary disease to need gastric fistula, intestinal fistula and a bladder fistula</li> </ul>	e-learning
23	<ul style="list-style-type: none"> <li>• Purpose of gastric fistula and the intestinal fistula</li> <li>• Adaptation and contraindication of gastric fistula and the intestinal fistula</li> <li>• Risk (an adverse event and the measures, and the like) with gastric fistula and the intestinal fistula</li> <li>• Evaluation about the nutrient</li> <li>• Decision making guidelines on gastrostomy</li> </ul> <p>Type of gastric fistula and the intestinal fistula ostomy</p>	MATSUDA Nana
24	<ul style="list-style-type: none"> <li>• A type and characteristic of gastric fistula, an intestinal fistula catheter and the gastric fistula button</li> <li>• Time of the exchange of gastric fistula, an intestinal fistula catheter and the gastric fistula button</li> </ul> <p>Method of the exchange of gastric fistula, an intestinal fistula catheter and the gastric fistula button</p>	MATSUDA Nana
25	<ul style="list-style-type: none"> <li>• Purpose of the bladder fistula</li> <li>• Adaptation and contraindication of the bladder fistula</li> <li>• Risk (an adverse event and the measures, and the like) with the bladder fistula</li> <li>• Cystostomy</li> <li>• A type and characteristic of the bladder fistula catheter</li> <li>• Time of the exchange of the bladder fistula catheter</li> </ul> <p>Method of the exchange of the bladder fistula catheter</p>	SAKAI Hirota
26	Making practice of the manual to make with a physician	e-learning
27	<ul style="list-style-type: none"> <li>● Making practice of the manual</li> <li>● We examine an evaluation and the remedy of the manual</li> </ul>	MATSUDA Nana
28	Structure of the practice process of a specific act Clinical reasoning: Learn assessment, hypothesis testing, decision-making theory, testing and diagnostic processes	HIROSUE Miyuki
29	Clinical Reasoning: Assessment, Hypothesis Testing, Decision Making Exercises	HIROSUE Miyuki
30	<ul style="list-style-type: none"> <li>• A mechanism and type, structure of hemodialyzer and the haemodialysis filter</li> </ul> <p>A choice and adaptation of the method of haemodialysis and the haemodialysis filter</p>	e-learning
31	Method of the operation of haemodialysis and the haemodialysis filter and the management	e-learning

32	OSCE title: It is justified the tube Tracheal cannula exchange	HAYASHI Mutsuharu SAKAI Hiroataka MATSUDA Nana External teacher 2	
33	OSCE title: Direct arterial puncture Securing of radial artery line Necrotomy	HAYASHI Mutsuharu SAKAI Hiroataka MATSUDA Nana External teacher 2	
34	OSCE title: PICC insertion Gastric fistula, intestinal fistula catheter button exchange Bladder fistula catheter exchange	HAYASHI Mutsuharu SAKAI Hiroataka MATSUDA Nana External teacher 2	
評価法・基準 Grading Policies	Evaluation method: 10% of written examinations, OSCE 80% and observation evaluation 10% criteria: We perform a written examination, OSCE and measure an understanding degree of arrival target 1-4. Feedback: After the small test enforcement by the oral examination, we conduct a model answer, a commentary.		
教科書 Textbook	Will be introduced in the class.	教材・参考書 Reference Book	・ベイツ診察法 Bates' Guide to Physical Examination and History Taking 9 <sup>th</sup> Ed. Lynn S. Bickley 福井次矢 井部俊子 訳 メディカル・サイエンス・インターナショナル ・メディカルインタビュー(三つの機能モデルによるアプローチ 第2版 Steven A. Cole, Julian Bird 飯島克己 佐々木将人 訳 メディカル・サイエンス・インターナショナル
オフィス アワー Office Hour	SAKAI Hiroataka : Building 3 -6F-621 Friday (16:00~17:00)	連絡先 Contact	
準備学習 Preparation of study	Prepare associated references, and the like with reference to the syllabus before the lecture for around 30 minutes.	履修上の注意点 Notice for Students	By the simulation learning, you regard an object as human, and you are sincere, and practice it.

## Clinical Practicum in Home Medical Care

専攻分野 Major Field	Acute phase/ Perioperative period	学年 Grade	2nd year	期 間 Semester	2nd semester
授業形態 Style	practice	単位 Credits	1	時間数 Hours	45
授業方法 Class Methods	face-to-face class	使用言語 Language	Japanese		
担当教員名 Instructor	OSUGI Yasuhiro, KONDO Keita, SAKAI Hirotaka				
科目概要 Course Aims	<p>We join visiting practice, temporary nursing at home, and perform the health assessments included in the 24-hour life of the person in home care.</p> <p>We learn the procedures and medical care necessary for the specific practice of being at home. We receive practical training about the cooperation, policies, and information sharing regarding each specialist job of health, medical care, and welfare led by a medical practitioner.</p>				
到達目標 Objectives	<p>The goals of this course are to</p> <ol style="list-style-type: none"> <li>1. Provide a healthy assessment of how the home care person receiving visiting practice can be cared for.</li> <li>2. Understand medical examinations, clinical diagnoses, treatment at home, and be able to make assessments regarding this.</li> <li>3. Learn about the procedures and medical care that are necessary for the specific act of practicing home care for patients with high medical dependence.</li> <li>4. Describe the cooperation and the information sharing roles each specialist in health, medical care, and welfare.</li> <li>5. Describe the role that a selected nurse in the treatment at home should fulfil.</li> </ol>				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1-23	<p>We complete an acute phase, surgical patients management unification training in the university hospital and we go together for visit practice, temporary nursing at home as a choice unit for one week and receive practical training.</p> <p>When they conduct the practical skill for the patients, the 1 symptom eyes perform the visit of the act that a leader conducts by all means or a help. We practice it subsequently only when permission of the enforcement is obtained by the judgment of the leader directly.</p> <p>We are accompanied by practice, clinical diagnosis, a process of the treatment to a physician and receive practical training.</p> <p>We join temporary nursing at home and learn about the nursing intervention in the area, the use of the social resource, cooperation, the information sharing with each specialty type of job.</p> <p>We perform the healthy assessment of the home care person through visit practice, temporary nursing at home and examine the role that nurse identification in the treatment at home should carry out.</p>			<p>OSUGI Yasuhiro</p> <p>KONDO Keita</p> <p>SAKAI Hirotaka</p>	
評価法・基準 Grading Policies	<p>Evaluation method:</p> <ol style="list-style-type: none"> <li>①Bedside teaching approach posture evaluation list (50 points)</li> <li>②Clinical competence evaluation list (50 points)</li> <li>③Specific act skill evaluation list (when we conduct a specific act, we evaluate it) criteria: We measure an arrival degree of arrival target 1-5.</li> </ol> <p>Feedback: After the small test enforcement by the oral examination, we conduct a model answer, a commentary.</p>				

教科書 Textbook	Each diagnosis and treatment department	教材・参考書 Reference Book	Each diagnosis and treatment department
オフィス アワー Office Hour	SAKAI Hirotaka : Building 3-6F-621 Friday (16:00~17:00)	連絡先 Contact	
準備学習 Preparation of study	Grasp of the patients who will be in charge tomorrow	履修上の注意点 Notice for Students	You explain own social position to a user of the at-home practice, the family, and obtain permission of a visit, the enforcement.

## Comprehensive Clinical Training in Acute and Surgical Patient Treatment

専攻分野 Major Field	Acute phase/ Perioperative period	学年 Grade	2nd year	期 間 Semester	full year
授業形態 Style	practice	単位 Credits	19	時間数 Hours	855
授業方法 Class Methods	face-to-face class	使用言語 Language	Japanese		
担当教員名 Instructor	NISHIDA Osamu, SUDA Kouichi, HOSHIKAWA Yasushi, IWATA Mitsunaga, SUZUKI Atsushi, HAYASHI Mutsuharu, SAKAI Hiroataka Other surgical doctors and teachers (in no particular order)				
科目概要 Course Aims	<p>It becomes the content that surpassed "the specific act training system of the nurse" that Ministry of Health, Labour and Welfare advances by mass together.</p> <p>With the comprehensive instructions of the physician, we conduct training to carry the physician's performance of the constant range during the acute phase, the perioperative period, but base it on an ability of the patients care as the nurse. Ro Tate does unification surgery, cardiovascular surgery, respiratory surgery dep, a first aid, ER, anesthesia, an intensive care. By the hope of the student, the choices such as neurosurgery, the orthopedics, and the like are possible in certain instances, too. However, the consent of each medical office is necessary. We perform the clinical conference once in two weeks in all the members (we enroll it in a problem study). We acquire the symptomatology in total. Through group work and group discussion, develop ability for solution to the problem, and is appropriate; can deal.</p>				
到達目標 Objectives	<p>The goals of this course are to</p> <ol style="list-style-type: none"> <li>1. Based on the basic matter which the enforcement of the specific act that we learned in the first year requires, we can extend for acquirement of the ability for understanding and ideation of the underlying knowledge that enforcement requires and underlying practice more.</li> <li>2. We conduct training by the direct instructions of the physician and are connected with comprehensive instructions.</li> <li>3. We take charge and can report a diagnosis, the treatment of the patients briefly and precisely and can reason by problems, and the like.</li> <li>4. Relief, the role that a selected nurse (acute phase, the perioperative period) should fulfil for the safe patients practice is described.</li> <li>5. Specific act 38 items, the acquirement for 21 wards of identification.</li> </ol> <p>* We take charge with an attending physician, and the self-introduction to the patients is carried out precisely and obtains the permission from the patients.</p>				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)				
1-428	<p>The inpatients take charge of a discharge from hospitalization and, as well as the patients, perform a family, training that to add social background, and the like, and relief aims at the safe medical care and performs help of the practice of the physician. Also, it promotes it without forgetting a viewpoint of the nursing to think about something with the identity as the practice nurse, and to act.</p> <p>In all training, we learn a process of the practice than an attending physician based on the learning content that we acquired in a lecture. Also, we learn the theory about various examinations conducted by a clinic than an attending physician. A clinic reasons subsequently while performing assessment based on the information that practices various examination data - and physical assessment, and was obtained, and receiving instruction from an attending physician. When we suspect infection, and the like, we train it to choose a drug immediately. Also, when disease and the neurologic symptoms of the psychiatry region are detected, with appropriate medication and examination data together, careful assessment and clinic reason and receive practical training to cope appropriately.</p> <p>The medical interview attends an attending physician and learns it and receives instruction. By the instructions of the attending physician, we actually conduct a medical interview subsequently.</p>				

We conduct training learning for triage based on accurate clinical condition grasp, a judgment of the emergency in a critical care center, the emergency visit. We receive practical training in the training to differentiate it, and to perform efficient lifesaving emergency care with a mild case and the severe case by the direct intervention of the physician that oneself can perform in by the comprehensive instructions of the physician. We receive practical training in training to perform grasp of the severity, arrhythmia surveillance, management, grasp, examination plan planning of the physical examination of the emergency patient, the screening test by the instructions of the physician, an adjuvant of chest X-ray, CT, the MRI interpretation, securing of arterial line, artificial breathing management, circulatory dynamics monitoring, assistance at the catheterization, transesophageal ultrasonography preparations, probe insertion assist, the circulatory dynamics measurement, and the like with the Swan-Ganz catheter detained beforehand.

We collaborate with a physician and, in the surgical cure, are in charge of assistants, and the like of the surgery and conduct the training training of the general patient care (stability of circulatory dynamics, postoperative pain management, moisture receipt and disbursement balance adjustment, respiratory care, wound treatment, thoracoab dominal part, cardiac sac drain management) based on the comprehensive instructions of the physician in the preoperative postoperative care. By surgery or the treatment, and the like, we receive practical training in assistant and central venous catheter withdrawal or the PICC insertion, and the like of the surgery under the direct instruction of the physician by a physician judging degree of the specific ability of the nurse who received education. In the wards, and the like, we grasp overall status, and, based on the comprehensive instructions of the physician, judgments severe primarily such as an adjustment of a drug and the transfusion, direct arterial puncture drawing blood, various drain management, withdrawal, and the like receive practical training in training to perform a necessary act depending on clinical condition. However, it is the perioperative field, but we are often complicated with endocrine disease postoperatively preoperation, and learning, the acquisition of this field including an adjustment of the insulin dose and the adjustment of a diet, the volume of infusion is demanded an acute phase, too. Also, about the pressure sore treatment, we examine it with a physician, and, at need, necrotomy and negative pressure closed treatment are provided and receive practical training to act for the improvement. We receive practical training about the correspondence when a drug leaked during intravenous feeding enforcement. We receive practical training about gastric fistula, catheter exchange of the intestinal fistula, the exchange method of the gastric fistula button, bladder fistula catheter exchange.

In the anesthesia medical care, we receive practical training in training assisting the anesthesia by the direct instructions of the anesthesiologist as a member of the perioperative anesthesia team primarily. Therefore, from the choice of the preanesthetic tracheal tube, we justify it and receive practical training in the securing, and the like of radial artery line. We receive practical training about assessment of the information to be obtained from maintenance of the anesthesia and the management method of the respirator, management and monitoring of the transfusion during anesthesia. Also, we receive practical training in extubation, manual ventilation using the back valve mask, analgesia management, and the like from the secession of the respirator for the postoperative awakening.

In the I ICU training, we receive practical training about medication and transfusion management and breathing (respirator, NPPV) management, management, the circulation management (PCPS, IABP, haemodialysis, pacemaker) of sedative doses to influence circulatory dynamics. We receive practical training in the tracheal cannula exchange, and the like to the patients becoming the artificial haustorium management for a long term. All are Exercise: with an attending physician beforehand After having performed this, we conduct the observer of the attending physician, the real operation and act.

When we always act with giving first priority to medical security during training and hesitate about a judgment, we practice it after obtaining confirmation and the instruction to an attending physician.

<p>評価法・基準 Grading Policies</p>	<p>Evaluation method: An observation evaluation and a practical examination, an oral examination, the written examination, and the like by each charge department. Two times a month of case announcement (HAYASHI Mutsharu evaluates it and reports it in each subject). Criteria: 1. Specific act 38 items, the acquisition for 21 wards of identification. It becomes one of the graduate school completion requirements. 2. We can explain the meaning of comprehensive instructions. 3. We can explain pathophysiology to the patients without forgetting a viewpoint of the nursing. 4. We can have the awareness as the member of the team approach in medical care. 5. The role that a selected nurse (acute phase, the perioperative period) should fulfil is described. 6. We take charge and can report a diagnosis, the treatment of the patients briefly and precisely and can reason by problems, and the like. Feedback: After the small test enforcement by the oral examination, we conduct a model answer, a commentary.</p>		
<p>教科書 Textbook</p>	<p>Each diagnosis and treatment department</p>	<p>教材・参考書 Reference Book</p>	<p>Each diagnosis and treatment department</p>
<p>オフィス アワー Office Hour</p>	<p>SAKAI HirotaKa : Building 3 -6F-621 Friday (16:00~17:00)</p>	<p>連絡先 Contact</p>	
<p>準備学習 Preparation of study</p>	<p>Grasp of the patients who will be in charge tomorrow</p>	<p>履修上の注意点 Notice for Students</p>	<p>Serve which course for the information exchange between students during Rotate. This ability is candidates for the evaluation, too.</p>

## Master's Research in Acute and Perioperative Period

専攻分野 Major Field	Acute phase/ Perioperative period	学年 Grade	2nd year	期 間 Semester	full year
授業形態 Style	lecture, exercise	単位 Credits	5	時間数 Hours	150
授業方法 Class Methods	face-to-face class	使用言語 Language	Japanese		
担当教員名 Instructor	HAYASHI Mutsuharu, SAKAI Hirotaka UENISHI Norimichi, ITO Masahiro, FUNABIKI Tomohiro				
科目概要 Course Aims	<p>From the perspective of a team approach in medical care, we study the problems regarding perioperative care, emergency care, disaster medical care, highly advanced medical treatment (robot surgery, transplant medical care, minimally invasive surgery, auxiliary artificial heart treatment, etc.), medical care security, medical care economy, training, and, based on knowledge, the technique that each obtained in seminar, practice, training, and making announcements. In addition, we learn about how diagnoses (including the symptom), treatment, nursing, and other factors affect a study widely.</p> <p>By about late 1, we learn pharmacodynamics, the clinicopathology associated with the study, and a class associated with the clinical diagnosis.</p> <p>Through group work and group discussion, develop the ability to find solutions to problems.</p>				
到達目標 Objectives	<ol style="list-style-type: none"> <li>1. Learn about the problems that we are given by teachers or other students, and learn about methods to solve problems and take action by oneself.</li> <li>2. Give clear presentations on each problem.</li> <li>3. In terms of case reports, sufficiently obey the personal information protection of patients.</li> <li>4. Obey sufficient ethic rules in presenting the results of the study.</li> </ol>				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
2nd year:1st semester (90 hours:45chapters)					
14-45	<p>(first stage) We do that we understand circumstances and the situation inside and outside the present that led to the start of "an acute phase, the perioperative field" where the student belongs to with initial learning. We learn a method and methods of study of the document retrieval in libraries, and the like. We determine a research theme from some candidates and build a study strategy with an instructor. The group learning is possible, too</p> <p>(secondary stage) Because a bedside teaching is started, we start the case study that we were interested or a teacher appointed. We explain so it to the patients and demand understanding and leave it for a sentence. The first study continues. We conduct a case presentation at frequency 2 times in one month and discuss problems, and the like.</p>			<p>HAYASHI Mutsuharu SAKAI Hirotaka UENISHI Norimichi ITO Masahiro FUNABIKI Tomohiro</p>	
2nd year:2nd semester (60 hours:30 chapters)					
46-75	<p>(third period) The stage of the summary. We submit the point at a graduate school master's thesis presentation and announce it. If a treatise can be completed, we submit it. When we conduct multiple problem studies including a case report, we publish a representative study.</p>			<p>HAYASHI Mutsuharu SAKAI Hirotaka UENISHI Norimichi ITO Masahiro FUNABIKI Tomohiro</p>	

<p>評価法・基準 Grading Policies</p>	<p>Evaluation method: We evaluate it by presentation of the results of the study, study contents, a method, and the like. A rating system of late 1: We evaluate it on a periodical test (we evaluate it in for each 100%). It is criteria (pharmacodynamics 1-13: for 90 minutes specificity 14-20 of clinicopathology, clinical diagnosis and the treatment: for 60 minutes): 1. About a problem, we think about a method to problem solving by oneself and we search it and learn it and can be provided. 2. We can announce it clearly. 3. We can obey the personal information protection of the patients enough. 4. We can obey ethic rule in the presentation of the results of the study enough. Feedback: After the small test enforcement by the oral examination, we conduct a model answer, a commentary.</p>		
<p>教科書 Textbook</p>		<p>教材・参考書 Reference Book</p>	
<p>オフィス アワー Office Hour</p>	<p>SAKAI Hirotaka : Building 3 -6F-621 Friday (16:00~17:00)</p>	<p>連絡先 Contact</p>	
<p>準備学習 Preparation of study</p>	<p>Face a study after searching a reference book, references, and having deepened the knowledge of the applicable field.</p>	<p>履修上の注 意点 Notice for Students</p>	<p>We improve ability to discover problems and a solution by oneself. Also, we realize it what kind of thing the study is and want you to consider the announcement in various societies, the treatise making.</p>

## Bioethics in Organ and Tissue Transplantation

専攻分野 Major Field	Transplant coordination	学年 Grade	1st year	期 間 Semester	2nd semester
授業形態 Style	Lecture / Seminar	単位 Credits	2	時間数 Hours	30
授業方法 Class Methods	Remote class	使用言語 Language	Japanese		
担当教員名 Instructor	ASAI Tomoko, HASEGAWA Tomonori, AKASHI Yuumi, SOEDA Etsuko, MIYASHITA Terumi, OMIYA Kaori, KOKETSU Kazue, KENMOCHI Takashi				
科目概要 Course Aims	This course deals with the laws and regulations, ethical principles, code of ethics, and ethical issues related to transplantation. The aim of the course is to help students learn about the organ distribution system in Japan and other countries, understand the system of organ donation and allocation in Japan, and develop the ability to support autonomous decision-making by demonstrating their sense of ethics through actions and attitudes. Conduct discussions on topics covered during lectures.				
到達目標 Objectives	<p>The goals of this course are to</p> <ul style="list-style-type: none"> <li>- be able to acquire ethical sensitivity based on the knowledge on the laws and regulations, ethical principles, code of ethics, and ethical issues related to transplantation</li> <li>- be able to explain the system of organ donation and allocation in Japan</li> <li>- be able to demonstrate their sense of ethics through actions and attitudes</li> <li>- be able to acquire the ability to support autonomous decision-making</li> </ul>				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1	Organ transplant laws and regulations			ASAI Tomoko	
2	Ethics of transplantation			HASEGAWA Tomonori	
3	Roles of donor coordinators			AKASHI Yuumi	
4	Roles of recipient transplant coordinators			SOEDA Etsuko	
5	Surrogate decision-making			MIYASHITA Terumi	
6	Basic concepts of informed consent			ASAI Tomoko	
7	Roles of the government for transplantation			ASAI Tomoko	
8	Roles of Japan Organ Transplant Network			OMIYA Kaori	
9	Organ donation and allocation system			ASAI Tomoko	
10	Tissue donation and allocation system			AKASHI Yuumi	
11	Medical expenses for transplantation and social welfare			ASAI Tomoko	
12	Pediatric organ donation			ASAI Tomoko	
13	Hospital management for organ donation			KOKETSU Kazue	
14	Academic activities			KENMOCHI Takashi	
15	Public and school education			AKASHI Yuumi	
評価法・基準 Grading Policies	Your overall grade in the class will be decided based on attendance and attitude. Feedback of discussion will be provided by each instructor.				

教科書 Textbook	Regimen will be provided in the class.	教材・参考書 Reference Book	
オフィス アワー Office Hour	Each instructor will answer questions after the class. ASAI Tomoko: 21:10-21:30, Monday at 608, building 3. AKASHI Yuumi: 21:10-21:30, Monday at 628, building 3.	連絡先 Contact	
準備学習 Preparation of study	Students are expected to read the documents and check the technical terms for 30 minutes before class, and to summarize the class for 30 minutes after the class.	履修上の 注意点 Notice for Students	You will try to share your knowledge and clinical experiences with others in the class and understand in association with your clinical experiences.

## Principles of Organ and Tissue Transplantation

専攻分野 Major Field	Transplant coordination	学年 Grade	1st year	期間 Semester	1st semester
授業形態 Style	Lecture / Seminar	単位 Credits	2	時間数 Hours	30
授業方法 Class Methods	Remote class	使用言語 Language	Japanese		
担当教員名 Instructor	KENMOCHI Takashi, AKASHI Yuumi, JINGUSHI Naruhiro, HAYAKAWA Motoharu, KAWAJI Takahiro, ITO Taihei, MATSUDA Yasufumi, FUKAMI Naohiko, TAKENAKA Masashi, OYABU Tatsunori, OKOCHI Tomo				
科目概要 Course Aims	This course deals with medical knowledge of transplantation. Specifically, students will learn about the history of transplantation, the indications of organ transplantation, organ transplantation surgery and perioperative complications, post-transplant infections, immune system, drugs, psychiatric aspects of organ transplantation, examination and care required at each stage of organ transplantation, the pathogenesis and the determination of brain death, and the organ donation and transplantation system. Conduct discussions on topics covered during lectures.				
到達目標 Objectives	The goal of this course is to be able to understand medical knowledge of transplantation.				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1	Basics of organ donation and transplantation			KENMOCHI Takashi	
2	Basics of tissue donation and transplantation			AKASHI Yuumi	
3	Organ donation at the end stage of acute medicine			JINGUSHI Naruhiro	
4	Indications and contraindications of organ transplantation			AKASHI Yuumi	
5	Pathogenesis and determination of brain death			KAWASE Tsukasa	
6	Donor management (BDD/DCD)			KAWAJI Takahiro	
7	Entire process of organ recovery (BDD/DCD)			ITO Taihei	
8	Tissue donation (differences from organ donation)			AKASHI Yuumi	
9	Histocompatibility			KENMOCHI Takashi	
10	Heart and lungs transplantation			MATSUDA Yasufumi	
11	Liver, pancreas, kidneys and intestine transplantation			KENMOCHI Takashi	
12	Immune system and rejection			FUKAMI Naohiko	
13	Immunosuppressant drugs			TAKENAKA Masashi	
14	Post-transplant infections			OYABU Tatsunori	
15	Roles of psychiatrist for organ transplantation			OKOCHI Tomo	
評価法・基準 Grading Policies	Your overall grade in the class will be decided based on attendance and attitude. Feedback of discussion will be provided by each instructor.				

教科書 Textbook	Regimen will be provided in the class.	教材・参考書 Reference Book	Japan transplant coordinator organization: Workbook for recipient transplant coordinator, ADTHREE publishing company
オフィス アワー Office Hour	Each instructor will answer questions after the class. AKASHI Yuumi: 21:10-21:30, Monday at 628, building 3.	連絡先 Contact	
準備学習 Preparation of study	Students are expected to read the documents and check the technical terms for 30 minutes before class, and to summarize the class for 30 minutes after the class.	履修上の 注意点 Notice for Students	Ask questions in a proactive manner.

## Advanced Topics in Transplant Coordination

専攻分野 Major Field	Transplant coordination	学年 Grade	1st year	期 間 Semester	1st semester
授業形態 Style	Lecture / Seminar	単位 Credits	2	時間数 Hours	30
授業方法 Class Methods	Remote class	使用言語 Language	Japanese		
担当教員名 Instructor	ASAI Tomoko, AKASHI Yuumi, KOKETSU Kazue, TASAKI Ayumi, SOEDA Etsuko, AKIBA Miki, MARU Mitsue				
科目概要 Course Aims	This course deals with the roles of transplant coordinators and the interviewing techniques that are essential for a transplant coordinators. Specifically, students will learn about organ transplant registration procedures, the process and coordination of donations and transplant, the role of the organ transplant network and medical departments inside and outside the institution, recipients and living donors, and the brain-dead organ donation process and coordination. Conduct discussions on topics covered during lectures.				
到達目標 Objectives	The goals of this course are to - be able to understand the roles of transplant coordinator - be able to acquire interviewing techniques				
回数 Chapters	授業計画 (各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1	Process and coordination of organ donation (BDD/DCD)			ASAI Tomoko	
2	Process and coordination of tissue donation			AKASHI Yuumi	
3	Approaching potential donor family			AKASHI Yuumi	
4	Development of in-hospital system for organ-tissue donation			ASAI Tomoko	
5	Donor family care			ASAI Tomoko	
6	Coordinator's intervention and support for family in critical situation			KOKETSU Kazue	
7	Process and coordination of pediatric transplantation			TASAKI Ayumi	
8	Process and coordination of living donation and transplantation			SOEDA Etsuko	
9	Practice of transplant coordinators (heart and lungs)			AKIBA Miki	
10	Practice of transplant coordinators (liver and intestine)			SOEDA Etsuko	
11	Practice of transplant coordinators (pancreas and kidneys)			TANIGUCHI Mikako	
12	Adherence			MARU Mitsue	
13	Theory of interviewing techniques for transplant coordinators			ASAI Tomoko	
14	Practicing interview techniques for donor coordinators			AKASHI Yuumi	
15	Practicing interview techniques for recipient transplant coordinators			TASAKI Ayumi	
評価法・基準 Grading Policies	Your overall grade in the class will be decided based on attendance and attitude. Feedback of discussion will be provided by each instructor.				
教科書 Textbook	Regimen will be provided in the class.		教材・参考書 Reference Book		

<p>オフィス アワー Office Hour</p>	<p>Each instructor will answer questions after the class. ASAI Tomoko: 21:10-21:30, Monday at 608, building 3. AKASHI Yuumi: 21:10-21:30, Monday at 628, building 3.</p>	<p>連絡先 Contact</p>	
<p>準備学習 Preparation of study</p>	<p>Students are expected to read the documents and check the technical terms for 30 minutes before class, and to summarize the class for 30 minutes after the class.</p>	<p>履修上の 注意点 Notice for Students</p>	<p>Ask questions in a proactive manner and try to understand in association with your clinical experiences.</p>

## Seminars in Recipient Transplant Coordinator

専攻分野 Major Field	Transplant coordination	学年 Grade	2nd year	期 間 Semester	1st semester
授業形態 Style	Seminar / Group work	単位 Credits	2	時間数 Hours	60
授業方法 Class Methods	In-person class	使用言語 Language	Japanese		
担当教員名 Instructor	ASAI Tomoko, AKASHI Yuumi				
科目概要 Course Aims	This course deals with the roles of recipient transplant coordinators through case study and simulation learning, as well as communication skills that are essential for recipient transplant coordinators. Specifically, students will learn about decision-making support for patients and families, consultation with the medical team, longitudinal care, and practice and coordination of the transplant process. Conduct discussions on topics covered during lectures.				
到達目標 Objectives	The goals of this course are to - be able to understand the theory for recipient transplant coordinator practice - be able to acquire skills necessary for recipient transplant coordinator practice				
回数 Chapters	授業計画 (各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1	Orientation			ASAI Tomoko	
2-14	Role playing			ASAI Tomoko AKASHI Yuumi	
15-30	Case study				
評価法・基準 Grading Policies	Your overall grade in the class will be decided based on attendance and attitude. Feedback of discussion and presentation will be provided by each instructor.				
教科書 Textbook	Regimen will be provided in the class.		教材・参考書 Reference Book		
オフィスアワー Office Hour	ASAI Tomoko: 21:10-21:30, Monday at 608, building 3. AKASHI Yuumi: 21:10-21:30, Monday at 628, building 3.		連絡先 Contact		
準備学習 Preparation Of study	Students are expected to prepare for 30 minutes in advance and summarize the class for 30 minutes afterward.		履修上の注意点 Notice for Students	Stay aware of clinical challenges and act proactively.	

## Practicum in Recipient Transplant Coordination

専攻分野 Major Field	Transplant coordination	学年 Grade	1st ・ 2nd year	期 間 Semester	1st year: Full-year 2nd year: Full-year
授業形態 Style	Practice	単位 Credits	5	時間数 Hours	150
授業方法 Class Methods	In-person class	使用言語 Language	Japanese		
担当教員名 Instructor	ASAI Tomoko, AKASHI Yuumi, KENMOCHI Takashi				
科目概要 Course Aims	This course deals with practices as a recipient transplant coordinator under supervision, rotating to the transplant department and getting involved in preoperative to postoperative transplant cases.				
到達目標 Objectives	The goals of this course are to - be able to understand practices as a recipient transplant coordinator - be able to act as a recipient transplant coordinator under supervision				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1-75	The date and time of on-site practice will vary from student to student. Education for the public and medical professionals will be scheduled. Practices in Japan organ transplant network, tissue bank, or other transplant hospital will be scheduled.			ASAI Tomoko AKASHI Yuumi KENMOCHI Takashi	
評価法・基準 Grading Policies	Students will be evaluated on attendance, attitude and finding their own issues. Feedback will be provided by each instructor or supervisor.				
教科書 Textbook		教材・参考書 Reference Book			
オフィス アワー Office Hour	Each instructor will answer questions after practice. ASAI Tomoko: 21:10-21:30, Monday at 608, building 3. AKASHI Yuumi: 21:10-21:30, Monday at 628, building 3.	連絡先 Contact			
準備学習 Preparation of study	Students are expected to find out the contents necessary for the practice for 30 minutes in advance and to summarize for 30 minutes afterward.	履修上の 注意点 Notice for Students	Act proactively and share information with other students.		

## Master's Research in Recipient Transplant Coordination

専攻分野 Major Field	Transplant coordination	学年 Grade	1st・2nd year	期 間 Semester	1st year: 2nd semester 2nd year: Full-year
授業形態 Style	Research / Seminar	単位 Credits	5	時間数 Hours	150
授業方法 Class Methods	In-person class	使用言語 Language	Japanese		
担当教員名 Instructor	ASAI Tomoko				
科目概要 Course Aims	<p>This course deals with clarification of research issues related to transplant coordination and paper writing from a clinically based perspective. Students will achieve basic skills and ability as a transplant coordinator to develop concepts and theories through this process and clinical training. The program includes a midterm research presentation as a mandatory component for all students to demonstrate their progress and receive constructive feedback.</p> <p>Instructor: ASAI Tomoko</p> <ol style="list-style-type: none"> <li>1. Research on decision-making support for patient and family choosing organ transplant</li> <li>2. Research on coordination at every stage of organ transplant</li> <li>3. Research on nursing interventions for self-care, adherence, patient education, and more</li> <li>4. Research on nursing interventions for living-donor transplant recipient</li> <li>5. Research on organ transplant such as allocation system or perception of medical professionals</li> </ol>				
到達目標 Objectives	<p>The goals of this course are to</p> <ul style="list-style-type: none"> <li>- be able to clarify the research theme and create the research plan</li> <li>- be able to explore issues related to practice of recipient transplant coordinators</li> <li>- be able to prepare manuscript for master's thesis</li> </ul>				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1st year: 2nd semester (30 hours: 15 chapters)					
1-15	<ol style="list-style-type: none"> <li>1. Understanding of the background of research</li> <li>2. Survey of previous research</li> <li>3. Planning of research</li> <li>4. Preparing for institutional review board</li> </ol>			ASAI Tomoko	
2nd year: 1st semester (60 hours: 30 chapters)					
16-45	<ol style="list-style-type: none"> <li>1. Collection and analysis of the data</li> </ol>			ASAI Tomoko	
2nd year: 2nd semester (60 hours : 30 chapters)					
46-75	<ol style="list-style-type: none"> <li>1. Collection and analysis of the data</li> <li>2. Preparation of the manuscript for master's thesis</li> <li>3. Preparation of presentation materials</li> </ol>			ASAI Tomoko	
評価法・基準 Grading Policies	<p>Your overall grade is comprehensively evaluated based on attendance, attitude, and master's thesis.</p> <p>Feedback of your presentation at the group meeting will be provided by each instructor.</p>				
教科書 Textbook			教材・参考書 Reference Book		
オフィス アワー Office Hour	ASAI Tomoko: 18:00-20:00, Monday through Friday, at 608, building 3.		連絡先 Contact		
準備学習 Preparation of study	Prepare a document summarizing your progress for 30 minutes and reflect for 30 minutes afterward.		履修上の 注意点 Notice for Students	Proceed in a planned and proactive manner.	

## Seminars in Donor Coordination

専攻分野 Major Field	Transplant coordination	学年 Grade	2nd year	期 間 Semester	1st semester
授業形態 Style	Seminar / Group work	単位 Credits	2	時間数 Hours	60
授業方法 Class Methods	In-person class	使用言語 Language	Japanese		
担当教員名 Instructor	ASAI Tomoko, AKASHI Yuumi				
科目概要 Course Aims	This course deals with the roles of donor coordinators through case study and simulation learning, as well as communication skills that are essential for donor coordinators. Specifically, students will learn about decision-making support for patients and families, consultation with medical professionals, longitudinal care, and personal relations and communications. Conduct discussions on topics covered during lectures.				
到達目標 Objectives	The goals of this course are to - be able to understand the theory for donor coordinator practice - be able to acquire skills necessary for donor coordinator practice				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1	Orientation			ASAI Tomoko	
2-14	Role playing			ASAI Tomoko AKASHI Yuumi	
15-30	Case study				
評価法・基準 Grading Policies	Your overall grade in the class will be decided based on attendance and attitude. Feedback of discussion and presentation will be provided by each instructor.				
教科書 Textbook	Regimen will be provided in the class.		教材・参考書 Reference Book		
オフィス アワー Office Hour	ASAI Tomoko: 21:10-21:30, Monday at 608, building 3. AKASHI Yuumi: 21:10-21:30, Monday at 628, building 3.		連絡先 Contact		
準備学習 Preparation of study	Students are expected to prepare for 30 minutes in advance and summarize the class for 30 minutes afterward.		履修上の注意点 Notice for Students	Stay aware of clinical challenges and act proactively.	

## Practicum in Donor Coordination

専攻分野 Major Field	Transplant coordination	学年 Grade	1st ・ 2nd year	期 間 Semester	1st year: Full-year 2nd year: Full-year
授業形態 Style	Practice	単位 Credits	5	時間数 Hours	150
授業方法 Class Methods	In-person class	使用言語 Language	Japanese		
担当教員名 Instructor	ASAI Tomoko, AKASHI Yuumi, KENMOCHI Takashi				
科目概要 Course Aims	This course deals with practices as a donor coordinator under supervision in a series of potential organ and tissue donation cases. Students will also learn about the public education of transplantation and development of in-hospital organ/tissue donation system.				
到達目標 Objectives	The goals of this course are to - be able to understand practices as a donor coordinator - be able to act as a donor coordinator under supervision				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1-75	The date and time of on-site practice will vary from student to student. Education for the public and medical professionals will be scheduled. Practices in Japan organ transplant network, tissue bank, or other transplant hospital will be scheduled.			ASAI Tomoko AKASHI Yuumi KENMOCHI Takashi	
評価法・基準 Grading Policies	Students will be evaluated on attendance, attitude and finding their own issues. Feedback will be provided by each instructor or supervisor.				
教科書 Textbook		教材・参考書 Reference Book			
オフィス アワー Office Hour	Each instructor will answer questions after practice. ASAI Tomoko: 21:10-21:30, Monday at 608, building 3. AKASHI Yuumi: 21:10-21:30, Monday at 628, building 3.	連絡先 Contact			
準備学習 Preparation of study	Students are expected to find out the contents necessary for the practice for 30 minutes in advance and to summarize for 30 minutes afterward.	履修上の 注意点 Notice for Students	Act proactively and share information with other students.		

## Master's Research in Donor Coordination

専攻分野 Major Field	Transplant coordination	学年 Grade	1st・2nd year	期 間 Semester	1st year: 2nd semester 2nd year: Full-year
授業形態 Style	Research / Seminar	単位 Credits	5	時間数 Hours	150
授業方法 Class Methods	In-person class	使用言語 Language	Japanese		
担当教員名 Instructor	ASAI Tomoko				
科目概要 Course Aims	<p>This course deals with clarification of research issues related to transplant coordination and paper writing from a clinically based perspective. Students will achieve basic skills and ability as a transplant coordinator to develop concepts and theories through this process and clinical training. The program includes a midterm research presentation as a mandatory component for all students to demonstrate their progress and receive constructive feedback.</p> <p>Instructor: ASAI Tomoko</p> <ol style="list-style-type: none"> <li>1. Research on coordination of deceased organ/tissue donation</li> <li>2. Research on deceased donor family care</li> <li>3. Research on donation and allocation system</li> <li>4. Research on in-hospital organ/tissue donation system</li> <li>5. Research on organ transplant, including the perceptions of medical professionals and the public</li> </ol>				
到達目標 Objectives	<p>The goals of this course are to</p> <ul style="list-style-type: none"> <li>- be able to clarify the research theme and create the research plan</li> <li>- be able to explore issues related to practice of donor coordinators</li> <li>- be able to prepare manuscript for master's thesis</li> </ul>				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1st year: 2nd semester (30 hours:15 chapters)					
1-15	<ol style="list-style-type: none"> <li>1. Understanding of the background of research</li> <li>2. Survey of previous research</li> <li>3. Planning of research</li> <li>4. Preparing for institutional review board</li> </ol>			ASAI Tomoko	
2nd year: 1st semester (60 hours:30 chapters)					
16-45	<ol style="list-style-type: none"> <li>1. Collection and analysis of the data</li> </ol>			ASAI Tomoko	
2nd year: 2nd semester (60 hours:30 chapters)					
46-75	<ol style="list-style-type: none"> <li>1. Collection and analysis of the data</li> <li>2. Preparation of the manuscript for master's thesis</li> <li>3. Preparation of presentation materials</li> </ol>			ASAI Tomoko	
評価法・基準 Grading Policies	<p>Your overall grade is comprehensively evaluated based on attendance, attitude, and master's thesis. Feedback of your presentation at the group meeting will be provided by each instructor.</p>				
教科書 Textbook		教材・参考書 Reference Book			
オフィス アワー Office Hour	ASAI Tomoko: 18:00-20:00, Monday through Friday, at 608, building 3.		連絡先 Contact		
準備学習 Preparation of study	Prepare a document summarizing your progress for 30 minutes and reflect for 30 minutes afterward.		履修上の注意点 Notice for Students		Proceed in a planned and proactive manner.

## Advanced Topics in Rehabilitation Science Seminars

専攻分野 Major Field	Activities Sciences	学年 Grade	1st year	期間 Semester	2nd semester
授業形態 Style	Lecture	単位 Credits	2	時間数 Hours	30
授業方法 Class Methods	Remote class	使用言語 Language	Japanese		
担当教員名 Instructor	TERANISHI Toshio, SUZUKI Megumi, TANABE Shigeo, OHTSUKA Kei, TAKEDA Kotaro, WATANABE Akiyoshi, YAMADA Masayuki, TANIKAWA Hiroki, UEHARA Shintaro, NAKAJIMA Tomomi				
科目概要 Course Aims	Rehabilitation science is a discipline that forms the foundation for the restoration of the right to live as a human being. This seminar focuses on human movement, cognitive function, and activities of daily living, and provides a comprehensive study of important and extensive knowledge in rehabilitation science, such as motor control, measurement and evaluation of physical function, and therapeutic techniques. In this seminar, we will discuss and learn how to plan appropriate treatments and build evidence based on this knowledge. (Co-hosted by the fields of Activities Sciences and Rehabilitation Biomedical Engineering)				
到達目標 Objectives	By the end of this course, a successful learner will be able to 1. Explain the measurement and evaluation methods of brain function and quantitative evaluation methods including movement measurement. 2. Explain the therapeutic techniques and orthosis / treatment equipment. 2. Explain the pathophysiology of gait disturbance in hemiplegic stroke patients.				
回数 Chapters	授業計画 (各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1	Fall risk assessment tools and fall prevention			TERANISHI Toshio	
2	Reliability and validity of Fall risk assessment tool			TERANISHI Toshio	
3	Assessment and occupational therapy for individuals with memory disorder			SUZUKI Megumi	
4	Assessment and occupational therapy for individuals with attention disorder			SUZUKI Megumi	
5	Assistive Technologies for rehabilitation			TANABE Shigeo	
6	Pathophysiology of gait disturbance in hemiplegic stroke patients			OHTSUKA Kei	
7	Literature review on occupational therapy practice			NAKAJIMA Tomomi	
8	Analysis of the training provided by therapists to patients			YAMADA Masayuki	
9	Review papers related to upper limb movement analysis. Examine and discuss research methods for measuring upper limb movement analysis. Present and discuss mini-reviews.			WATANABE Akiyoshi	
10	Paralysis treatment for stroke hemiplegia patients			YAMADA Masayuki	
11	Using ultrasound imaging system for musculoskeletal rehabilitation			TANIKAWA Hiroki	
12	Recovery of upper-limb motor function after stroke			UEHARA Shintaro	
13	Surface electromyogram			TAKEDA Kotaro	
14	Quantitative evaluation of spasticity			TAKEDA Kotaro	
15	Research Issues in the Field of Rehabilitation Science			TERANISHI Toshio	

<p>評価法・基準 Grading Policies</p>	<p>Grading will be described based on students' attitude (30%), Reports, seminar materials and oral examinations (70%). In order to measure the level of comprehension of the goals, assign tasks such as reports, material creation, etc., oral examinations for each.</p>		
<p>教科書 Textbook</p>	<p>Regimen may be provided.</p>	<p>教材・参考書 Reference Book</p>	
<p>オフィス アワー Office Hour</p>	<p>TERANISHI Toshio Building 9-7F-704 Monday 8:00-8:30, 21:10-21:30 SUZUKI Megumi Building 8-7F-706 18:00-21:00 on my lecture day TANABE Shigeo Building 8-1F-112 In the day of lecture OHTSUKA Kei In the day of lecture TAKEDA Kotaro Nanakuri Memorial Hospital In the day of lecture WATANABA Akiyoshi Building 8-7F-713 18:00-21:00 on my lecture day YAMADA Masayuki Building 8-7F-720 18:00-21:00 on my lecture day TANIKAWA Hiroki Building 8-7F-725 In the day of lecture UEHARA Shintaro Building 8-7F-711 In the day of lecture NAKAJIMA Tomomi Building 8-7F-714 18:00-21:00 on my lecture day</p>	<p>連絡先 Contact</p>	
<p>準備学習 Preparation of study</p>	<p>Preparatory study of the specified theme for about 1 hour. In addition, perform an extended review for about one hour as the lecture progresses. Be interested in everything and learn with a positive attitude.</p>	<p>履修上の注意点 Notice for Students</p>	<p>To make notebooks, you can use laptop computer. No things to prepare unless specified.</p>

## Seminars in Activity Science

専攻分野 Major Field	Activities Sciences	学年 Grade	1st・2nd year	期 間 Semester	1st year: 2nd semester 2nd year: 1st semester
授業形態 Style	Practice / Seminar	単位 Credits	4	時間数 Hours	120
授業方法 Class Methods	In-person class	使用言語 Language	Japanese		
担当教員名 Instructor	TERANISHI Toshio, SUZUKI Megumi, OHTSUKA Kei, WATANABE Akiyoshi, YAMADA Masayuki, NAKAJIMA Tomomi				
科目概要 Course Aims	There are various methods and approaches to scientifically analyze human activities. It is necessary to be able to analyze human activities and executive functions from many different aspects. Therefore, this course will cover various analytical methods and approaches through lectures and discussions to enable students to acquire the knowledge and skills necessary for writing a master's thesis. The methods to analyze the transformation of daily activities of people with disabilities from the aspects of quality, quantity, and social system will also be explained.				
到達目標 Objectives	By the end of this course, a successful learner will be able to 1. measure and consider the phenomena associated with the human sensorimotor system. 2. perform fundamental experimental processes including measurement, data analysis, and discussion. 3. develop and prove a hypothesis, and perform logical thinking.				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1st year: 2nd semester (60 hours:30 chapters)					
1-10	Paper review of postural balance keeping ability Paper review on fall risk assessment Presentation and discussion of mini-reviews			TERANISHI Toshio	
11-20	Rehabilitation of Cognitive Impairment Case Reports and Discussion			SUZUKI Megumi	
21-30	Paper review of motion analysis Planning and measurement of motion analysis Data analysis			OHTSUKA Kei	
2nd year: 1st semester (60 hours:30 chapters)					
1-10	Examination of evaluation method using 3D motion analysis of upper extremities			WATANABE Akiyoshi	
11-20	Representative studies on frontal lobe function and task performance are reviewed, and the interpretation of analysis results of frontal lobe activity during occupational performance is discussed.			NAKAJIMA Tomomi	
21-30	Understanding research methods for treating paralysis. Facilitation treatment experience.			YAMADA Masayuki	
評価法・基準 Grading Policies	Your overall grade is comprehensively evaluated based on short reports (40%), attendance attitude (40%), and quiz (20%). Feedback of your presentation will be provided by each instructor.				
教科書 Textbook	Regimen may be provided.		教材・参考書 Reference Book		

<p>オフィス アワー Office Hour</p>	<p>TERANISHI Toshio Building 9-7F-704 Monday 8:00-8:30, 21:10-21:30 SUZUKI Megumi Building 8-7F-706 18:00-21:00 on my lecture day OHTSUKA Kei In the day of lecture WATANABE Akiyoshi Building 8-7F-713 18:00-21:00 on my lecture day YAMADA Masayuki Building 8-7F-720 18:00-21:00 on my lecture day NAKAJIMA Tomomi Building 8-7F-714 18:00-21:00 on my lecture day</p>	<p>連絡先 Contact</p>	
<p>準備学習 Preparation of study</p>	<p>Students will be required to pre-study a specified theme for about half an hour and perform an extended review for about one hour as the lecture progresses. Students should work actively with a strong interest in each theme.</p>	<p>履修上の注意 点 Notice for Students</p>	<p>To make notebooks, you can use laptop computer. No things to prepare unless specified. Students must take your PC every class. Be interested in anything and learn it positively.</p>

## Master's Research in Activity Science

専攻分野 Major Field	Activities Sciences	学年 Grade	1st・2nd year	期 間 Semester	1st year: 2nd semester 2nd year: Full-year
授業形態 Style	Research / Seminar	単位 Credits	10	時間数 Hours	300
授業方法 Class Methods	In-person class	使用言語 Language	Japanese		
担当教員名 Instructor	TERANISHI Toshio, SUZUKI Megumi				
科目概要 Course Aims	<p>Clinically oriented research on physical therapy and occupational therapy for activity disorders will be conducted regardless of whether it is basic or clinical research. In other words, physical and occupational therapy will be examined from the neurophysiological and neuropsychological aspects of conventional treatment methods based on kinesiology, neuropsychology, electrophysiology, prosthetics and orthotics. In addition to physical and psychological factors, people should be understood together with the environmental factors surrounding them, and it is important that a comprehensive approach be taken to their activities.</p> <p>In the field of life activities sciences, we will develop biometrics, treatment techniques, orthotics, and welfare support devices, and will discuss and decide on themes that can widely contribute to clinical medicine for future generations. While discussing with their supervisors as needed, students advance their research and present their findings at conferences and in academic papers, and write their master's thesis.</p> <p>TERANISHI Toshio</p> <ol style="list-style-type: none"> <li>1. Study on therapeutic intervention and consequences of physical therapy.</li> <li>2. Development of fall risk assessment tools and management method in hospital.</li> <li>3. Development of clinical-oriented motion analysis method.</li> <li>4. Study on treadmill gait analysis and motion analysis.</li> <li>5. Development of walking practice method.</li> <li>6. Study on orthosis treatment for paralytic disease.</li> </ol> <p>SUZUKI Megumi</p> <ol style="list-style-type: none"> <li>1. Research about subjective and objective QOL of persons with cognitive dysfunction</li> <li>2. Research about the evaluation and training of persons with cognitive dysfunction or dementia patients</li> <li>3. Research about social participation of persons with cognitive dysfunction</li> </ol>				
到達目標 Objectives	<p>By the end of this course, a successful learner will be able to</p> <ol style="list-style-type: none"> <li>1. Understand the meaning of research, habitualize research activities, and become aware as a researcher.</li> <li>2. Take ethical considerations.</li> <li>3. Acquire research execution techniques.</li> <li>4. Acquire communication skills (Explanation method, research presentation, r research paper writing).</li> </ol>				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)				
1st year:2nd semester (30 hours:15 chapters)					
1-15	<ol style="list-style-type: none"> <li>1. Select and critically analyze literature on issues of interest</li> <li>2. Clarify your research agenda and evaluate the feasibility of your research</li> </ol>				
2nd year:1st semester (120 hours:60 chapters)					
1-60	<ol style="list-style-type: none"> <li>1. Create a research plan (ethical considerations required)</li> <li>2. Data collection and analysis</li> <li>3. Learn presentation and discussion skills through the midterm research presentations</li> </ol>				

2nd year:2nd semester (150 hours:75 chapters)			
1-75	1. Consider the analysis results 2. Perform additional experiments as needed 3. Learn presentation and discussion skills through the midterm research presentations 4. Create a master's thesis 5. Report a master's thesis		
評価法・基準 Grading Policies	Grading will be described based on students' attitude (30%), Reports, seminar materials and oral examinations (70%). In order to measure the level of comprehension of the goals, assign tasks such as reports, material creation, etc., oral examinations for each.		
教科書 Text Book	Regimen may be provided.	教材・参考書 Reference Book	Articles to help your research will be provided.
オフィス アワー Office Hour	TERANISHI Toshio Building 9-7F-704 Monday 8:00-30, 21:10-30 SUZUKI Megumi Building 8-7F-706 18:00-21:00 on my lecture day	連絡先 Contact	
準備学習 Preparation of study	Specify each time. Read through the literature specified. (more than 60min)	履修上の注意点 Notice for Students	It is desirable that each research theme be related to the research theme of the instructor.

## Advanced Topics in Dysphagia Therapy

専攻分野 Major Field	Dysphagia Therapy	学年 Grade	1st year	期 間 Semester	2nd semester
授業形態 Style	Seminar	単位 Credits	2	時間数 Hours	30
授業方法 Class Methods	Remote class	使用言語 Language	English		
担当教員名 Instructor	INAMOTO Yoko, ONOGI Keiko, OTA Kikuo				
科目概要 Course Aims	The course includes basic integrated understanding about adult dysphagia rehabilitation and provides opportunities to discuss normal and abnormal anatomy and physiology related to swallowing function, etiology and symptoms of dysphagia, techniques and instrumentation for diagnosis and treatment of dysphagia, exercise for dysphagia, and dysphagia in special clinical populations.				
到達目標 Objectives	<ol style="list-style-type: none"> <li>1. Identify the anatomy and physiology involved in normal swallowing</li> <li>2. Describe the primary mechanism of swallowing</li> <li>3. Describe the occurrence, etiology and pathophysiology of dysphagia</li> <li>4. Demonstrate knowledge and skills needed to implement dysphagia evaluation</li> <li>5. Demonstrate knowledge and skills needed to implement dysphagia treatment</li> <li>6. Explain the system of dysphagia rehabilitation</li> </ol>				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1-2	Orientation, Overview of dysphagia			OTA Kikuo	
3-4	Swallowing anatomy and physiology			OTA Kikuo	
5-6	Swallowing model, Stages of swallowing			INAMOTO Yoko	
7	Screening, Clinical Swallowing Evaluation			INAMOTO Yoko	
8	Video fluoroscopic evaluation			INAMOTO Yoko	
9	Videoendoscopic evaluation			INAMOTO Yoko	
10	Classification of treatment, Element based exercise			INAMOTO Yoko	
11	Target oriented exercise (posture, food, swallowing maneuver)			INAMOTO Yoko	
12	Disorders of swallowing with neurological disease			ONOGI Keiko	
13	Disorders of swallowing with degenerative disease			ONOGI Keiko	
14	Disorders of swallowing with head and neck cancers			ONOGI Keiko	
15	Transdisciplinary management of dysphagia			ONOGI Keiko	
評価法・基準 Grading Policies	Overall grades will be determined based on the discussion and attitude toward the classes and short reports. To evaluate the achievement of the course aims, questions will be provided in the discussion and the reports.				
教科書 Textbook	Saitoh E, Pongpipatpaiboon K, Inamoto Y, Kagaya E, eds. Dysphagia evaluation and treatment, Springer.	教材・参考書 Reference Book	Belafsky PC, Kuhn MA. The clinician's guide to swallowing fluoroscopy, Springer. Logemann JA, Evaluation and treatment of swallowing disorder.		

<p>オフィス アワー Office Hour</p>	<p>INAMOTO Yoko building 8-7F-720 Before and/or after the class in person or contact via e-mail</p> <p>ONOGI, Keiko Contact via e-mail</p> <p>OTA, Kikuo Contact via e-mail</p>	<p>連絡先 Contact</p>	
<p>準備学習 Preparation of study</p>	<p>Pre-and post-study: Students are expected to spend about 30 minutes preparing for each topic and take about 30 minutes to review and write a summary of class notes. Students are also expected to read the official journals of JSDR and Dysphagia and to summarize the points on the notes.</p>	<p>履修上の注意点 Notice for Students</p>	<p>You can take notes by hand or on your computer. Bring your own laptop to every class. No specific materials required unless otherwise specified</p>

## Seminars in Dysphagia Therapy

専攻分野 Major Field	Dysphagia Therapy	学年 Grade	1st・2nd year	期 間 Semester	1st year: 2nd semester 2nd year: 1st semester
授業形態 Style	Lecture / Seminar	単位 Credits	4	時間数 Hours	120
授業方法 Class Methods	In-person class	使用言語 Language	Japanese (Partly in English)		
担当教員名 Instructor	INAMOTO Yoko, ONOGI Keiko				
科目概要 Course Aims	Various interventions and exercise are used in dysphagia rehabilitation. This course will focus on the swallowing exercise, which is based on the concept of rehabilitation medicine, after the introduction of history and development of dysphagia rehabilitation. Clarification of exercises, techniques, and difficulty adjustment will be taught in detail. Appropriate exercises are selected based on evaluation, and thus, several important evaluations will be reviewed and practiced. Discussion will be performed on the topic of current rehabilitation from the view of evidence-based medicine. Lastly the research area necessary to be studied will be discussed.				
到達目標 Objectives	<ol style="list-style-type: none"> <li>1. Understand the overall intervention for dysphagia</li> <li>2. Understand the characteristics of each evaluation and those techniques</li> <li>3. Understand the element based and task-oriented exercises</li> <li>4. Understand the current condition and meaning of clinical research in dysphagia field</li> </ol>				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)				
回数 Chapters	授業計画(各回のテーマ) Course Schedule			担当教員 Instructor	
1st year: 2nd semester (60 hours: 30 chapters)					
1-2	History and development of dysphagia rehabilitation			INAMOTO Yoko	
3-4	Team approach and its meaning in dysphagia rehabilitation			INAMOTO Yoko	
5	Clinical meaning and significance of evaluation in dysphagia rehabilitation			INAMOTO Yoko	
6-10	Imaging / objective evaluation (VFSS, FEES, Swallowing CT, Manometry)			INAMOTO Yoko	
11	Overview of swallowing exercise			INAMOTO Yoko	
12-14	Element based exercise – Oral phase			INAMOTO Yoko	
15-18	Element based exercise -Pharyngeal phase			INAMOTO Yoko	
19-22	Element based exercise -Pharyngeal phase			ONOGI Keiko	
23-30	Other intervention (Oral care, Respiratory exercise)			ONOGI Keiko	
2nd year: 1st semester (60 hours: 30 chapters)					
1-4	Task oriented evaluation – Facilitation, Food modification			INAMOTO Yoko	
5-8	Task oriented evaluation – Posture adjustment			INAMOTO Yoko	
9-12	Task oriented evaluation – Swallowing maneuvers			INAMOTO Yoko	
12-14	Risk management in evaluation			INAMOTO Yoko	

15-18	Surgical intervention	INAMOTO Yoko	
19-24	Update of dysphagia research – What is already proved	ONOGI Keiko	
25-30	Update of dysphagia research– What is necessary to be studied	ONOGI Keiko	
評価法・基準 Grading Policies	The overall grade will be determined based on the papers and discussion. To evaluate the achievement of the course aims, questions will be provided in the discussion and the reports.		
教科書 Textbook	Logemann JA, Evaluation and treatment of swallowing disorder.	教材・参考書 Reference Book	Ekberg, Olle. Dysphagia: Diagnosis and Treatment 2nd ed. Dysphagia (Journal), Springer.
オフィス アワー Office Hour	Before and/or after the class  INAMOTO Yoko Building 8-7F-720  ONOGI, Keiko Contact via e-mail	連絡先 Contact	
準備学習 Preparation of study	Students are expected to complete the online course of MBSImP.	履修上の注意点 Notice for Students	You can take notes by hand or on your computer. Bring your own laptop to every class. No specific materials required unless otherwise specified

## Master's Research in Dysphagia Therapy

専攻分野 Major Field	Dysphagia Therapy	学年 Grade	1st ・ 2nd year	期 間 Semester	1st year: 2nd semester 2nd year: Full-year
授業形態 Style	Research / Seminar	単位 Credits	10	時間数 Hours	300
授業方法 Class Methods	In-person class	使用言語 Language	Japanese (Partly in English)		
担当教員名 Instructor	INAMOTO Yoko, ONOGI Keiko				
科目概要 Course Aims	<p>In this course, to determine the theme of thesis, current problems in dysphagia rehabilitation will be discussed based on the classes of dysphagia therapeutics and graduate seminar of dysphagia therapeutics. The theme includes a wide range of fields from basic physiology (anatomy, physiology) to clinical research (exercise, outcome). Students may choose the topic according to the necessity from clinical and research views and their interests. Students will read through all the related manuscripts of their theme, develop a research plan, present their progress in a midterm research presentation, implement research, and then complete a thesis. Students will be encouraged to submit the manuscript to the related journals. They may use the published journal as a thesis.</p> <p>INAMOTO Yoko</p> <ol style="list-style-type: none"> <li>1. Kinematic analysis of swallowing maneuvers</li> <li>2. Development of exercise for strengthening pharyngeal contraction during swallowing</li> <li>3. Kinematic analysis of hyolaryngeal movement during swallowing</li> <li>4. Kinematic analysis of UES opening during swallowing</li> <li>5. Coordination of swallowing and respiration</li> </ol> <p>ONOGI Keiko</p> <ol style="list-style-type: none"> <li>1. Development of severity scale for oral phase of swallowing</li> <li>2. Investigation of swallowing outcome by dysphagia rehabilitation</li> <li>3. Invention of severity scale for VFSS and FEES</li> </ol>				
到達目標 Objectives	<ol style="list-style-type: none"> <li>1. Determine the theme of thesis and make a research plan</li> <li>2. Collect and analyze the data as well as learn the technique for data analysis</li> <li>3. Create a thesis</li> <li>4. Learn and practice the ethical procedures</li> </ol>				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)				
1st year: 2nd semester (30 hours:15 chapters)					
1-15	<ol style="list-style-type: none"> <li>1. Review the articles related to the research theme</li> <li>2. Determine the aim of the study and consider its feasibility</li> <li>3. Plan the research and make a research proposal</li> </ol>				
2nd year: 1st semester (120 hours:60 chapters)					
1-60	<ol style="list-style-type: none"> <li>1. Collect and analyze the data</li> <li>2. Perform the statistical analysis and data reduction</li> </ol>				
2nd year: 2nd semester (150 hours:75 chapters)					
1-75	<ol style="list-style-type: none"> <li>1. Create the thesis</li> <li>2. Present at the conferences</li> <li>3. Publish the paper in journals</li> </ol>				
評価法・基準 Grading Policies	Overall grades will be determined based on the research/thesis and attitude toward research. Short papers will be necessary to be submitted in the process of writing a thesis.				

教科書 Textbook	Regimen will be provided in the class.	教材・参考書 Reference Book	No special textbooks. Students need to find papers or books related to their research independently.
オフィス アワー Office Hour	Before and/or after the class  INAMOTO Yoko Building 8-7F-720  ONOGI, Keiko Contact via e-mail	連絡先 Contact	
準備学習 Preparation of study	Students are expected to search the articles related to the research theme, read, analyze and summarize. 2-4 hours/week	履修上の注意点 Notice for Students	Research topics may be basic (anatomy, physiology, etc.) or clinical (exercise, outcome evaluation, etc.), but it is desirable that research topics focus on areas of significant current medical or social need.

## Advanced Topics in Rehabilitation Functional Morphology

専攻分野 Major Field	Rehabilitation Functional Morphology	学年 Grade	1st year	期 間 Semester	2nd semester
授業形態 Style	Lecture / Seminar	単位 Credits	2	時間数 Hours	30
授業方法 Class Methods	Remote class	使用言語 Language	Japanese		
担当教員名 Instructor	YAMADA Kouji, NISHII Kazuhiro, MATSUSHITA Fumio, AIZU Naoki				
科目概要 Course Aims	<p>It has important significance in the process that it applies to necessary diagnosis, treatment, evaluation in the healthcare setting to pursue structure and the function of the human body in learning rehabilitation medicine, medical care.</p> <p>As for the bones, the muscle and the nervous form and the knowledge of the function, general understanding is obtained in searching normal structure of the human body and function by doing the lecture that is easy to understand the latest data.</p> <p>In addition, we discuss and examine motor control from the perspectives of structure and function. Furthermore, students will be instructed in methods of academic writing for thesis preparation and will practice these skills.</p> <p>YAMADA Kouji</p> <ol style="list-style-type: none"> <li>1. Bones explain muscular function from biochemical characteristic bones, muscular physiology (bones and muscular functional dynamics).</li> <li>2. We conduct the lecture that applied structure and a function including bones, joint, muscle to body mechanics.</li> </ol> <p>MATSUSHITA Fumio</p> <ol style="list-style-type: none"> <li>1. We consider the mechanisms of malformation of cell and tissue structures to induce disorders, such as muscular dystrophy.</li> <li>2. We consider mechanisms of renewal of cellular constituents or mechanisms of gene expression regulation could change some characters and lead to disorders.</li> <li>3. We summarize methods of gene expression analysis, model organisms, stem cells, and genome editing.</li> </ol> <p>NISHII Kazuhiro</p> <ol style="list-style-type: none"> <li>1. We explain nerves and muscular form and structure histologically.</li> <li>2. We explain nerves and muscular association.</li> <li>3. We lecture in experiment systems using the artificially induced model.</li> </ol> <p>AIZU Naoki</p> <ol style="list-style-type: none"> <li>1. We explain the mechanisms of multisensory integration in the brain that produce a sense of ownership and sense of agency.</li> <li>2. We explain neuropsychological methods to measure the body-specific attention in humans and its relation to motor control.</li> <li>3. Methods of academic writing and argumentation for thesis preparation will be explained and practiced.</li> </ol>				

到達目標 Objectives	<p>YAMADA Kouji</p> <ol style="list-style-type: none"> <li>1. We can explain the morphologic characteristics and function of cells about bone metabolism.</li> <li>2. We can explain a method to apply structure and the function that merge bones, joint, the circle to neurosciences.</li> <li>3. We can explain a mechanism of the protein about exercise.</li> <li>4. We can explain a mechanism of the protein about muscular development, hypertrophy, atrophy.</li> </ol> <p>MATSUSHITA Fumio</p> <ol style="list-style-type: none"> <li>1. We can explain the mechanisms of malformation of cell and tissue structures that induces disorders, such as muscular dystrophy.</li> <li>2. We can explain mechanisms of renewal of cellular constituents or mechanisms of gene expression regulation could change some characters and lead to disorders.</li> <li>3. We can explain a summary of methods of functional analysis of gene products, such as model organisms, stem cells, and genome editing.</li> </ol> <p>NISHII Kazuhiro</p> <ol style="list-style-type: none"> <li>1. We can explain a histological characteristic of the central nerve.</li> <li>2. We obtain knowledge about the distribution of spinal cord motoneuron.</li> <li>3. We obtain spinal nerve and knowledge about the muscular association.</li> <li>4. We can explain a neural circuit (motor tract).</li> <li>5. We obtain the basic knowledge on testing it using the animal.</li> </ol> <p>AIZU Naoki</p> <ol style="list-style-type: none"> <li>1. Understand the mechanisms of multisensory integration in the brain that produce a sense of ownership and sense of agency.</li> <li>2. Understand neuropsychological methods to measure the body-specific attention in humans and its relation to motor control.</li> <li>3. Students will acquire knowledge of methods of academic writing and argumentation for thesis preparation.</li> </ol>	
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)	担当教員 Instructor
1	<ol style="list-style-type: none"> <li>1. The emergence of skeletal system and signal patterning to control growth</li> <li>2. A mechanism of the resorption of bone and role about osteocytic bone metabolism and remodeling</li> <li>3. Bone metabolism control with calcium and phosphorus, vitamin D and the androgen</li> <li>4. Bone metabolisms control due to leptin, the nervous system</li> <li>5. Differentiation and the transcription factor of osteoblasts and osteoclasts and activated mechanism</li> </ol>	YAMADA Kouji
2	<ol style="list-style-type: none"> <li>1. A disorder of malformation of the structure of cell adhesion: muscular dystrophy.</li> <li>2. Maintenance of cellular constituents (1): Renewal of cellular constituents by degradation and reconstitution. Failure of degradation systems, such as ubiquitin - proteasome system, or autophagy, induces some disorders, such as cancer and Parkinson disease.</li> </ol>	MATSUSHITA Fumio
3	Maintenance of cellular constituents (2): Maintenance of DNA (mechanisms of DNA repair, failure of DNA repair with aging, cancer)	MATSUSHITA Fumio
4	Methods of functional analysis of gene products: model organisms, stem cells, genome editing.	MATSUSHITA Fumio
5	Treasure DNA: some mutations in non-coding regions change some transcription of some genes and some characters.	MATSUSHITA Fumio
6	DNA switch: The On-and-Off system of gene expression induces cell differentiation and certain disorders.	MATSUSHITA Fumio

7	Experimental basics using the laboratory animal	NISHII Kazuhiro	
8	The handling of the laboratory animal, Model animal manufacture method	NISHII Kazuhiro	
9	The basics of neurohistology, Neurologic development, denaturation, reproduction	NISHII Kazuhiro	
10	Spinal conducting pathway, Serotonin neuron	NISHII Kazuhiro	
11	Multisensory integration in the brain that produces a sense of ownership and a sense of agency	AIZU Naoki	
12	Neuropsychological methods for measuring body-specific attention and its relation to motor control in the upper limb	AIZU Naoki	
13	Relationship between body-specific attention and motor control in the lower limb	AIZU Naoki	
14	Modulation of body-specific attention	AIZU Naoki	
15	Methods of academic writing and argumentation for thesis preparation	AIZU Naoki	
評価法・基準 Grading Policies	<ul style="list-style-type: none"> <li>- An evaluation method: A problem report (Yamada: 5%, Nishii 25%, Matsushita 30%, Aizu 30%) and attendance manner (10%)</li> <li>- Evaluation criteria: After a lecture of each charge, we check your understanding of the objectives by an oral examination.</li> <li>- Feedback: We appropriately comment on a problem after your answer on the spot and feedback on the point where the objectives were not reached in a lecture.</li> </ul>		
教科書 Textbook	None	教材・参考書 Reference Book	
オフィス アワー Office Hour	<p>YAMADA Kouji Building 8-7F-707 Thursday 19:00-20:00 I accept the question by email.</p> <p>NISHII Kazuhiro Building 8-7F-723 Thursday 19:00-21:00 I accept the question by email.</p> <p>MATSUSHITA Fumio Building 9-4F-416 Thursday 19:00-21:00 I accept the question by email.</p> <p>AIZU Naoki Building 8-6F-602 Thursday 19:00-20:00 I accept the question by email.</p>	連絡先 Contact	
準備学習 Preparation of study	The learning after before lecture and the lecture: More than 30 minutes, you make a study lecture note, and settle a progressive review with the lecture progress using literature. You make preparations for lessons about basic knowledge of the study in the specialism for more than 30 minutes. Be interested in everything and learn with a positive attitude.	履修上の 注意点 Notice for Students	You may use handwriting or PC-editing your lecture note. If not mentioned, there is no need to bring anything.

## Seminars in Rehabilitation Functional Morphology

専攻分野 Major Field	Rehabilitation Functional Morphology	学年 Grade	1st ・ 2nd year	期 間 Semester	1st year: 2nd semester 2nd year: 1st semester
授業形態 Style	Practice / Experiment / Seminar	単位 Credits	4	時間数 Hours	120
授業方法 Class Methods	In-person class	使用言語 Language	Japanese		
担当教員名 Instructor	YAMADA Kouji, NISHII Kazuhiro				
科目概要 Course Aims	<p>We lecture on relations with the disease from form and a function for a case by an organon using the artificially-induced model experiment system in conducting a usability test. We explain it through literature to feed a purpose and understanding ability to analyze the process of study, the technique of methods of study, the rating system of results into detail. In addition, we lecture on neuropsychological methods for measuring the function of central nervous system and discuss related research topics.</p> <p>YAMADA Kouji</p> <ol style="list-style-type: none"> <li>1. We wear an immunohistologic method, genetic technique, a biochemical technique and understand bones, a muscular physiologic mechanism and explain the process of study, utilization of the literature, the evaluation method of results.</li> <li>2. We learn knowledge and a technique to analyze postmenopausal bone metabolism, the bones by the exercise test for the having many kinds, a muscular morphological change and a change of the protein and deepen and we develop it and determine a research theme of the self.</li> <li>3. We understand the physical change of the locomotor system with the aging, and we examine the exercise therapy appropriate to it and determine it.</li> <li>4. We learn neuropsychological methods to understand the central nervous system.</li> </ol> <p>NISHII Kazuhiro</p> <ol style="list-style-type: none"> <li>1. We explain the experimental drafting method using the animal, a basic technique.</li> <li>2. We determine the distribution of the serotonin neuron in the spinal nerve using histologic technique.</li> <li>3. We understand a change of the locomotorium after the spinal cord injury in the model animal and we analyze it about a mechanism of the neurotization and determine it.</li> </ol>				
到達目標 Objectives	<p>YAMADA Kouji</p> <p>We obtain utilization, the knowledge about the way of the experimental accomplishment from how to build experiment and research plans, how to check literature.</p> <p>Also, understand the basic physiology mechanism of the locomotor system in the body; of the functional analysis method using an immunohistologic method, genetic technique, the biochemical technique, neuropsychological methods learn it, and can accomplish an experiment in cooperation with a collaborator.</p> <p>NISHII Kazuhiro</p> <p>We learn the basic knowledge, techniques about the experiment using the animal and can accomplish an experiment in cooperation with a collaborator.</p> <p>Also, we understand spinal nerve and a basic mechanism about the association of the locomotorium and can describe it logically.</p>				

回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)	担当教員 Instructor
1st year: 2nd semester (60 hours: 30 chapters)		
1	Protocol: We design an efficient method of experiment and are intended to analyze results appropriately.	YAMADA Kouji
2	Protocol: How to build experiment and research plans, from how to check literature utilization, Choice of the experimental method that you should use, Way of the real experiment accomplishment, Interpretation and summary of results	YAMADA Kouji
3	An experiment procedure theory: How to make fixation, embedding, slice, hematoxylin and eosin (HE) stain of the tissue sample	YAMADA Kouji
4	An experiment procedure theory: Observation measurement and analytical method of the tissue sample using the microscope	YAMADA Kouji
5	An experiment procedure theory: How to make tissue sample by the special staining	YAMADA Kouji
6	An experiment procedure theory: How to make bone specimen and bone form counting	YAMADA Kouji
7	An experiment procedure theory: How to make muscle specimen and counting using software which analyzes an image (ImageJ)	YAMADA Kouji
8	An experiment procedure theory: Molecular technique, Extraction of the protein from tissue, the Western blotting method, Fluorescence cytology and multiplex staining	YAMADA Kouji
9	An experiment procedure theory: Molecular technique, The ELISA method, Cell culture Neuropsychological methods: Reaction time task	YAMADA Kouji
10	An experiment procedure theory: Basic handling method of the laboratory animal	NISHII Kazuhiro
11	An experiment procedure theory: Surgery method of the laboratory animal, materials sampling method	NISHII Kazuhiro
12-15	A basic article about locomotor systems from a instructor and latest article introduction	YAMADA Kouji NISHII Kazuhiro
16-19	The search and study session which introduces an article (Journal club) of the related article of how to write master's thesis and the article theme	YAMADA Kouji NISHII Kazuhiro
20-30	Acquisition of the experiment procedure technique about study theme	YAMADA Kouji NISHII Kazuhiro
2nd year: 1st semester (60 hours: 30 chapters)		
31-60	Acquisition of the experiment procedure technique about study theme	YAMADA Kouji NISHII Kazuhiro
評価法・基準 Grading Policies	A rating system: A practical examination (70%), Attitude toward learning (30%) Evaluation criteria: We perform a practical examination and explain whether you can perform alone the experimental method that you acquired on the spot and actually feed it back.	
教科書 Textbook	None	教材・参考書 Reference Book

<p>オフィス アワー Office Hour</p>	<p>YAMADA Kouji Building 8-7F-707 Thursday 19:00-20:00 I accept the question by email. NISHII Kazuhiro Building 8-7F-723 Thursday 19:00-21:00 I accept the question by email.</p>	<p>連絡先 Contact</p>	
<p>準備学習 Preparation of study</p>	<p>Preparations learning: Conduct a progressive review with practice, an experiment, the seminar progress by preparations for lessons about basic knowledge approximately one hour for one hour. Be interested in everything and learn with a positive attitude.</p>	<p>履修上の 注意点 Notice for Students</p>	<p>Even if the editing of the notebook is handwritten, you may use a PC. When there is no designation, there is particularly no belonging.</p>

## Master's Research in Rehabilitation Functional Morphology

専攻分野 Major Field	Rehabilitation Functional Morphology	学年 Grade	1st・2nd year	期間 Semester	1st year: 2nd semester 2nd year: Full-year
授業形態 Style	Practice / Experiment / Seminar	単位 Credits	10	時間数 Hours	300
授業方法 Class Methods	In-person class	使用言語 Language	Japanese		
担当教員名 Instructor	YAMADA Kouji, NISHII Kazuhiro				
科目概要 Course Aims	<p>Explain the functional analysis not to remain in form and structure observation about problems, determination of prognosis occurring in a treatment process undergoing rehabilitation in a clinic based on bones, ligament, tendon, the articular knowledge and theory that macroscopic, are histologic including muscle.</p> <p>It is macroscopic as a method of analysis and wears a histological observation method and, using immunohistochemistry, biochemical and molecular analytical technique, makes clear that it is in the form of tissue, cells of the locomotor system about a function. Also, we perform it in the neurologic analysis similarly. In addition, we explain neuropsychological methods to understand motor control.</p> <p>We provide guidance on how to clarify and discuss each student's research topic related to various issues in the tissues and cells of the musculoskeletal and central nervous systems, and how to produce a substantial master's thesis that tests and validates research hypotheses. A midterm research presentation will be conducted prior to the submission of the master's thesis to assess the progress of the research.</p> <p>YAMADA Kouji</p> <ol style="list-style-type: none"> <li>1. We wear an immunohistologic method, genetic technique, a biochemical technique, neuropsychological methods, and understand bones, a muscular physiologic mechanism and motor control, and lecture by the process of study, utilization of the literature, the evaluation method of results.</li> <li>2. Of the bone morphometric enforcement and parameter calculate it, and understand a way of the histologic bone analysis, and determine it.</li> <li>3. We learn knowledge and technique to analyze the bones by the exercise test for the having many kinds and a muscular morphological change and a change of the onset of protein and deepen, and research theme of the self and determines it.</li> <li>4. Using model mice, we will analyze the effects of exercise on the central nervous system by behavioral analysis and brain tissue image analysis and investigate the causes that cause them.</li> </ol> <p>NISHII Kazuhiro</p> <ol style="list-style-type: none"> <li>1. We explain the experimental drafting method using the animal, a basic technique.</li> <li>2. We determine the distribution of the serotonin neuron in the spinal nerve using histologic technique.</li> <li>3. We understand a change of the locomotorium after the spinal cord injury in the model animal and we analyze it about a mechanism of the neurotization and determine it.</li> </ol>				
到達目標 Objectives	<ol style="list-style-type: none"> <li>1. We determine the study theme of each person, and we make a study plan and can explain it to others.</li> <li>2. We understand the technique necessary for data collection and an analysis and perform it and can describe it logically.</li> <li>3. We can describe it logically to report data in a study briefing session, a society.</li> <li>4. We can explain a study theme to others to make the substantial master's thesis of contents.</li> </ol>				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)				
1st year: 2nd semester (300 hours:15 chapters)					
1-15	<ol style="list-style-type: none"> <li>1. We choose the literature about the problem to send interest to and we collect it and analyze it.</li> <li>2. We clarify a research theme of each person and evaluate the accomplishment likelihood of the</li> </ol>				

	<p>study.</p> <p>3. We make a study plan based on a research theme for each person.</p> <p>4. According to a study plan, we perform the experiment that served as a pilot study.</p>		
2nd year:1st semester (120 hours:60 chapters)			
1-60	<p>1. According to a research theme, we test it.</p> <p>2. The collection of the laboratory findings and analysis</p> <p>3. Periodical report of the laboratory finding</p>		
2nd year: 2nd semester (150 hours:75 chapters)			
1-75	<p>1. According to a research theme, we test it.</p> <p>2. Analysis of the collection of the laboratory findings and results</p> <p>3. Society report</p> <p>4. Making of the master's thesis</p> <p>5. Report of the master's thesis</p>		
評価法・基準 Grading Policies	<p>A rating system: Experiments (10%), proactive attitude toward research topics (20%), acquisition of technology and knowledge (20%), Completion of master's thesis (50%)</p> <p>Criteria: We ask an oral question at any time about the item which rating systems include and explain it after an answer on the spot and feed it back.</p>		
教科書 Textbook	None	教材・参考書 Reference Book	We recommend it appropriately
オフィス アワー Office Hour	<p>YAMADA Kouji Building 8-7F-707 Thursday 19:00-20:00 I accept the question by email.</p> <p>NISHII Kazuhiro Building 8-7F-723 Thursday 19:00-21:00 I accept the question by email.</p>	連絡先 Contact	
準備学習 Preparation of study	<p>Preparations learning: Conduct a progressive review with practice, an experiment, the seminar progress by preparations for lessons about basic knowledge approximately one hour for one hour. Be interested in everything and learn with a positive attitude.</p>	履修上の注意 点 Notice for Students	<p>Even if the editing of the notebook is handwritten, you may use a PC.</p> <p>When there is no designation, there is particularly no belonging.</p>

## Advanced Topics in Rehabilitation Educational Science I

専攻分野 Major Field	Rehabilitation Educational Science	学年 Grade	1st year	期 間 Semester	1st semester
授業形態 Style	Lecture / Seminar	単位 Credits	2	時間数 Hours	30
授業方法 Class Methods	Remote class	使用言語 Language	Japanese		
担当教員名 Instructor	KANADA Yoshikiyo, SAKURAI Hiroaki, TANABE Shigeo, KOYAMA Soichiro, FUJIMURA Kenta, TAKEDA Kazuya, II Takuma, SUZUMURA Shota, YOSHIDA Taiki, OTA Hirofumi				
科目概要 Course Aims	<p>In the course, we aim to establish the positioning of physical and occupational therapy education as an academic discipline, as we celebrate half a century since the inception of their training in our country. Continuous scrutiny and efforts are underway to solidify the status of therapy education. These courses, Advanced Topics in Rehabilitation Educational Science I and II, encompass the necessary knowledge and skills requisite for therapy education, including societal structures, pertinent regulations, educational theories and practice, learner psychology, and curriculum design. Through the omnibus approach, we endeavor to impart expertise in therapy education, enabling individuals to become proficient professionals in the field.</p> <p>KANADA Yoshikiyo, SAKURAI Hiroaki, TANABE Shigeo, KOYAMA Soichiro, FUJIMURA Kenta, TAKEDA Kazuya, II Takuma, SUZUMURA Shota, YOSHIDA Taiki, OTA Hirofumi</p> <ol style="list-style-type: none"> <li>1. Legislation and regulations concerning the education of physical and occupational therapy, status, environmental changes, ethics, roles and qualifications of teachers, scope of duties and responsibilities of educators, foundational and lifelong education, evolution and transitions in the education system.</li> <li>2. Current educational systems for physical and occupational therapy and areas for improvement, prospects.</li> <li>3. Practical aspects of primary and secondary education (early childhood, elementary, middle, and high school).</li> <li>4. Psychological characteristics of adolescence, developmental disorders.</li> <li>5. Principles, essence, objectives, history, systems, and ethics of education.</li> <li>6. Objectives and history of education.</li> <li>7. Systems and ethics of education.</li> <li>8. Significance, goals, and types of educational evaluation.</li> <li>9. Types and characteristics of educational instructional techniques, educational evaluation, preparation of lecture materials.</li> <li>10. Class evaluations (historical, learning-based, surveys, etc.).</li> <li>11. Fundamentals of the educational process, basics of physical and occupational therapy education curriculum, designated regulations.</li> <li>12. Social security systems (social welfare, public assistance, medical, caregiving, labor health).</li> <li>13. Scope of practice for therapists (including prevention, home healthcare), definitions, roles, specializations, market needs, bioethics, human rights.</li> <li>14. Learner psychology, developmental psychology, information utilization, educational counseling.</li> <li>15. Curriculum design, regulations, practicum coordinators, methods of education, learning theories, teaching methods.</li> </ol>				

到達目標 Objectives	<p>By the end of this course, a successful learner will be able to KANADA Yoshikiyo, SAKURAI Hiroaki, TANABE Shigeo, KOYAMA Soichiro, FUJIMURA Kenta, TAKEDA Kazuya, II Takuma, SUZUMURA Shota, YOSHIDA Taiki, OTA Hirofumi</p> <ol style="list-style-type: none"> <li>1. Explain the changes in the social structure regarding therapist education in our country.</li> <li>2. Explain the areas for improvement and prospects concerning therapist education.</li> <li>3. Explain the practical aspects of primary and secondary education.</li> <li>4. Explain the psychological characteristics of adolescence and developmental disorders.</li> <li>5. Explain the principles and essence of education, along with explanations of its history and systems.</li> <li>6. Explain the significance, goals, and types of educational evaluation.</li> <li>7. Explain the types and characteristics of educational instructional techniques, educational evaluation, and the creation of lecture materials.</li> <li>8. Explain the class evaluations (historical, learning-based, surveys, etc.).</li> <li>9. Explain the fundamentals of the educational process, basics of physical and occupational therapy education curriculum, and designated regulations.</li> <li>10. Explain social security systems (social welfare, public assistance, medical, caregiving, labor health).</li> <li>11. Explain the scope of practice for therapists (including prevention, home healthcare), definitions, roles, specializations, market needs, bioethics, and human rights.</li> <li>12. Explain learner psychology, developmental psychology, information utilization, and educational counseling.</li> <li>13. Explain curriculum design, regulations, and practicum coordinators.</li> <li>14. Explain methods of education, learning theories, and teaching methods.</li> </ol>	
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)	担当教員 Instructor
1	Legislation and regulations concerning the education of physical and occupational therapy, status, environmental changes, ethics, roles and qualifications of teachers, scope of duties and responsibilities of educators, foundational and lifelong education, evolution and transitions in the education system.	SAKURAI Hiroaki TANABE Shigeo YOSHIDA Taiki
2	Current educational systems for physical and occupational therapy and areas for improvement prospects.	TANABE Shigeo YOSHIDA Taiki
3	Practical aspects of primary and secondary education (early childhood, elementary, middle, and high school).	TANABE Shigeo YOSHIDA Taiki
4	Psychological characteristics of adolescence, developmental disorders.	TANABE Shigeo YOSHIDA Taiki
5	Principles and essence of education.	KANADA Yoshikiyo II Takuma SUZUMURA Shota
6	Objectives and history of education.	KANADA Yoshikiyo II Takuma SUZUMURA Shota
7	Systems and ethics of education.	KANADA Yoshikiyo II Takuma SUZUMURA Shota
8	Significance, goals, and types of educational evaluation.	KANADA Yoshikiyo II Takuma SUZUMURA Shota
9	Types and characteristics of educational instructional techniques, educational evaluation, preparation of lecture materials.	KOYAMA Soichiro OTA Hirofumi
10	Class evaluations (historical, learning-based, surveys, etc.).	KOYAMA Soichiro OTA Hirofumi

11	Fundamentals of the educational process, basics of physical and occupational therapy education curriculum, designated regulations.	KOYAMA Soichiro OTA Hirofumi	
12	Social security systems (social welfare, public assistance, medical, caregiving, labor health).	KOYAMA Soichiro OTA Hirofumi	
13	Scope of practice for therapists (including prevention, home healthcare), definitions, roles, specializations, market needs, bioethics, human rights.	KOYAMA Soichiro OTA Hirofumi	
14	Learner psychology, developmental psychology, information utilization, educational counseling.	KOYAMA Soichiro OTA Hirofumi	
15	Curriculum design, regulations, practicum coordinators. Methods of education, learning theories, teaching methods.	KOYAMA Soichiro OTA Hirofumi	
評価法・基準 Grading Policies	Grading will be considered based on reports (50%), students' attitudes (40%), and oral examinations (10%). To measure the level of comprehension of the goals, students will be likely assigned the reports. The points which do not reach the goal are fed back in the lecture.		
教科書 Textbook	No textbook required.	教材・参考書 Reference Book	No textbook required.
オフィス アワー Office Hour	<p>KANADA Yoshikiyo, SAKURAI Hiroaki, TANABE Shigeo, KOYAMA Soichiro, FUJIMURA Kenta, TAKEDA Kazuya, II Takuma, SUZUMURA Shota, YOSHIDA Taiki, OTA Hirofumi Building 8-1F-106, Monday 12:00-13:00 E-mail me if you have any questions.</p>	連絡先 Contact	
準備学習 Preparation of study	Students should study for at least 30 minutes before and after each class using reference materials. Also, as a post-study, students should summarize the main points of the lecture in lecture notes and review them for at least 30 minutes.	履修上の 注意点 Notice for Students	Students should make lecture notes to review your studies easily. Also, students should work with a wide range of intellectual curiosity in addition to your research theme.

## Advanced Topics in Rehabilitation Educational Science II

専攻分野 Major Field	Rehabilitation Educational Science	学年 Grade	1st year	期 間 Semester	1st semester
授業形態 Style	Lecture / Seminar	単位 Credits	2	時間数 Hours	30
授業方法 Class Methods	Remote class	使用言語 Language	Japanese		
担当教員名 Instructor	KANADA Yoshikiyo, SAKURAI Hiroaki, TANABE Shigeo, KOYAMA Soichiro, FUJIMURA Kenta, TAKEDA Kazuya, II Takuma, SUZUMURA Shota, YOSHIDA Taiki, OTA Hirofumi				
科目概要 Course Aims	<p>In the span of half a century since the inception of physical and occupational therapist training in our nation, there has been a continuous effort to establish the academic standing of therapist education. These courses, Advanced Topics in Rehabilitation Educational Science I and II, are designed to equip participants with the necessary knowledge and skills pertinent to therapist education through an omnibus approach. Participants will delve into topics such as the nature and methodology of clinical internships, instructional methodologies, student assessment, coaching and teaching strategies, managerial operations, interdisciplinary collaboration, and postgraduate training.</p> <p>KANADA Yoshikiyo, SAKURAI Hiroaki, TANABE Shigeo, KOYAMA Soichiro, FUJIMURA Kenta, TAKEDA Kazuya, II Takuma, SUZUMURA Shota, YOSHIDA Taiki, OTA Hirofumi</p> <ol style="list-style-type: none"> <li>1. Approach and philosophy of clinical internship, educational objectives, general goals, and behavioral objectives</li> <li>2. Significance of clinical internships required professional competencies, and attainment objectives. Clinical internship supervision, participatory clinical practices, fundamental attitudes, and clinical thought processes.</li> <li>3. Objective Structured Clinical Examination (OSCE) in clinical internships.</li> <li>4. Utilization of coaching, teaching, and daily notes in clinical internships.</li> <li>5. Evaluation of clinical internships, roles of supervisors, and educators.</li> <li>6. Requirements for clinical internship facilities, primary clinical internship facilities.</li> <li>7. Significance, objectives, methods, and research design in physical and occupational therapy research.</li> <li>8. Utilization of practicum evaluation methods, rubrics, and checklists.</li> <li>9. Relevant regulations, designated rules, compliance, labor management, and harassment.</li> <li>10. Establishment of evaluation objectives and criteria, course content in physical and occupational therapy education.</li> <li>11. Interdisciplinary collaboration, team-based healthcare, interpersonal relationship theories, interpersonal skills.</li> <li>12. External evaluation by third parties.</li> <li>13. Evaluation of clinical internships, roles of supervisors, and educators.</li> </ol>				
到達目標 Objectives	<p>By the end of this course, a successful learner will be able to</p> <p>KANADA Yoshikiyo, SAKURAI Hiroaki, TANABE Shigeo, KOYAMA Soichiro, FUJIMURA Kenta, TAKEDA Kazuya, II Takuma, SUZUMURA Shota, YOSHIDA Taiki, OTA Hirofumi</p> <ol style="list-style-type: none"> <li>1. Explain the considerations and approaches to clinical internships, educational objectives, general goals, and behavioral objectives.</li> <li>2. Explain the significance of clinical internships required professional competencies, and attainment objectives.</li> <li>3. Explain the objective Structured Clinical Examination (OSCE) in clinical internships.</li> <li>4. Explain the utilization of coaching, teaching, and daily notes in clinical internships.</li> <li>5. Explain the evaluation of clinical internships, roles of supervisors, and educators.</li> <li>6. Explain the requirements for clinical internship facilities, primary clinical internship facilities.</li> <li>7. Explain the significance, objectives, methods, and research design in physical and occupational therapy research.</li> </ol>				

	<p>8. Explain the utilization of practicum evaluation methods, rubrics, and checklists.</p> <p>9. Explain the relevant regulations, designated rules, compliance, labor management, and harassment.</p> <p>10. Explain the establishment of evaluation objectives and criteria, course content in physical and occupational therapy education.</p> <p>11. Explain the interdisciplinary collaboration, team-based healthcare, interpersonal relationship theories, interpersonal skills.</p> <p>12. Explain the external evaluation by third parties.</p> <p>13. Explain the evaluation of clinical internships, roles of supervisors, and educators.</p>	
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)	担当教員 Instructor
1	Approach and philosophy of clinical internship, educational objectives, general goals, and behavioral objectives	SAKURAI Hiroaki FUJIMURA Kenta TAKEDA Kazuya
2	Significance of clinical internships required professional competencies, and attainment objectives. Clinical internship supervision, participatory clinical practices, fundamental attitudes, and clinical thought processes.	SAKURAI Hiroaki FUJIMURA Kenta TAKEDA Kazuya
3	Objective Structured Clinical Examination (OSCE) in clinical internships 1	SAKURAI Hiroaki FUJIMURA Kenta TAKEDA Kazuya
4	Objective Structured Clinical Examination (OSCE) in clinical internships 2	SAKURAI Hiroaki FUJIMURA Kenta TAKEDA Kazuya
5	Utilization of coaching, teaching, and daily notes in clinical internships	SAKURAI Hiroaki FUJIMURA Kenta TAKEDA Kazuya
6	Evaluation of clinical internships, roles of supervisors, and educators	SAKURAI Hiroaki FUJIMURA Kenta TAKEDA Kazuya
7	Requirements for clinical internship facilities, primary clinical internship facilities	SAKURAI Hiroaki FUJIMURA Kenta TAKEDA Kazuya
8	Significance, objectives, methods, and research design in physical and occupational therapy research.	TANABE Shigeo YOSHIDA Taiki
9	Utilization of practicum evaluation methods, rubrics, and checklists 1	TANABE Shigeo YOSHIDA Taiki
10	Utilization of practicum evaluation methods, rubrics, and checklists 2	TANABE Shigeo YOSHIDA Taiki
11	Relevant regulations, designated rules, compliance, labor management, and harassment	KANADA Yoshikiyo II Takuma SUZUMURA Shota
12	Establishment of evaluation objectives and criteria, course content in physical and occupational therapy education	KANADA Yoshikiyo II Takuma SUZUMURA Shota
13	Interdisciplinary collaboration, team-based healthcare, interpersonal relationship theories, interpersonal skills	KANADA Yoshikiyo II Takuma SUZUMURA Shota
14	External evaluation by third parties	KOYAMA Soichiro OTA Hirofumi

15	Evaluation of clinical internships, roles of supervisors, and educators	KOYAMA Soichiro OTA Hirofumi	
評価法・基準 Grading Policies	Grading will be considered based on reports (50%), students' attitudes (40%), and oral examinations (10%). To measure the level of comprehension of the goals, students will be likely assigned the reports. The points which do not reach the goal are fed back in the lecture.		
教科書 Textbook	No textbook required.	教材・参考書 Reference Book	No textbook required.
オフィス アワー Office Hour	KANADA Yoshikiyo, SAKURAI Hiroaki, TANABE Shigeo, KOYAMA Soichiro, FUJIMURA Kenta, TAKEDA Kazuya, II Takuma, SUZUMURA Shota, YOSHIDA Taiki, OTA Hirofumi Building 8-1F-106, Monday 12:00-13:00 E-mail me if you have any questions.	連絡先 Contact	
準備学習 Preparation of study	Students should study for at least 30 minutes before and after each class using reference materials. Also, as a post-study, students should summarize the main points of the lecture in lecture notes and review them for at least 30 minutes.	履修上の 注意点 Notice for Students	Students should make lecture notes to review your studies easily. Also, students should work with a wide range of intellectual curiosity in addition to your research theme.

## Seminars in Rehabilitation Educational Science

専攻分野 Major Field	Rehabilitation Educational Science	学年 Grade	1st year・2nd year	期 間 Semester	1st year: 2nd semester
授業形態 Style	Practice / Seminar	単位 Credits	4	時間数 Hours	120
授業方法 Class Methods	Remote class	使用言語 Language	Japanese		
担当教員名 Instructor	KANADA Yoshikiyo, SAKURAI Hiroaki, TANABE Shigeo, KOYAMA Soichiro, FUJIMURA Kenta, TAKEDA Kazuya, II Takuma, SUZUMURA Shota, YOSHIDA Taiki, OTA Hirofumi				
科目概要 Course Aims	<p>To deepen the knowledge acquired in the lecture of Rehabilitation Educational Science, there is a focus on further exploring domestic and international therapist education. With a foundation built upon previous learning, discussions will encompass topics such as the societal structure, the role of education, relevant regulations, and the scope of practice for physical and occupational therapists. Particularly emphasized are discussions on instructional theories regarding clinical internship supervision, evaluation methods, and facility requirements, enabling participants to form their own opinions and enhance their knowledge through active engagement in debates. Additionally, lectures and exercises will cover foundational aspects of research planning, data acquisition, basic data handling, interpretation, and the creation of charts and graphs, all conducted through an omnibus approach.</p> <p>KANADA Yoshikiyo, SAKURAI Hiroaki, TANABE Shigeo, KOYAMA Soichiro, FUJIMURA Kenta, TAKEDA Kazuya, II Takuma, SUZUMURA Shota, YOSHIDA Taiki, OTA Hirofumi</p> <ol style="list-style-type: none"> <li>1. Investigate and discuss the societal structure and the role of education, as well as the standardization of therapeutic techniques.</li> <li>2. Explore and discuss the roles of various professions.</li> <li>3. Investigate and discuss the practical aspects of education up to high school.</li> <li>4. Investigate and discuss the psychological characteristics of contemporary youth, including developmental disorders.</li> <li>5. Investigate and discuss the essence of education, including ethical considerations.</li> <li>6. Investigate and discuss instructional methods for clinical internships, encompassing a variety of conditions and actions students can undertake.</li> <li>7. Investigate and discuss the types of research and research designs.</li> <li>8. Investigate and discuss statistical methods tailored to specific designs.</li> <li>9. Conduct additional research and discussion on each research design.</li> <li>10. Investigate and discuss relevant laws, social security systems, including medical and caregiving reimbursements.</li> <li>11. Investigate and discuss the scope of practice for physical and occupational therapists, including preventive and home healthcare.</li> <li>12. Investigate and discuss learners' psychology, including developmental psychology, and information utilization.</li> <li>13. Investigate and discuss the requirements for clinical internship facilities, including primary clinical internship facilities.</li> <li>14. Investigate and discuss the qualifications required for clinical internship supervisors.</li> <li>15. Investigate and discuss methods of evaluating clinical internships, including pre- and post-internship assessments.</li> </ol>				

到達目標 Objectives	<p>By the end of this course, a successful learner will be able to KANADA Yoshikiyo, SAKURAI Hiroaki, TANABE Shigeo, KOYAMA Soichiro, FUJIMURA Kenta, TAKEDA Kazuya, II Takuma, SUZUMURA Shota, YOSHIDA Taiki, OTA Hirofumi</p> <ol style="list-style-type: none"> <li>1. Explain the societal structure and the role of education, as well as the standardization of therapeutic techniques.</li> <li>2. Explain the roles of various professions.</li> <li>3. Explain the practical aspects of education up to high school.</li> <li>4. Explain the psychological characteristics of contemporary youth, including developmental disorders.</li> <li>5. Explain the essence of education, including ethical considerations.</li> <li>6. Explain the instructional methods for clinical internships, encompassing a variety of conditions and actions students can undertake.</li> <li>7. Explain the types of research and research designs.</li> <li>8. Explain the statistical methods tailored to specific designs.</li> <li>9. Explain the additional research and discussion on each research design</li> <li>10. Explain the relevant laws, social security systems, including medical and caregiving reimbursements.</li> <li>11. Explain the scope of practice for physical and occupational therapists, including preventive and home healthcare.</li> <li>12. Explain learners' psychology, including developmental psychology, and information utilization.</li> <li>13. Explain the requirements for clinical internship facilities, including primary clinical internship facilities.</li> <li>14. Explain the qualifications required for clinical internship supervisors.</li> <li>15. Explain the methods of evaluating clinical internships, including pre- and post-internship assessments.</li> </ol>	
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)	担当教員 Instructor
1st year: 2nd semester (60 hours:30 chapters)		
1-4	Investigate and discuss the role of society's structure and education, as well as the standardization of therapeutic techniques.	KOYAMA Soichiro OTA Hirofumi
5-8	Investigate and discuss the roles of various professions.	KOYAMA Soichiro OTA Hirofumi
9-12	Investigate and discuss the practical aspects of school education up to high school.	SAKURAI Hiroaki FUJIMURA Kenta TAKEDA Kazuya
13-16	Investigate and discuss the psychological characteristics of contemporary youth, including developmental disorders.	SAKURAI Hiroaki FUJIMURA Kenta TAKEDA Kazuya
17-20	Investigate and discuss learners' psychology, including developmental psychology, and information utilization.	SAKURAI Hiroaki FUJIMURA Kenta TAKEDA Kazuya
21-24	Investigate and discuss the essence of education, including ethical considerations.	SAKURAI Hiroaki FUJIMURA Kenta TAKEDA Kazuya
25-28	Investigate and discuss instructional methods for clinical internships, encompassing a variety of conditions and actions students can undertake.	SAKURAI Hiroaki FUJIMURA Kenta TAKEDA Kazuya
29-30	Investigate and discuss the types of research and research designs.1	TANABE Shigeo YOSHIDA Taiki
2nd year: 1st semester (60 hours:30 chapters)		
1-2	Investigate and discuss the types of research and research designs.	TANABE Shigeo YOSHIDA Taiki

3-6	Investigate and discuss statistical methods tailored to specific designs.	TANABE Shigeo YOSHIDA Taiki	
7-10	Conduct additional research and discussion on each research design.	TANABE Shigeo YOSHIDA Taiki	
11-14	Investigate and discuss relevant laws, social security systems, including medical and caregiving reimbursements.	KANADA Yoshikiyo II Takuma SUZUMURA Shota	
15-18	Investigate and discuss the scope of practice for physical and occupational therapists, including preventive and home healthcare.	KANADA Yoshikiyo II Takuma SUZUMURA Shota	
19-23	Investigate and discuss learners' psychology, including developmental psychology, and information utilization.	KANADA Yoshikiyo II Takuma SUZUMURA Shota	
24-26	Investigate and discuss the requirements for clinical internship facilities, including primary clinical internship facilities.	KOYAMA Soichiro OTA Hirofumi	
27-28	Investigate and discuss the qualifications required for clinical internship supervisors.	KOYAMA Soichiro OTA Hirofumi	
29-30	Investigate and discuss methods of evaluating clinical internships, including pre and post-internship assessments.	KOYAMA Soichiro OTA Hirofumi	
評価法・基準 Grading Policies	Grading will be considered based on students' attitudes (80%), and oral examinations and reports (20%). To measure the level of comprehension of the goals, students will be likely assigned the reports and research protocols. The points which do not reach the goal are fed back in the lecture.		
教科書 Textbook	No textbook required.	教材・参考書 Reference Book	No textbook required.
オフィス アワー Office Hour	KANADA Yoshikiyo, SAKURAI Hiroaki, TANABE Shigeo, KOYAMA Soichiro, FUJIMURA Kenta, TAKEDA Kazuya, II Takuma, SUZUMURA Shota, YOSHIDA Taiki, OTA Hirofumi Building 8-1F-106, Monday 12:00-13:00 E-mail me if you have any questions.	連絡先 Contact	
準備学習 Preparation of study	Students should study for at least 30 minutes before and after each class using reference materials. Also, as a post-study, students should summarize the main points of the lecture in lecture notes and review them for at least 30 minutes.	履修上の 注意点 Notice for Students	Students should make lecture notes to review your studies easily. Also, students should work with a wide range of intellectual curiosity in addition to your research theme.

## Master's Research in Rehabilitation Educational Science

専攻分野 Major Field	Rehabilitation Educational Science	学年 Grade	1st・2nd year	期間 Semester	1st year: 2nd semester 2nd year: Full-year
授業形態 Style	Research / Seminar	単位 Credits	10	時間数 Hours	300
授業方法 Class Methods	In-person class	使用言語 Language	Japanese		
担当教員名 Instructor	KANADA Yoshikiyo, SAKURAI Hiroaki, KOYAMA Soichiro				
科目概要 Course Aims	<p>The students research the knowledge, skills, and attitudes necessary for educating therapists from the perspective of EBM (Evidence-Based Medicine) and pursue science.</p> <p><b>KANADA Yoshikiyo</b></p> <ol style="list-style-type: none"> <li>1. Studies on the prediction of the outcome of therapist education.</li> <li>2. Studies on the standardization of therapists' treatment techniques.</li> <li>3. Studies on the guidance of clinical training for therapists.</li> </ol> <p><b>SAKURAI Hiroaki</b></p> <ol style="list-style-type: none"> <li>1. Development of clinical skills and OSCE (Objective Structured Clinical Examination) for physical and occupational therapists.</li> <li>2. Studies on the development of methods to evaluate clinical skills in physical and occupational therapist education for students and novice therapists.</li> <li>3. Studies on the standardization of clinical techniques used by clinical practice leaders (physical and occupational therapists) to educate students and novice therapists (Development of clinical practice leadership training courses).</li> <li>4. Studies on the usefulness of OSCE (objective structured clinical examination), PBL (problem-based learning), and TBL (team-based learning) in physical and occupational therapist education for students and novice therapists.</li> </ol> <p><b>KOYAMA Soichiro</b></p> <ol style="list-style-type: none"> <li>1. Research on education for physical therapists and occupational therapists</li> <li>2. Research on electrophysical agents (electrical, ultrasound, shock waves, vibration, etc.)</li> <li>3. Research on the standing balance and gait reconstruction in patients with spinal cord injury</li> <li>4. Research on the clinical utilization of robots and ICT</li> <li>5. Research on the utilization of clinical data in patients with cancer and neurological diseases</li> <li>6. Research on daily physical activity, exercise habits, and treatment adherence</li> </ol>				
到達目標 Objectives	<ol style="list-style-type: none"> <li>1. Carry out decision of the research theme, reference collection, planning of the research schedule.</li> <li>2. Perform experiments, collect data, and analyze according to the research plan.</li> <li>3. Make a midterm research presentation.</li> <li>4. Write a master's thesis.</li> </ol>				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)				
1st year: 2nd semester (30 hours:15 chapters)					
1-15	<p>Focus on interesting research topics. Carry out the midterm research presentations to review the progress of the research. Carry out the collection and analysis of the literature concerning the research theme. Develop a research plan.</p>				
2nd year: 1st semester (120 hours:60 chapters)					
16-75	<p>Hold discussions on results of the experiment regularly. Revise the study plan as necessary. Conduct additional experiments as necessary.</p>				

2nd year: 2nd semester (150 hours:75 chapters)			
1-75	Presentations at academic conferences. Final analysis and discussion of experimental results. Master's thesis writing and proofreading. Master's thesis presentation.		
評価法・基準 Grading Policies	Grading will be described based on students' attitude and efforts toward research (50%), presentations of master's theses (50%).		
教科書 Textbook	No textbook required.	教材・参考書 Reference Book	Relevant literature for each graduate student.
オフィス アワー Office Hour	KANADA Yoshikiyo, SAKURAI Hiroaki, KOYAMA Soichiro Building 8-1F-106, Monday 12:00-13:00	連絡先 Contact	
準備学習 Preparation of study	Students should study for at least 30 minutes before and after each class using reference materials. Also, as a post-study, students should summarize the main points of the lecture in lecture notes and review them for at least 30 minutes.	履修上の 注意点 Notice for Students	No effort, no result.

## Advanced Topics in Rehabilitation Science Seminars

専攻分野 Major Field	Activities Sciences	学年 Grade	1st year	期 間 Semester	2nd semester
授業形態 Style	Lecture	単位 Credits	2	時間数 Hours	30
授業方法 Class Methods	Remote class	使用言語 Language	Japanese		
担当教員名 Instructor	TERANISHI Toshio, SUZUKI Megumi, TANABE Shigeo, OHTSUKA Kei, TAKEDA Kotaro, WATANABE Akiyoshi, YAMADA Masayuki, TANIKAWA Hiroki, UEHARA Shintaro, NAKAJIMA Tomomi				
科目概要 Course Aims	Rehabilitation science is a discipline that forms the foundation for the restoration of the right to live as a human being. This seminar focuses on human movement, cognitive function, and activities of daily living, and provides a comprehensive study of important and extensive knowledge in rehabilitation science, such as motor control, measurement and evaluation of physical function, and therapeutic techniques. In this seminar, we will discuss and learn how to plan appropriate treatments and build evidence based on this knowledge. (Co-hosted by the fields of Activities Sciences and Rehabilitation Biomedical Engineering)				
到達目標 Objectives	By the end of this course, a successful learner will be able to 1. Explain the measurement and evaluation methods of brain function and quantitative evaluation methods including movement measurement. 2. Explain the therapeutic techniques and orthosis / treatment equipment. 2. Explain the pathophysiology of gait disturbance in hemiplegic stroke patients.				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1	Fall risk assessment tools and fall prevention			TERANISHI Toshio	
2	Reliability and validity of Fall risk assessment tool			TERANISHI Toshio	
3	Assessment and occupational therapy for individuals with memory disorder			SUZUKI Megumi	
4	Assessment and occupational therapy for individuals with attention disorder			SUZUKI Megumi	
5	Assistive Technologies for rehabilitation			TANABE Shigeo	
6	Pathophysiology of gait disturbance in hemiplegic stroke patients			OHTSUKA Kei	
7	Literature review on occupational therapy practice			NAKAJIMA Tomomi	
8	Analysis of the training provided by therapists to patients			YAMADA Masayuki	
9	Review papers related to upper limb movement analysis. Examine and discuss research methods for measuring upper limb movement analysis. Present and discuss mini-reviews.			WATANABE Akiyoshi	
10	Paralysis treatment for stroke hemiplegia patients			YAMADA Masayuki	
11	Using ultrasound imaging system for musculoskeletal rehabilitation			TANIKAWA Hiroki	
12	Recovery of upper-limb motor function after stroke			UEHARA Shintaro	
13	Surface electromyogram			TAKEDA Kotaro	
14	Quantitative evaluation of spasticity			TAKEDA Kotaro	
15	Research Issues in the Field of Rehabilitation Science			TERANISHI Toshio	

<p>評価法・基準 Grading Policies</p>	<p>Grading will be described based on students' attitude (30%), Reports, seminar materials and oral examinations (70%). In order to measure the level of comprehension of the goals, assign tasks such as reports, material creation, etc., oral examinations for each.</p>		
<p>教科書 Textbook</p>	<p>Regimen may be provided.</p>	<p>教材・参考書 Reference Book</p>	
<p>オフィス アワー Office Hour</p>	<p>TERANISHI Toshio Building 9-7F-704 Monday 8:00-8:30, 21:10-21:30 SUZUKI Megumi Building 8-7F-706 18:00-21:00 on my lecture day TANABE Shigeo Building 8-1F-112 In the day of lecture OHTSUKA Kei In the day of lecture TAKEDA Kotaro Nanakuri Memorial Hospital In the day of lecture WATANABA Akiyoshi Building 8-7F-713 18:00-21:00 on my lecture day YAMADA Masayuki Building 8-7F-720 18:00-21:00 on my lecture day TANIKAWA Hiroki Building 8-7F-725 In the day of lecture UEHARA Shintaro Building 8-7F-711 In the day of lecture NAKAJIMA Tomomi Building 8-7F-714 18:00-21:00 on my lecture day</p>	<p>連絡先 Contact</p>	
<p>準備学習 Preparation of study</p>	<p>Preparatory study of the specified theme for about 1 hour. In addition, perform an extended review for about one hour as the lecture progresses. Be interested in everything and learn with a positive attitude.</p>	<p>履修上の注意点 Notice for Students</p>	<p>To make notebooks, you can use laptop computer. No things to prepare unless specified.</p>

## Seminars in Rehabilitation Biomedical Engineering

専攻分野 Major Field	Rehabilitation Biomedical Engineering	学年 Grade	1st・2nd year	期 間 Semester	1st year: 2nd semester 2nd year: 1st semester
授業形態 Style	Practice / Seminar	単位 Credits	4	時間数 Hours	120
授業方法 Class Methods	In-person class	使用言語 Language	Japanese		
担当教員名 Instructor	TANABE Shigeo, TAKEDA Kotaro, UEHARA Shintaro, TANIKAWA Hiroshi				
科目概要 Course Aims	<p>Students will read original papers and review papers related to biomedical engineering and/or their own research and discuss the contents among the students and with supervisors. Students are expected to develop an attitude of investigating original sources through the broad survey of the latest original papers, past papers that have influenced current trends, and classic papers on which textbooks are based. Students will learn the skills of interpreting results by improving their understanding of construction of the manuscript, measurement, analysis, and statistics, and will also learn techniques for presenting research results through the preparation of discussion materials. (small group discussion)</p> <p>TANABE Shigeo, TAKEDA Kotaro, UEHARA Shintaro, TANIKAWA Hiroki</p> <ol style="list-style-type: none"> <li>1. Reading and discussion of the latest English literatures</li> <li>2. Reading and discussion of classic English literatures</li> <li>3. Reading and discussion of English literatures that have influenced current trends</li> </ol>				
到達目標 Objectives	<p>By the end of this course, a successful learner will be able to</p> <ol style="list-style-type: none"> <li>1. Survey and manage previous studies related to one's own research.</li> <li>2. Explain the history of the development of his/her research field.</li> <li>3. Explain data collection, analytical, and statistical methods.</li> <li>4. Explain the overall structure of research manuscript and the relationship between chapters, sections, and paragraphs.</li> <li>5. Understand the hypothesis formulation and the series of validation procedures in a research: measurement, analysis, and discussion, and to be able to state what is missing in previous studies.</li> <li>6. Understand the analysis and statistical methods according to the characteristics of the data, and to be able to express the contents in appropriate sentences, tables, and figures.</li> </ol>				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)			担当教員 Instructor	
1st year: 2nd semester (60 hours: 30 chapters)					
1-30	Presentation and discussion of English research papers related to the student's research topic.			TANABE Shigeo TAKEDA Kotaro UEHARA Shintaro TANIKAWA Hiroki (Three of the faculty members will take charge)	
2nd year: 1st semester (60 hours: 30 chapters)					
1-30	Presentation and discussion of English research papers related to the student's research topic.			TANABE Shigeo TAKEDA Kotaro UEHARA Shintaro TANIKAWA Hiroki (Three of the faculty members will take charge)	

評価法・基準 Grading Policies	Grading will be given based on students' attitude (30%), reports, seminar materials and oral examinations (70%). To measure the level of comprehension of the goals, tasks such as reports, material creation, etc., or oral examinations will be provided.		
教科書 Textbook	Distribute materials as necessary.	教材・参考書 Reference Book	
オフィス アワー Office Hour	TANABE Shigeo Building 8-1F-112 In the day of lecture TAKEDA Kotaro Nanakuri Memorial Hospital In the day of lecture TANIKAWA Hiroki Building 8-7F-725 In the day of lecture UEHARA Shintaro Building 8-7F-711 In the day of lecture	連絡先 Contact	
準備学習 Preparation of study	At least one hour of prior preparation is required for understanding the literature and the materials. After the exercises, students are expected to review for over 30 minutes.	履修上の 注意点 Notice for Students	Novice graduate students should take sufficient time to survey, read, and understand literatures.

## Master's Research in Rehabilitation Biomedical Engineering

専攻分野 Major Field	Rehabilitation Biomedical Engineering	学年 Grade	1st・2nd year	期 間 Semester	1st year: 2nd semester 2nd year: Full-year
授業形態 Style	Research / Seminar	単位 Credits	10	時間数 Hours	300
授業方法 Class Methods	In-person class	使用言語 Language	Japanese		
担当教員名 Instructor	TANABE Shigeo, TAKEDA Kotaro, UEHARA Shintaro				
科目概要 Course Aims	<p>The research theme will be fundamental and/or clinical research related to neurophysiology, kinesiology, measurement engineering, and development of therapeutic and assistive devices. Specifically, students will conduct fundamental research on healthy subjects and/or clinical research on patients regarding limb and posture control, therapeutic motor learning, clinical evaluation methods, and rehabilitation robots. Students will be encouraged to give a presentation of their study at conferences and publish a scientific paper in journals.</p> <p>TANABE Shigeo</p> <ol style="list-style-type: none"> <li>1. Studies on the development of activity assistive devices.</li> <li>2. Studies on the practice and evaluation methods in physical therapy and occupational therapy.</li> <li>3. Studies on methods for measurement and analysis of motor and cognitive functions.</li> </ol> <p>TAKEDA Kotaro</p> <ol style="list-style-type: none"> <li>1. Research on the objective evaluation of spasticity by electromyography and torque measurement</li> <li>2. Research on the brain functions</li> <li>3. Research on the measurement, analysis, and evaluation of the human body</li> <li>4. Research on the development of device for measurement and intervention</li> <li>5. Research on the hand mental rotation for clinical application</li> </ol> <p>UEHARA Shintaro</p> <ol style="list-style-type: none"> <li>1. Neuro/electrophysiological mechanisms underlying human motor control and learning.</li> <li>2. Training strategies for modulating human motor control and learning.</li> <li>3. Mechanisms of motor dysfunction and neuro/electrophysiological pathways of functional recovery.</li> <li>4. Development of novel assessment method and evidence-based interventions for motor dysfunction.</li> </ol>				
到達目標 Objectives	<p>By the end of this course, a successful learner will be able to</p> <ol style="list-style-type: none"> <li>1. Understand the meaning of research, habitualize research activities, and become aware as a researcher.</li> <li>2. Take ethical considerations.</li> <li>3. Acquire research execution techniques.</li> <li>4. Acquire communication skills (Explanation method, research presentation, research paper writing).</li> </ol>				
回数 Chapters	授業計画(各回のテーマ) Course Schedule (topic for each time)				
1st year:2nd semester (30 hours:15 chapters)					
1-15	<ol style="list-style-type: none"> <li>1. Select and critically analyze literature on issues of interest</li> <li>2. Clarify your research agenda and evaluate the feasibility of your research</li> <li>3. Learn presentation and discussion skills through the midterm research presentations</li> </ol>				
2nd year:1st semester (120 hours:60 chapters)					

1-60	1. Create a research plan (ethical considerations required) 2. Data collection and analysis 3. Learn presentation and discussion skills through the midterm research presentations		
2nd year: 2nd semester (150 hours:75 chapters)			
1-75	1. Consider the analysis results 2. Perform additional experiments as needed 3. Create a master's thesis 4. Report a master's thesis		
評価法・基準 Grading Policies	Grading will be described based on students' attitude (30%), Reports, seminar materials and oral examinations (70%). In order to measure the level of comprehension of the goals, assign tasks such as reports, material creation, etc., oral examinations for each.		
教科書 Textbook	Distribute materials as necessary.	教材・参考書 Reference Book	Articles to help your research will be provided.
オフィス アワー Office Hour	TANABE Shigeo Building 8-1F-112 In the day of lecture TAKEDA Kotaro Nanakuri Memorial Hospital In the day of lecture UEHARA Shintaro Building 8-7F-711 In the day of lecture	連絡先 Contact	
準備学習 Preparation of study	Specify each time.	履修上の注意点 Notice for Students	It is desirable that each research theme be related to the research theme of the instructor.