

Syllabus

Graduate School of Kagawa Nutrition University

Year 2023

Health Sciences Degree Programs

Subjects Name, Credit Number, and The Prof. in charge

Subjects Name		Number	Prof. in charge	Page
	Compulsory Subject	Elective Subject		
I Health Science	1	I		
Advanced Lectures on Health Promotion		2	Prof. Yuko Suketomo	1
(Sat) Advanced Lectures on Health for the Mature and Elderly		2	Prof. Takashi Sekiya	2
Advanced Lectures on Environmental Health		2	Prof. Ken Kawamura	3
Advanced Lectures on Community Health		2	Prof. Shoji Shinkai/Prof. Yoshinori Fujiwara	4
Advanced Lectures on Occupational Health		2	Prof. Hiroshi Fukuda	5
Advanced Lectures on Global Health		2	Prof. Tamotsu Nakasa	6
Advanced Lectures on Health Sociology		2	Prof. Kazuhiro Nakayama	7
Advanced Lectures on Health Statistic		2	Prof. Hiromitsu Ogata	8
Advanced Lectures on Kinanthropometry		2	A/Prof. Masaharu Kagawa	9
(Sat) Advanced Lectures on Sports Methodology		2	Prof. Yoshinori Kaneko	10
II Clinical Pathophysiology and Biochemistry				
(Sat) Advanced Lectures on Clinical Biochemistry		2	Prof. Naoko Ikoshi	11
Advanced Lectures on Molecular Biology		2	Prof. Akiko Fukushima	12
Advanced Lectures on Microbiology and Infection Control		2		
Advanced Lectures on Immunology		2	Prof. Kenichi Ishibashi	13
Advanced Lectures on Exercise and Pathophysiology		2	Prof. Toshikazu Yamashita	14
		2		
Advanced Lectures on Pathological Cytology		2	Prof. Toshihide Shiotsu	15
Advanced Lectures on Clinical Hematology Applied School Health Nursing		2	Prof. Kenji Ikebuchi	16
Advanced Lectures on School Health Nursing		2	Prof. Nobuko Endo	17
Advanced Lectures on Mental Health at School		2	Prof. Tsukasa Sasaki	18
Advanced Lectures on Gender Education		2	Prof. Toshimi Marui	19
		2		10
Advanced Lectures on Human Growth and Health				20
		2	Prof. Shigeho Tanaka	20
(Sat) Advanced Lectures on Pedagogy in Nursing		2	Prof. Kumiko Ohnuma	21
evening Advanced Lectures on Human Growth and Health		2	Prof. Hiromitsu Ogata	22
VII Common Subject				
Research Methods in Health Sciences I (Information Processing)		1	Prof. Hiromitsu Ogata	23
Research Methods in Health Sciences II (Experiments)		1	Prof. Akiko Fukushima	24
Research Methods in Health Sciences III (Surveying)		1	A/Prof. Masaharu Kagawa	25
Advanced Common Lectures on Research Methods in Health Sciences I		1	Prof. Hiromitsu Ogata	26
Advanced Common Lectures on Research Methods in Health Sciences II		1	Prof. Hiromitsu Ogata	26
Advanced Common Lectures on Research Methods in Health Sciences III		1	Prof. Hiromitsu Ogata	26
Advanced Common Lectures on Research Methods in Health Sciences IV		1	Prof. Hiromitsu Ogata	26
Comprehensive Seminars on Health Sciences	4		All full-time professors of health program	27
Comprehensive Seminars on Health Sciences	2		All full-time professors of health program	28
Seminars	2	Thesis development	Each student's supervisor	
Experiment and Practicum	12	Thesis development	Each student's supervisor	
Compulsory Credits	20	Total necessar	y number of credit for	
Selective Credits		graduation	, manufor of oround for	30

Subject	Advanced Lectures on Health Promotion	Prof. Yuko Suketo	omo Compulso	ry X Selective 2 credit			
Course go	pals						
Health promotion is a process that allows people to control and improve their health conditions and their determining factors. This activity encompasses social strategies to provide opportunities to give consideration to health in all life situations through educating individuals and, eventually, improving the social environment. Through this course, students will become able to recall and scientifically explain the actual health promotion activities in their research area.							
Course Su	ummary						
	ples from health promotion initiatives in and discussions will be held based on the a			n framework will be			
Course Pl	an						
1) Introduction to Health Promotion (Keywords: Health Promotion) 8) Health Education and Empowerment (Keywords: empowerment, health volunteer) 2) WHO Health Promotion Strategy (Keywords: Ottawa Charter, Bangkok Charter) 9) Social Capital (Keyword: Social Capital) 2) WHO Health Promotion Strategies (Keywords: Ottawa Charter, Bangkok Charter) 10) Healthy City (Keyword: Community Development) 2) WHO Health Promotion Strategies (Keywords: Ottawa Charter, Bangkok Charter) (3) Health Supportive Environment (Keywords: Environment, Health) 11) Healthy Public Policy (Keywords: policy, plan, project, measure) 4) Health Literacy (Keywords: Health Literacy) 12) Social Determinants of Health (Keywords: social determinants, disparity) 5) Creating Healthy Schools (Keywords: health Promoting Schools) 13) Disease Control and Health Education (Keywords: Research (Keywords: Health Communication) 6) Creating healthy workplaces (keywords: health Communication) Design of Health Promotion Research (Keywords: Research							
Work to b	be done outside of class (prepara	ation, etc.)					
Ministry of E	rmation on health promotion policies from Education, Culture, Sports, Science and T so be sure to read through them regular!	echnology, and o	ther relevant min				
Grading c	riteria		Textbooks	References			
 In-class performance (50%) Reports (50%) 		・健康社会学研 究会編. 事例分 析でわかるヘル スプロモーション の5つの活動. 5 イフ出 版、2016.	 ・島内憲夫, 鈴木美奈 イ. ヘルスプロモーション ーWHO:バンコク憲章. 垣内出版、 2012. ・島内憲夫、鈴 木美奈子. ヘルスプロ モーションーWHO:オタ ワ憲章. 垣内出版、 2013. 				
			Materials	Remarks			
			Distributed as needed.	In order to enhance the discussion, each student will read an abstract of a paper in each class.			
		1					

Subject	Advanced Lectures on Health for the Mature and Elderly ${\sf Pr}$	of. Takashi Sekiya		Selective	2 credit		
Course g	oals and Gourse Summary						
Health, essentially, is considered to cover all matters necessary to live a healthy life, not only treating and preventing diseases. Therefore, health-related services are provided in various fields. This course aims to help students learn more practical health sciences through studies of those health-related services. Students will learn specific and practical health sciences by reference to health activities carried out by medical institutions, health insurance associations, local governments, private companies, educational institutions, etc. By understanding the processes of surveys, problem understanding, plan making, presentation, adjustments, budgeting, resurveys, advertisement, implementation, accounting, reporting, post-surveys, etc., students will obtain abilities to think for themselves. The specific health checkups and specific health services, as well as mental health and stress checkups, which have recently become increasingly important, will be also discussed. In addition, folk health activities that are used by medical institutions, health insurance associations and private corporations, including supplements, Chinese medicine, aromatherapy, massage, exercise therapy, and music therapy, will be studied. Lectures also cover the application of artificial intelligence in the medical and health fields, as well as new forms of health sciences, such as living labs. The final goal is to enable students to make their own health plans.							
Course Pl	an						
 3) Specialized health examin 4) Specialized health), health 5) Specialized health events 6) Specialized educational in activities) health care for health care 	Introductory of health science d (Adult health: efforts of medical institutions, hation, medical care, health guidance) d (Adult health: efforts of companies (occupational n committee, occupational health) d (Adult health: corporate (welfare) initiatives, a accommodation, sports gyms) d (Adult health: health insurance association, histitution, social insurance system, union for the elderly, home health care, community d (health care for the elderly, home health care,	 8) Specialized (Otheralternative medicine alternative medicines) 9) Overview: Basic last (laws, regulations, n 10) Practicum: Heal clinics, etc. 11) Practicum: Heal clinics, etc. 12) Practicum: Heal clinics, etc. 13) Practicum: Heal clinics, etc. 14) Conclusion and 	e, etc.) knowledge to estab otices, etc.) th field trip (1) Fact th field trip (2) Fact th field trip (3): Fac th field trip (4) Fact	lish health tories, hos tories, hos ctories, hos tory, hospi	n services spitals, spitals, spitals,		

Work to be done outside of class (preparation, etc.)

The field experience will be a valuable experience. Students should spend about 200 minutes researching the materials assigned in class beforehand. We are planning to include factory tours, health checkup sites, and visits to clinics and hospitals. Due to circumstances in those organizations, the desired practical training may not be possible and may be changed to other training.

Grading criteria	Textbooks	References
(oral or written) will be given to check the proficiency of the students. (In the event that students cannot attend the exams, they may submit reports, depending on the reason.) The standard	There are no specific	Instructions or handouts will be provided in class. If you have other personal interests, please refer to books related to the Ministry of Health, Labor and Welfare, occupational health, nursing care insurance, health insurance, etc., which are of interest to you.
for grading is a basic knowledge that	Materials	Remarks
enables you to develop your own health plan.	Writing materials and notebooks are required. Internet access at home is recommended.	The progress of the class may change depending on the level of proficiency.

Subject Advanced Lectures on Environmental Health P	Prof. Ken Kawan	nura Con	npulsory	X Selective	2 credit
Course goals				<u> </u>	I
Course theme; Relationship between the environment a The goal is to help students become able to explain the nvestigate and raise problems about the relationships b related to the Master's Diploma Policy which is to acqu	e basic method: between humar	s of risk ana ns and the e	nvironm	ent. The c	ourse is
Course Summary					
Substances in the environment affect human health an ive a healthy life, it is necessary to appropriately evalu necessary measures for society. Risk analysis is one of practices of risk analysis with specific examples of envi dioxins.	late the substa f the methods t	nces in the to do so. Stu	environn Idents w	nent and ta vill learn th	ake e basics ar
Course Plan					
 Overview of risk analysis Methods of risk assessment Methods of risk management Methods of risk communication Risk assessment of food in Japan Risk management of foods in Japan Risk communication of foods in Japan 	9) Risk mana 10) Risk com 11) Risk asse 12) Risk man 13) Risk com 14) Summary and human be The topics to	 8) Risk assessment of mercury in Japan 9) Risk management of mercury in Japan 10) Risk communication of mercury in Japan 11) Risk assessment of dioxins in Japan 12) Risk management of dioxins in Japan 13) Risk communication of dioxins in Japan 14) Summary of the relationship between the environment and human beings The topics to be covered and time allocation may be changed according to students' needs. 			
Work to be done outside of class (preparat	tion, etc.)				
Read the handouts and the indicated related literature problems, and be prepared to participate in the discuss required.					
Grading criteria		Textbo	oks	Refe	rences
 Participation in discussions (50%) Reports (50%) 		Handouts w distributed class as ne	in l	N/A	
Students will be evaluated based on their understanding		Materi	als	Ren	narks
analysis and the development of logic in considering the between humans and the environment.		Materi	GIIO		

Subject	Advanced Lectures on Community Health Prof. S	Shoji Shinkai/Prof. Yoshinori Fi	jiwara	Compulsory	X Selective	2 cre	edit		
Course g	oals								
Course Goa the basics o	mes; Community Health Programs based on t ls; Students will understand the mechanism c f community epidemiological research and cc knowledge can be used for their master's th	of community l ommunity heal	nealth	programs in	-				
Course S	ummary								
the New Gu considered of epidemiol guidelines to results of co	First, a proper understanding of healthy life expectancy will be obtained. Next, the background and summary of the New Guidelines for Health and Longevity (Tokyo Metropolitan Institute of Gerontology, ed.), which should be considered guidelines for healthy longevity, will be studied. In addition, students will acquire general understand of epidemiological studies (observational and interventional methods) that served as the basis for the new guidelines to learn the basics of epidemiological research. Finally, students will learn the example cases and esults of community health programs aimed at long-term health and longevity. Students will learn community health programs based on scientific evidence through the topics above.								
Course Pl									
expectancy a period, Japan stages, World 2) To underst health in Japa 3) To underst new guideline based 4) Key points What is lifest 5) Key points Difference be	 (a) Key points of the new guidelines for health and longevity (a) (b) Key points of the new guidelines for health and longevity (a) (c) Key points of the new guidelines for health and longevity (b) (c) Key points of the new guidelines for health and longevity (a) (c) Key points of the new guidelines for health (WHO, 2015), etc.) (c) Key points of frailtyprevention (Prof. Yoshinori Fujiw 7) (d) Importance of local environment and human relationships 8) Introduction of case studies of community health activities (a) Kusatsu Town, Gunma Prefecture (c) Key points of the new guidelines for health and longevity (b) (c) Key points of the new guidelines for health and longevity (a) (c) Key points of the new guidelines for health and longevity (a) (c) Key points of the new guidelines for health and longevity (a) (c) Key points of the new guidelines for health and longevity (a) (c) Key points of the new guidelines for health and longevity (a) (c) Key points of the new guidelines for health and longevity (a) (c) Key points of the new guidelines for health and longevity (b) (c) Key points of the new guidelines for health and longevity (b) (c) Key points of the new guidelines for health and longevity (b) (c) Key points of the new guidelines for health and longevity (b) (c) Key points of the new guidelines for health and longevity (b) (c) Key points of the new guidelines for health and longevity (b) (c) Key points of the new guidelines for health and longevity (b) (c) Key points of the new guidelines for health and longevity (b) (c) Key points of the new guidelines for health and longevity (b) (c) Key points of the new guidelines for health and longevity (c) (c) Key points of the new guidelines for health and longevity (c) (c) Key points of the new guidelines for health and longevity (c) (c) Key								
Work to l	pe done outside of class (preparation	on, etc.)							
of data (cros Self–study (of self–stud	dy of textbooks and reference books, 2. prior ss-sectional and longitudinal) with personal ir preparation, review, etc.) for double the class y (pre-study, review, etc.) during class time. I n by studying the lecture materials and relate	nformation ren s time. Studen For pre-study	noved (ts are stude	(data to be expected to nts should p	distributed do double prepare for	in advan the amo	ice)		
Grading o	criteria		Tex	tbooks	Refe	rences	;		
			東京都	³ 健康長寿	国民衛生の	の動向			

Grading criteria	Textbooks	References
	医療センター編 「健康長寿新ガイ ドライン エビデン スブック」(社会保 除出版社 2017	国民衛生の動向 2019/2020(厚生労働 統計協会、2019 年) Summary:World Report on Ageing and Health(WHO、2015)
	Materials	Remarks
	Thextbook will be distributed in the first class with free. Handouts and materials will	If you are going to be absent, please inform the academic office in advance. If you are absent, you may be asked to submit assignments and reports on the materials and reference papers distributed on that day.

Subject Advance	ed Lectures on Occupational Health Pro	f. Hiroshi Fukud	a Compulsory	X Selective 2 credit	
Course goals ar	nd Summary				
specific to the work and anti-smoking me health promotion in important in the futu health activities from help students under nutritionists, by intro	nealth have become diversified and co ing generation, such as "metabolic sy easures As in the cases for communi work environment, where people spen ure. In this course, students will learn in the perspectives of the purposes ar stand the interest and significance of oducing initiatives taken by corporate rime of life at international conference	ndromes," lifest ity health and s id most of their the measures a nd roles of indus industrial healt employee cafe	yle−related dise chool health, he lives, will becon and processes fo strial health prog h programs, as v terias, the latest	eases, mental health, alth management and ne increasingly or conducting industrial grams. It also aims to well as the roles of t information on health	
Course Plan					
 General theory of industrial health (purpose and outline of industrial health) Health management (Obligation and actual work of health management) Health education and health promotion in occupational health Health literacy and health management Work environment management Work environment management Work place management and workplace inspection Workplace management and workplace inspection Anti-smoking measures (anti-smoking education in companies) Wirtten examination 					
Work to be don	e outside of class (preparatio	on, etc.)			
	andouts and materials distributed to or reference book "Health Literacy" in a				
Grading criteria			Textbooks	References	
	ased on class participation, group work ents will receive feedback on their pro	<, and de esentations ne wi	extbooks will be signated as eded. Handouts Il be distributed needed.	ヘルスリテラシー〔健 康教育の新しいキー ワード〕福田洋・江ロ泰 正編著、大修館書店 産業保健マニュアル 第8版、産業医科大学 教授 森 晃爾総編 集、南山堂	
Materials		Remarks			
Use health and safety videos and other necessary visuals as needed.	We believe that there is great potent professional fields. We hope that mar their future job options and learn abc occupational health and preventive n "Sanpo-kai (Occupational Health Stu members from actual companies gath multidisciplinary manner. Graduate st world are greatly welcomed.	ny graduate stur out and take on nedicine. In the udy Group),″ wh her and discuss	dents will take t the new and ch class, we also p here many occup things with eac	his course to increase allenging fields of Ilan to introduce the pational health staff h other in a	
	l	5			

Subject Advanced Lec	tures on Global He	alth Prot	f. Tamotsu Nakasa	Compulsory	X Selective	2 credi	lit		
Course goals and Sum	nmary				<u> </u>				
Students will be expected to be able to: (1) perceive, understand, and explain the concept of Sustainable Development Goals adopted by the United Nations as the world's common goals as well as global health and environmental issues in general; (2) respond to the multinationalizing environment of school health as a nurse teacher; (3) acquire a global perspective of health and nutrition activities in the local community through the course exercises To reach the goals mentioned above, the course will provide the basic concepts and methodologies necessary to conduct international public health activities related to health, medical care, and life support through lectures and practicum to those who acquired the research and necessary abilities required of professionals with high expertise and a broad prospective on nutritional science and health science									
Course Plan									
Course Plan1) Overview: Trends in global health and global challenges: primary healthcare, Millennium Development Goals, and sustainable development; overview on the changing global challenges including infections.6) Topics: Health and nutrition issues during emergemncies, disasters and among refugees2) Topics: Maternal and child health and reproductive health, which have always been a priority issue in global health 3) Topics: Health systems and their reinforcement necessary to solve various problems6) Topics: Aging and lifestyle-related diseases that will become the mainstream in global health 10) Food system: Mechanism that nurtures human health and equitably supports sustainability of the environment 11) Exercise: Exercise to understand the food system 12) Sociological survey and information collection 13) Facilitation and project management 14) Summary of the course									
Work to be done outs	ide of class (pre	paratic	n, etc.)			-			
Read through the reference	books in advance and		udy after the clas						
Grading criteria	Textbooks			References					
 Participation for discussion (40%) Comments on Exercise Assignment (30%) Reports, to be submitted two weeks after the classes (30%) 	Handouts will be distributed as needed.	書店:2022) ・SDGを学ぶ 国際開発・国際協力入門(法律文化社:2018)		SDGを学ぶ 国際開発・国際協力入門(法律文化社:2018) 食卓から地球を変える Can Fixing Dinner fix the Planet(日ス		書店:2022) ・SDGを学ぶ 国際開発・国際協力入門(法律文化社:2018 ・食卓から地球を変える Can Fixing Dinner fix the Planet(18)	
	Materials			Remarks					
	N/A			N/A					

Subject	Advanced Lectures on Health Sociology P	rof. Kazuhiro Nakay	ama	Compulsory	X Selective	2	credit
Course go	oals and Summary						
connection l dependence people' s he health litera Health litera make full us	blogy is a branch of sociology aimed at main between people and relationships among pe and social connection, as well as ties amor alth. The connection with other people has cy, which is the ability to gather, understan icy is also the abilities of people to collect i e of their potentials to stay healthy and ulti and improve such abilities.	ople. In addition ng them, has be significant impa d, evaluate, and nformation and	n to diet come k acts on l use in to mak	t and exerc nown to ha the formati formation a e proper de	ise, people' ve larger in ion and impl bout health ecisions in c	s mu flueno roven issue rder	ce on nent of es. to
Course Pl	an						
3) 4) Health li settings 5) 6) Health li 7) 8) Critical 9) 10) Measur	 2) What is health literacy? 4) Health literacy-conscious communication in health care strings 6) Health literacy in health education and health promotion 8) Critical health literacy and social determinants of health 10) Measurement and factors of health literacy and its lationship to health 					nple, to I	
Work to b	pe done outside of class (preparat	ion, etc.)					
Students are	e required to read the materials and referer	nce books prese	ented in	class.			
Grading o	riteria		Tex	tbooks	Refei	renc	es
Evaluation will be made based on the attitude toward class participation and a report. (Comments will be given as feedback on the report.)		らのへ, シー 低 る力.言	弘:これか ルスリテラ 建康を決め 講談社. terials	 ・福ルス 東フー山の 新レー山の 第一山の 第一山の 第一 1 の 第一 1 の 第 一 の 第 一 の の の の の の の の の の の の の の	ラシー ら し い 修 雷 諸 解	健 キー 書店 護学の	

Subject	Advanced Lectures on Health Statistic	Prof. Hiromitsu O	gata Compulsory	Selective 2 credit				
Course go	oals							
The topic of the course is the application of statistics in health sciences. The objectives of the course are as follows. (1) Students will become able to explain the basic concepts of statistics, which are the basis of methodologies in public health studies and health sciences. (2) Students will become able to apply the major statistical methods that are necessary in health education and health management.								
Course S	ummary							
health studio according to management	In the first half of the course, students will learn about the importance of data as a scientific basis in public health studies and health sciences, basic concepts to handle quantitative data, specific methodologies according to data patterns, interpretation of results of analyses, and application to health education and health management. In the second half, students will work on exercises based on some specific examples with the goal to become able to apply the knowledge and techniques learned in the first half.							
Course Pl	lan							
 2) Descriptive 3) Concepts of 4) Correlation 5) Multiple reg 6) General lin 	 Basics of health statistics Descriptive statistics and inferential statistics Concepts of interval estimation and hypothesis testing Correlation and regression analysis Multiple regression analysis and logistic regression analysis General linear model and generalized linear model One-way analysis of variance Multiple regression of variables Concepts of interval estimation and hypothesis testing Non-parametric test Non-parametric test Treatment of outliers and missing values Classification of analysis methods Confounding factors and estimation of causal relations Points to note in multivariate analysis 							
Work to b	pe done outside of class (prepara	ation, etc.)						
At least 60 i	minutes of self-study for the assignment	provided in class	are required each	ı week.				
Grading o	criteria		Textbooks	References				
 In-class performance (30%) Reports (70%) Report assignments will be presented in class. 		Handouts will be distributed in class.	緒方裕光編著. 疫学・健 康統計学. 建帛社; 2021. 柳井晴夫・緒方裕光編 著. SPSS による統計 データ解析 - 医学・看護 学・生物学・心理学 の例題による統計学入門 現代数学社;2020.					
			Materials	Remarks				
			N/A	N/A				

Curled a st		C 14 1 17		Com 1		~	
Subject		rot. Masaharu Kag	awa	Compulsory	X Selective	2	credit
Course ge	oals and Summary						
This course will cover various topics related to the basic knowledge, techniques, and applications of anthropometry and body composition assessments that are fundamental assessment methods on human. The goal of this course is to provide students with knowledge of anthropometry and body composition assessment techniques and their applications, as well as to gain flexible and broad perspectives and the critical thinking to be able to use these techniques as a health professional.							
In order for humans to maintain good health and best performance, it is important to express their physiological functions normally as well as to the maximum extent possible. In order to correctly assess an individual's nutritional status and growth/developmental status that affect physiological functions and performance, appropriate knowledge and techniques for anthropometry and body composition must be acquired. In this course, the correct knowledge, techniques, and utilization of anthropometry and body composition assessments will be introduced through a combination of classroom lectures and practical experience.							
Course Pl	an						
1) History of body measurement/Kinanthropometry and history 8) Kinanthropometry in auxanology/Growth and 1) History of body measurement/Kinanthropometry and history 8) Kinanthropometry in auxanology/Growth and 2) Measurement standards/Measurement standards, measuring development, DOHaD, WHO 9) Factors affecting body measurement values/Proficiency, 9) Kinanthropometry in obesity research/Obesity, body 9) Body measurement in a real setting/Practice planning, practical skills, data processing, statistical analysis 5) Introduction of body composition assessments/Body 10) Kinanthropometry in psychology/Body image, ideal body 6) Body composition – indirect methods/Density method, 12) Kinanthropometry and ethics/Ethics, cultural 7) Body composition – doubly indirect methods/Body 13) Anthropometry and ethics/Ethics, cultural 10) Body composition – doubly indirect methods/Body 14) Body measurement and body composition measurement equation, practical skills 9 Class (preparation, etc.)							
prior to lect	ers may be used as lecture materials and ther ures and understand the content of the mate unfamiliar technical terms that they see in the	rials. In additi	on, stu	dents are e	xpected to p	orepa	re for
	nended that students take time for self-study						anning.
Grading of	riteria		Tex	tbooks	Refer	ence	es
 Summary r Final summ 	eport in the 14th class (25%) eport on the papers used as materials in eacl hary report (50%) Il be given feedback on the reports.	h class (25%)	will be as need to class Ma Lecture given u Powerf	terials es will be ^{Ising} Point.	N The conter changed de the number students. T may be be	it may pend of he le	y be ling on cture

may be used as references.

form of online lecture using Microsoft

Teams

Subject Advanced Lectures on Sports Methodology Pro	f. Yoshinori Kar	neko Compulsory	Selective 2 credit				
Course goals and Summary							
Students will gain the ability to understand the importance of maintaining physical fitness, especially the physical fitness elements of "flexibility," "endurance," and "muscular strength" in a super-aging society. In this course, students will learn about the development, dissemination, and evaluation of exercise methods and equipment that can be practiced in daily life for the purpose of maintaining or improving physical fitness, with the university's founding spirit as a foundation. Students will also learn about the possibility of using parks as health promotion facilities in Japan, based on examples from Southeast Asia, where health promotion activities in parks have been popular.							
Course Plan							
 1) Importance of physical fitness in a super-aging society (super-aging society, frailty, physical fitness) 2) Physical benefits of moderate exercise (moderate exercise, physical benefits) 3) Physical fitness and exercise necessary for health promotion (physical fitness factors) 4) Physical activity guidelines for health promotion by age and target group (Physical Activity Guidelines) 5) Exercise guidance in specific health guidance (1) (lifestyle disease, specific health guidance) 6) Exercise guidance in specific health guidance (2) (exercise prescription) 7) Exercise for health promotion and its continuity (behavior change) 8) Development of exercise methods and equipment that can be practiced in daily life (2) (equipment development) 10) Promotion and evaluation of exercise methods and equipment that can be practiced in daily life (promotion, evaluation) 11) Current status of health promotion in parks in Southeast Asia and its potential in Japan (exercise facilities) 12) Significance of using city parks as health promotion facilities (city parks) 13) 14) Conclusion 							
Work to be done outside of class (preparation	on, etc.)						
Outside of class, students are required to do self-study (preparation, review, etc.) equivalent to twice the amount of class time and read the following books in advance. 1. Elaine N. Marieb: Essentials of Human Anatomy and Physiology 2. Allan Bolton、Nigel Champion、Garry Egger: Fitness Leader's Handbook 3. 前川峯雄:保健体育スポーツ指導選書 現代体育学研究法							
Grading criteria		Textbooks	References				
• In-class performance (70%) • Reports (30%)		Handouts will be distributed as needed. Materials	Reference literature and materials will be provided in class. Remarks				

Subject	Advanced Lectures on Clinical Biochemistry	Prof. Naoko I	koshi	Compulsory	X Selective	2 cr	redit
Course go							
Clinical laboratory technicians have a high level of expertise and are committed to their work. They expand their playing fields by participating in multi-disciplinary cooperation. They also become involved in task shifting, expanding their job scope. In addition, clinical laboratory technicians are considered to be best qualified for the positions to promote medical safety management calmly and systematically. Based on these, the course addresses ideal positions of clinical laboratory technicians with the experience and knowledge of a nutritionist in diverse ways. To that end, students will become able to approach and analyze the relationships between clinical testing and etiology and relationships between clinical conditions and clinical testing from multifaceted perspectives. Students will also have opportunities to contact with patients and their families to explain about the tests and give instructions while working on their surveys and research, developing capabilities of problem solution.							
Course Si	ummary						
	Il learn how to be a nutritionist or clinical l ents and their families.	aboratory tec	hnician b	oy communic	ating with m	ainly	
Course Pl	an						
multidisciplina attitude of lis 3) 4) Medical	 1) 2) The position of the clinical laboratory technician in multidisciplinary cooperation – the spirit of hospitality and the attitude of listening 3) 4) Medical safety management 5) 6) Etiology and pathogenesis of diabetes mellitus 7) 8) Diagnostic criteria, goals, and tests for diabetes mellitus 9) 10) Complications and treatment of diabetes mellitus 11) Complications and treatment of diabetes mellitus 12) Education and guidance on diabetes mellitus, guidance on self-monitoring of blood glucose 13) 14) Conclusion and presentation 						
Work to b	pe done outside of class (prepara	ation, etc.)					
	basic aspects and read the literature and nd read the handouts in advance. Students re.						
Grading o	riteria		Те	xtbooks	Refer	ences	s
•Presentations and discussions (50%)			Instructions be given as necessary. ions (50%)			ctions will be as necessary.	
•Reports (50%).		M	aterials	Rem	arks		
			Instru be giv neces		Set a day v will visit an clinic or ho around Tok training.	outsid spital i	le in or

Subject	Advanced Lectures on Molecular	Biology Pro	of. Akiko Fukus	hima Compulsory	Selective 2 credit		
Course go	oals and Summary						
The human genome has been analyzed, and analyses of all life phenomena at the genetic level have been advanced. In order to understand biological phenomena at the genetic level and advance research on them, it is necessary to understand molecular biological techniques and apply them to research. In this course, molecular biological techniques will be lectured to help students become able to explain the principles of each procedure and the type of analysis the procedure is used for. In addition, students will aim to obtain certification as an advanced biotechnology engineer (from Japan Association of Biotechnology Education). This is in line with the Master's Diploma Policy, which requires students to acquire a high degree of expertise and a broad perspective on nutritional science and health science.							
Course D	22						
Course Pl	an		1				
1) Plasmids and phages8) Mutagenesis2) Libraries and cloning9) ES cells3) Expression of cloned genes in <i>E. coli</i> 10) iPS cells4) Introducing cloned genes into Mammalian cells11) Transgenic animals and KO animals5) Preparation and analysis of DNA12) Regenerative medicine6) Preparation and analysis of RNA13) Laws and ethics7) Preparation and analysis of Rrotein14) Basics of bioinformatics							
Work to b	pe done outside of class (p	reparatio	on, etc.)				
Review the	undergraduate courses of ["] Bioche ed that students spend approxima	emistry," "I	Molecular Nut				
Grading o	criteria			Textbooks	References		
Evaluation will be based on reports. Feedback will be given on the submitted reports.		N/A	 1. 佐久間慶子、福島亜 紀子著 栄養と遺伝子の はなし-分子栄養学入門 技報堂出版 2. 有波忠雄、太田敏 子、清水淑子、福島亜紀 子、三村邦裕編 メディカ ルサイエンス遺伝子検査 学 近代出版 3. 田村隆明著 基礎 から学遺伝子工学第3版 				
				Materials	Remarks		
				Materials will be distributed as needed.	N/A		

Subject	Advanced Lectures on Immunology Pr	of. Kenichi Ishib	ashi Compulsory	X Selective 2 credit				
Course go	pals							
Under the theme of understanding diseases caused by disorders of the immune system, including allergies, and the impacts of lifestyle habits on the immune system, the goal of this course is to become able to understand the formation of general immunity and mucosal immunity, their connection with allergic diseases, stress and immunity, and the circadian rhythm of the immune system, and to examine and understand study cases regarding immunity and its related fields.								
Course Summary								
This course will provide lectures on immunity-related diseases and the connection between lifestyle habits and immunity. Students will have discussions on the topics of their interests to deepen understanding of these topics.								
Course Pl	an							
 1) 2) Basics of immunity - How the immune system protects the body 3) 4) Circadian rhythm of the immune system - Mechanism of the body clock and its role in maintaining health 5) 6) Stress and immunity - Interaction between the nervous and endocrine systems and the immune system 7) 8) Local mucosal immunity - Mucosal immunity as a preventive device against foreign invasion 9) 10) Allergy - Tissue damage by immunological mechanisms, food allergy and its management 11) 12) Functions of intestinal flora and immunity 13) 14) Food and immunity - use of supplements, etc. 								
Work to b	be done outside of class (preparati	on, etc.)						
lecture and	nctively participate in class, students are rec the connection between the research theme vance (200 minutes per week).							
Grading c	riteria		Textbooks	References				
Evaluation will be based on participation in discussions of lecture content.		PowerPoint handouts, etc., will be distributed as needed.	「新版微生物と免疫」(林 修編著、建帛社)、「栄養 科学イラストレイテッド生 化学 改訂第2 版」(園田 勝編、羊土 社)、「時間生物学事典」 (石田直雄・本間研一 編、朝倉書店)、「ス トレスの事典」(河野友 信・石川俊男編、朝倉書 店)、「免疫と栄養」(横越 英彦編、幸書房)、 「臨床粘膜免疫学」(清野 宏編、シナジー)					
			Materials	Remarks				
			PowerPoint slides for lectures	Online classes may be used in conjunction with the program, depending on the situation.				

Subject	Advanced Lectures on Exercise and Pathophysiology	Prof. Toshikazu Yamashita	Compulsory	Х	Selective	2	credit
Course g	oals						

The course aims to help students become able to make a presentation and have discussion with other students using the theme of exercise-induced asthma as a model for considering the interaction between sports and health.

Course Summary

To complete research activities, it is essential to repeatedly go through the process consists of getting ideas, planning, experiments and surveys, data aggregation, consideration, and presentation and discussion. In the first half of this course, students will learn the current situations surrounding exercise-induced asthma through literature etc., and then they will learn techniques to aggregate data using model data. In the second half, students will practice skills to prepare and make presentation, attempting to accomplish effective discussion.

Course Plan

 What is exercise-induced asthma? 1: Identify issues surrounding exercise-induced asthma. Identify efficient ways to read academic papers in the natural sciences. What is exercise-induced asthma 2: Consider the problems that exercise-induced asthma brings to children's growth and society. 	 8) Presentation techniques: Watch videos of excellent presentations to check skills and practice them. 9) Discussion techniques: Thinking about constructive discussion methods in natural science.
3) Research method 1: Physiological experiments using model animals and cells	10) Presentation and discussion exercise 1 11) Presentation and discussion exercise 2
4) Research method 2: Physiological experiments using human	12) Presentation and discussion exercise 3
body measurements 5) Research method 3: Effective online questionnaire method 6) Research method 4: Data aggregation by PC	13) Presentation and discussion exercise 414) Reflection and summary
7) Research method 5: Data storage and backup	

Work to be done outside of class (preparation, etc.)

If students wish to learn more about topics they are interested in, those topics will be given priority. Therefore, students are required to be prepared to present their own research topics at all times. (Preparation time is about double the class time.)

Grading criteria	Textbooks	References	
 Participation in class (50%) Presentation (50%) 	Handouts will be distributed as needed.	N/A	
	Materials	Remarks	
	N/A	N/A	

Subject	Advanced Lectures on Pathological Cytology P	rof. Toshihide Shio	otsu	Compulsory	X Selective	2	credit
Course	goals and Summary				<u> </u>		
Course goals and summary: A pathological diagnosis is regarded as the final diagnosis of a disease in clinical practice and has important implications in deciding on a course of treatment for a patient and other aspects. It is occasionally used as a judicial document and evidence. In histopathological diagnosis, cytodiagnosis sometimes gives greater insights than histodiagnosis and plays a significant role. In addition to learning histopathological proofs and various diagnostic techniques, the study of clinical cytology is critical to gaining a deeper understanding of disease. In this course, students will learn pathological background, specimen preparation methods, and the characteristics of tissue and cell images, which are all necessary to determine the benignancy or malignancy, tissue type, and other aspects of tumor cells based on cell images while comparing macro and micro images. Further, students will also learn auxiliary diagnoses, such as specific immunostaining. Students study anatomy, pathology, and cytology as the basis of diseases and pathological conditions, and acquire sufficient research skills, in order to acquire advanced academic knowledge and expertise from a broad perspective as a nationally certified professional in the health sciences, in relation to the DP.							
Course	e Plan						
 2) Origin (3) Macros 3) Macros 4) Macros 5) Prepara specimen 6) Prepara specimen 7) Looking 	 The role of cytodiagnostics. Origin of vital organs Macroscopic view. Touching the organs. (a) Macroscopic view. Touching the organs. (b) Macroscopic view. Touching the organs. (b) Dreparation of tissue specimen, how to view and cut out the specimen. (a) Preparation of tissue specimen. how to read and cut out the specimen. (b) Dreparation of tissue specimens. (a) Looking at tissue specimens. (b) 						
Work t	to be done outside of class (preparation	on, etc.)					
	arning, always keep in mind anatomy, histology, a ass, and check the textbook.	nd general path	nology a	s you orgar	nize content	pres	ented
Gradin	g criteria		Tex	tbooks	Refer	ence	es
 In−class performance (50%) 			Use undergr textboc anatom histolog patholo cytodia	ks on y and gy, gy, and	Textbooks considered but referen materials w introduced	suffic ce ill be	,
Report (50%) Materials Rema						arks	S
			N/A		The locatio class will be announced by-case ba	e on a	

Course goals and Summary Course goals: Students will acquire practical skills through practices of blood tests, bone marrow transfusion tests. Hands-on learning: Students will learn the meaning of the tests necessary for the diagnosis of h diseases, the test items and combinations necessary for differential diagnosis, and will become a the test results. Students will also learn how to read peripheral blood and bone marrow hemogra extent.	nematologic able to interpret ams to some					
transfusion tests. Hands-on learning: Students will learn the meaning of the tests necessary for the diagnosis of h diseases, the test items and combinations necessary for differential diagnosis, and will become a the test results. Students will also learn how to read peripheral blood and bone marrow hemogra extent.	nematologic able to interpret ams to some					
Course Plan	/words: peroxidase					
Course Plan	/words: peroxidase					
Course Plan	/words: peroxidase					
	/words: peroxidase					
 Blood counts (leukocytes, erythrocytes, Hb, Ht, MCV, MCH, MCHC, reticulocytes, differential leukocyte counts) Microscopic observation of peripheral blood smear image (i) (Keywords: leukocyte classification, immature myelocyte, toxic granule, hypersegmented neutrophil, left shift) Microscopic observation of peripheral blood smear image (ii) (Keywords: spherocyte, schistocyte, giant platelet) Anemia tests (Keywords: iron, total iron binding capacity (TIBC), ferritin, vitamin B12, folic acid, haptogloblin, bilirubin) Bone marrow examination (Keywords: hypercellular bone marrow, hypoplastic marrow, M:E ratio, megakaryocyte count) Microscopic observation of myelograms (i) (Keywords: blasts, immature myelocyte mature neutrophil, erythroblast, megakaryocyte) Microscopic observation of myelograms (ii) (Keywords: plasma cell, lymphocyte, abnormal lymphocyte) 						
Work to be done outside of class (preparation, etc.)						
Review the handouts used in class and check your own understanding of the class. Approximately 200 minutes per week.						
Grading criteria Textbooks F	References					
Handouts will be distributed as needed. Participation in class and a simple oral examination during class will be	気が見える vol.5 」医療情報科学研 編、メディックメ z					
used to check for understanding. Materials	Remarks					
N/A N/A						

Subject Advanced Lectures on School He	ealth Nursing Pro	of. Nobuko Endo	Compulsory	X Selective 2	credit		
Course goals and Summary			<u> </u>				
Based on the significance and purpose of and mental health problems and developm issues surrounding school health, and to e it, and approaches to problem-solving.	ental issues of c	hildren, as well a	is the actual cor	nditions and va	arious		
Students will learn about the reality of children growing up under the influence of changing societies and families through changes in politics, culture, economy, education, etc. The course will also cover the various problems and issues that school health is currently facing; in relation to the roles of school nurse teachers who are central to school health, school education and school health organization activities, school health and safety planning, and cooperation between families, local communities, and specialized institutions. The course will also consider how the school works as a team and how to cooperate with other actors in school health to solve problems.							
Course Plan							
 Course Plan The first and the last sessions will be face-to-face lectures, but the second and subsequent sessions will be held online depending on the number of students enrolled and the circumstances. 1) Meaning and purpose of school health, domain and structure (common lecture with nutrition science course): Students will learn about the domain and structure of school health in light of contemporary health issues and health needs. In addition, students will learn about the domain and structure of school health. (Keywords: health issues, health issues and school health. (Keywords: health issues, health issues, health education, health management) 2) History and transition of school health. (common lecture with nutrition science course): Students will learn about the historical changes in school health and associated changes in the role of the school nurse teacher? (Keywords: school health, history, school nurse guidance, school nurse teacher) 3) 4) 5) Trends in pupils' health issues and school health: Students will research and discuss the changes in pupils' health issues and school health. then explore possible ways to solve such issues. (Keywords: truancy, bullying, abuse, Council for the Implementation of Education Rebuilding) 					ns for n school ords: urse nutrition ool health eme tc.) to sessment) nutrition he current olan, etc.)		
Work to be done outside of class	s (preparation	n, etc.)					
	For preparation, read the specified materials and do the assignments presented (about 100 minutes). For review, students will review the materials distributed during the lecture (about 100 minutes).						
Grading criteria	Text	books	Refe	erences			
	Textbooks w assigned in t	the first	ferences will be ss.	assigned in th	ne first		

	assigned in the first class.	References will be assigned in the first class.
	Materials	Remarks
 Performance on assignments (70%) Report (30%) The theme of the report will be the medium of the presentation and the manuscript of the presentation that each student gave in the 14th session. 	Materials will be distributed as needed.	Students must participate at least once in a meeting of the Japanese Association of School Health or other related academic societies or attend a research class held at schools and submit a report on what they learned. Classes will be comprised of various forms, including lectures, discussions, hands- on tasks, and student presentations. As part of the graduate program, students are expected to invest all the knowledge and experience they currently have and independently engage in problem-solving.
	17	

Subject	Advanced Lectures on Mental Health	at School	Prof. Tsukasa Sas	saki	Compulsory	X Selective	2	credit
Course g	oals							
and disabilit	this course is to help students ac ies and mental health and disabili e's rooms and health consultation owledge.	ties. Also	, it aims to raise	skills o	of students f	or the man	agen	nent of

Course Summary

First, the knowledge on mental health learned in the undergraduate programs will be reviewed and more accurate knowledge will be acquired. Then, students will obtain knowledge and skills needed at school, including how to evaluate children's mental health and disabilities, as well as developmental disabilities, response to children and their parents when they suspect problems, collaboration with other teachers and staff, how to improve knowledge of children, parents, teachers and staff members on mental health, and collaboration with physicians and other specialists. All issues will be covered in the forms of lectures, literature readings, and discussions.

Course Plan

 General theory of school mental health Child development, disability and related factors 	9) Eating disorders and addictions 10) Early detection, early response and education on
3) Age of onset, frequency, course, and major symptoms of	mental illness
mental disorders	11) Doing what you can: dealing with parents and teachers
4) Assessment of mental health	12) Management of Health Office and Cooperation with
5) Sleep, sleep disorder and orthostatic regulation disorder	School Counselor
6) Hyperventilation syndrome, anxiety, and adjustment disorder	13) How to continue sharing information with psychiatrists
7) Depression, bipolar disorder and related disorders	14) Overview of school mental health: Confirmation of the
8) Schizophrenia, autism spectrum disorder and ADHD	contents of study

Work to be done outside of class (preparation, etc.)

Students will be required to read articles related to the class theme as homework in order to improve their understanding of the class.

Grading criteria	Textbooks	References
• In-class performance (40%) • Reports (30%)	N/A	佐々木 司・竹下君 枝:著、精神科医と養 護教諭がホンネで語る 思春期の精神疾患(少 年写 真新聞社)
 Exam during the final class session (30%) 	Materials	Remarks
	Other materials will be announced (or distributed) on a case-by-case basis.	lectures discussions

Subject Advanced Lectures on Gender Education Pro	of. Toshimi M	arui	Compulsory	Selective	2	credit			
Course goals and Summary									
 Students will become able to understand and explain the significance and necessity of sexuality education in school education. Students will become able to understand that comprehensive sexuality education in school is structured based on facts and scientific evidence regarding sexual and reproductive health, sexuality, behavior, and attitude. Students will become able to examine the current state of sexuality education in Japan in comparison with the situation other countries and to specifically consider issues of sexuality education in Japan. 									
Global trends in sexuality education are to see sexuality from the perspectives of human rights and science and to aim at ensuring the sexual health of all children. Meanwhile, in Japan, due in part to the sexuality education bashing which has continued since 2002, educators have tended to express a cautious attitude toward guidance on sexuality in school. Even now problems regarding sex related to youth continue to exist, highlighting that there remain issues due to the lack of appropriate sexuality education. In light of these circumstances, this course will examine the current state of sexuality education in Japan in comparison with the situation in other countries and consider issues of sexuality education in Japan and comprehensive sexuality education in school.									
Course Plan									
 Subject Orientation, the current status of sexuality education in other countries (a) Orientation, sexuality education in other countries: Subject orientation and explanation of how students will be evaluated. Understand the differences between sexuality education in Japan and other countries from the perspectives of the lecturer, the subject, and the content, and think about issues in Japan. 2) Understanding of sexual diversity (b) Sexual diversity, SOGIE: Understand why it is important to learn about sexual diversity, learn how it is positioned in global organizations, and think about issues in Japanes eschool education (c) Comprehensive Sexuality Education (CSE): Based on the International Technical Guidance on Sexuality Education, which was revised in 2018, the lecture explains the purpose, target audience, and contents of CSE. 4) Effective implementation of a CSE program (d) Key concepts and curriculum development: The lecture explains key concepts, topics, and learning objectives of CSE as described in the International Technical Guidance on Sexuality Education. Elements necessary for the development of a CSE program will be discussed. 5) Current status and issues surrounding sex and sexuality education in Japan (e) Gender and young people's sexual behavior: The reality of gender equality in Japan and efforts thereof will be explained. Learn about the current state of sexual behavior among young people in Japan, and understand that sexual behavior is related to a variety of socio-environmental factors. 6) Sexuality-related guidance and government educational guidelines: The actual status of sexuality-related guidance provided at primary, secondary, high, and special-needs schools will be explained using sexuality guidance manuals issued by respective local governments and other reference materials. Based on educational guidelines, measures to enhance the effectiveness of sexual	 (h) Testing and Understand dor think about the society living w <u>9) Pregnancy. (c</u> (i) Reproductive to take an auto abortion from t <u>10) Pregnancy.</u> <u>health/rights (2</u> (j) Contraceptive contraceptive r sexuality education (k) Understance reality of sexual bullying will be communication health and attitt <u>Partnership Sy</u> (l) Local govern This lecture ex are being imple compensation r examine why it of rights for tw <u>13) Sexuality e</u> (m) Presentation the class to su <u>14) Sexuality e</u> 	I treatment mestic and a lives of H with HIV/A childbirth a e Health a phomous a the perspe- childbirth 2) we methods we ation to he contracep at the perspe- childbirth 2) we methods we at the perspe- childbirth at the perspe- childbirth 2) we methods we at the perspe- childbirth 2) we method we set the perspe- childbirth 2) we method we set the perspe- childbirth 2) we ment of the childbirth 2) we method we set the perspe- childbirth 2) we ment of the childbirth 2) we method we set the perspe- childbirth 2) we ment of the childbirth 2) we ment of the childbir	at, employment of d international t HIV-positive peo JDS, and learn a and abortion as and Rights: Lear approach to pre- dective of reprodu- the explained elp young people tive methods. reventing sexual al violence and p sexual violence, . Students will t uired of profess a supporter. <u>Same-Sex Marri- tion of the Cons- of the same sex Workshop (1)</u> oup discussions on the course. <u>workshop (2)</u> up discussion discussions on	rends in HIV ople. Think ab about pep and reproductive in the knowle gnancy, childb uctive health as reproductiv nation: Variou . Consider su e make indepo I violence thr orevention ed partner violen hink about wa sionals who do riage Litigatio e-sex marriag dinances and ents. Lawsuit ages will be in stitution and is to be unable the issues po	infect out ou d prep. <u>healtl</u> dge ne dirth, a and ri e s pport endent <u>ough</u> ucatio nce ar ays to al wit <u>n</u> ge law, ge law, for so for so ntrodu nfring to ma	tion, and ur <u>h/rights</u> eccessary and ights. and t t on: The nd improve th sexual <u>12)</u> rsuits: lines that state uced, to gement arry. ted in			
Work to be done outside of class (preparation, etc.)									
A list of literature related to the lecture will be distributed at the beginning of the course, so please study it beforehand.									
Grading criteria			Materials	/Referen	ces				
50% of the evaluation will be based on contribution to the the class development (ordinary points) and 50% on submise reports.		編著『教 2018 年、 タチまで 店、2017	として、橋本紀子 科書にみる世界 橋本紀子、田代 こ知っておきたし 年を使用するかの参考書を紹介	子、池谷壽夫、 の性教育』か 、美江子、関ロ い性のこと』改 、その他、資	田代 もがれ コ久志 訂版、	美江子 つ出版、 [編著『ハ 、大月書			

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Subject	Adva	anced L	.ectures	on Hum	nan Gro	owth ar	nd Health	Pro	of. Shig	eho Ta	naka	C	Compul	sory	Х	Selectiv	e 2	с	redit
Course g	joals	5																	
The course status (obes solving metl	esity a	and th	inness	s) and I			-								-				tion
Course S	Sumr	mary	1																
Nutritional s determinant based on ap each.Theref evaluation r nutritional s	its are pprop fore, metho	e ofter riate a based ods ar	n disc assess I on th	ussed i sment a le colle	n chil and in ction	ldren, ivestig and ir	but to t gation m nterpret	truly netho tatio	under ods an n of so	stand d expe cientifi	them erimer ic find	requ ntal a ings	iires s and re and a	cien sear n un	tifio ch der	c inter results rstandi	oreta for ng of	tior	
Course P	Plan																		
 Introduction: Importance of scientific evidence and thinking from the perspective of the discrepancy between "common knowledge" and scientific knowledge Method of collecting and reading literature Socurrent status of obesity and thinness in children and evaluation methods To Causes of obesity in children and countermeasures 					ty and I) Evalı	sedent Jation	tary b of life	oehavio estyle	or in in ge	chil ner	dren al, inclu								
Work to	be d	lone	outs	ide o	f cla	ss (p	orepar	atic	on, et	tc.)									
Students ar and investig expected to self-studies	gating o prep	g it on pare r	their eports	own, n on iss	ot acc sues ra	ceptin aised	ng inform in class	natio s (e.g	on with g., revio	iout qu ew of j	uestio	ning.	In ad	ditio	n, s	student	s are		
Grading o	crite	eria									T	ext	book	S		Refe	eren	ce	S
• In−class p • Presentat			.e (50	%)							N/A				N/J	A			
												erials ared	will b as	e	N//		mar	ks	

role in school health activities, from various perspectives. In addition, they will become able to visualize and write about planning, operation, evaluation, and improvement processes based on the exeprtise of school nursi teachers and tangible examples of these through on-site observations at a school, etc. Course Summary The history and historical facts of Japanese yogo-teachers (school nursing teachers) will be examined from international perspectives. Based on the philosophy of health promotion, recent trends in educational reforms and trends surrounding the physical and mental health of children and schools, discussions will be made on ro of yogo-teachers (school nursing teachers), who play a central role in school health activities, and how to pla operate, evaluate, and improve the roles based on the expertise of nursing teachers in reference to actual conditions at schools and what are described in literatures. Course Plan (1) 2) The essence and concept of nursing history of the school nurse system, and changes in the duties and roles of a yogo-teacher (a school nurse teacher) 3) 4) Curriculum and the yogo-teacher (school nurse teacher) b) 6) Cooperation with other teachers and staff on school health; special needs education and the school nurse teacher 5) 6) Cooperation with other teachers and staff on school health; special needs education and the school nurse teacher 5) 1) 12) Fieldwork in sectors related to school nursing 13) 14) Student presentations based on lursarture and fieldwork related to the duties, roles, and expertise of yogo-teachers (school nurse teachers). Work to be done outside of class (preparation, etc.) Collect and read the relevant literature. Students are expected to prepare for about twice as much time as the class time.		nced Lectures on Pedagogy in Nursing	Prof. Kumiko Oh	numa	Compulsory	X Selective	2 credit				
role in school health activities, from various perspectives. In addition, they will become able to visualize and write about planning, operation, evaluation, and improvement processes based on the exeprtise of school nursi teachers and tangible examples of these through on-site observations at a school, etc. Course Summary The history and historical facts of Japanese yogo-teachers (school nursing teachers) will be examined from international perspectives. Based on the philosophy of health promotion, recent trends in educational reforms and trends surrounding the physical and mental health of children and schools, discussions will be made on ro of yogo-teachers (school nursing teachers), who play a central role in school health activities, and how to play operate, evaluate, and improve the roles based on the expertise of nursing teachers in reference to actual conditions at schools and what are described in literatures. Course Plan 1) 2) The essence and concept of nursing, history of the school nurse system, and changes in the duties and roles of a yogo-teacher (a school nurse teacher) 3) 4) Curriculum and the yogo-teacher (school nurse teacher) 5) 6) Cooperation with other teachers and staff on school health; special needs education and the school nurse teacher 5) 6) Cooperation with other teachers and staff on school health; special needs education and the school nurse teacher 5) 10 Cooperation with other teachers and staff on school health; special needs education and the school nurse teacher 5) 4) Student presentations based on literature and fieldwork related to the duties, roles, and expertise of yogo-teachers (school nurse teacher). Work to be done outside of class (preparation, etc.) Collect and read the relevant literature. Students are expected to prepare for about twice as much time as the class time.	Course goals	Course goals									
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		he relevant literature. Students are	expected to pro	epare for	r about twic	ce as much t	ime as the				
Grading criteria Textbooks References	Grading criter	ia		Tex	tbooks	Refer	ences				
Based on class participation (20%) and reports (80%). Breakdown of criteria for evaluating submitted reports are as follows: Achievement of assignment objectives (40%) Materiality to nursing practice (30%) Supporting materials (10%) Materials will be distributed as needed.	criteria for evaluating submitted reports are as follows: • Achievement of assignment objectives (40%) • Materiality to nursing practice (30%)			説(ぎょ * 事前 ること Ma Materia distribu	うせい) に購入す terials als will be uted as	Participation for school nu require paym Some classe conducted o cases, stude	in seminar urses may hent of a fe s may be nline. In su nts will be				

Subject Research Methods in Health Sciences I (Information Processing) Pr	rof. Hiromitsu Oga	ata	Compulsory	V Selective	1 cred	lit				
Course goals										
 The topic of the course is basic methods of quantitative research. The objectives of the course are as follows. (1) Understand the basic methods of statistical surveys and be able to process the data obtained. (2) To be able to explain the basic theories of statistics necessary for data analysis. (3) To be able to explain the significance and calculation methods of various statistical indicators derived from data. (3) Explain the significance and calculation methods of various statistical indicators derived from data. 										
Course Summary										
Students will learn the basic theories of statistics, significance and calculation methods of statistical indices, basic statistical survey methods, and statistical analysis methods necessary for conducting quantitative research in the fields of health and nutrition. In particular, students will learn the scientific concepts of data collection, analysis, and interpretation, with the aim of being able to conduct research that will provide scientific evidence in the fields of health and nutrition.										
Course Plan										
 Significance of statistics (Introduction) Methods of descriptive statistics Fundamentals of statistical estimation and testing Statistical inference about mean value 	5) Correlation a 6) Statistical ir 7) Interpretatio results	ferenc	e about fre	quency	nalysis					
Work to be done outside of class (preparatio	on, etc.)									
Students are expected to prepare and review about 400 r class.	minutes per wee	ek for t	he assigni	nents preser	nted in ea	ch				
Grading criteria		Tex	tbooks	Refer	rences					
 In-class performance (30%) Reports (70%) Report assignments will be presented in class. 	d	listribu Jeeded		緒方裕光編 健康統計学 2021 Ren						
	٢	I/A		N/A						

Subject	Research Methods in Healtl	n Sciences II (Experiments)	Prof. Akiko Fukus	hima	Compulsory	X Selective	1	credit		
Course	goals and Summ	ary								
Based on the knowledge learned through Advanced Lectures on Molecular Biology, students will understand specific molecular biological techniques, such as nucleic acid extraction, gene amplification methods, and genetic transformation, and will become able to conduct simple operation. This contributes to students' research competence in nutritional science and health science, as stated in the Diploma Policy.										
Course	Plan									
1) 2) Preparation of genomic DNA 5) 6) Recombinant DNA Experiments 3) 4) Amplification of DNA by the PCR 7) Conclusion										
Work to	o be done outside	of class (prepara	tion, etc.)							
It is reco	It is recommended that students spend at least 200 minutes in total for preparation and review for each class.									
Grading	g criteria			Tex	tbooks	Refer	enc	es		
Evaluatio submitted		orts. Feedback will be gi	ven on the	N/A		 佐久積 佐久積 大人間 人版 大人間 と養 大人間 と養 次日 次日 (法) ((1,1)) ((1,1))	A 子門 田 田 子 門 田 紀 ノ 丁 田 紀 ノ 丁 田 和 二 、 大 四 一 の 一 の 一 の 一 の 一 の 一 の の の の の の の の	はなし 技報 子、 、 村ン版 分 代編		
				Ma	terials	Rem	ark	S		
				Handou distribu needed		N/A				

Subject Research Methods in Health Sciences III (Surveying) A/P	rof.Masaharu Kagawa	Compulsory	X Selective	1 credit					
Course goals and Summary		•							
In order to conduct a meaningful research, appropriate research design based on research objectives and adequate data management are essential. The goal of this course is to provide the Master of Health Sciences student with an understanding of the procedures for conducting appropriate research and the construction of a basic research design.									
This course is designed to provide an overview of research methods used in the health sciences, especially in surveying, through reading and discussion of research papers									
Course Plan									
 Conducting research (research, misconduct) Deciding on a research theme: literature search and formulation of research hypotheses (research topic, literature search, hypothesis) Cross-sectional and longitudinal (research study design, level of evidence) Preparation and understanding of research methods (data collection, sample size) 	5) Statistical anal statistics) 6) Preparation of Ethical Review Co 7) Publication of oral presentation,	the research pla ommittee (ethics, research outcom	n and submiss , ethical revie	sion to the w)					
Work to be done outside of class (preparation	n, etc.)								
Since the lecture will be related to actual research, studen participate in the discussion with their progress. It is desira as the class hours to learning outside the class.	•								
Grading criteria		Fextbooks	Refer	ences					
\mathbf{L}	dist nee	ndouts will be tributed as eded in rance.	N/A						
 In-class performance and comments in class (25%) Report assignments after each lecture (35%) Final report assignment (40%). 	As lec give Pov Pap use	MaterialsRemarksAs a rule, lectures will be given using PowerPoint.The content may be changed depending the number of stud. In some cases, the lecture will be held online lecture using Microsoft Teams.							

Subject	Advanced Common Lectures on Research Methods in Health Sciences I ${\sim} \mathrm{IV}$	Prof. Hiromitsu O	gata	Compulsory	X Selective	1	credit			
Course	e goals and Summary			1						
The Graduate School of Kagawa Nutrition University and the the National Institute of Public Health have concluded a partnership agreement on human resource development and cooperation in research. Under this agreement, students are able to take some of the short-term training courses and, as special students, the courses offered in the specialized courses for long-term training by the National Institute of Public Health. By taking courses offered at the National Institute of Public Health, students will acquire skills necessary to play a leading role in the health sciences and social welfare through acquiring a wide range of knowledge and specialized skills in the fields of public health. Students can earn credits for the course of Advanced Common Lectures on Research Methods in Health Sciences I-IV, according to the number of hours for the course taken.										
Course	e Plan									
Course Plan For more information on the training programs offered by the National Institute of Public Health, please visit the following website. https://www.niph.go.jp/entrance/r5/index.html										
Work to be done outside of class (preparation, etc.)										
Read the related materials indicated in class, and prepare for and review the class. Grading criteria Textbooks References										
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			Ма	iterials	Rem	nark	S			
	on will be based on a report assigned after the Institute of Public Health.	course at the	Nationa		Since the train offered by the Institute of Pu are originally i local governm graduate stud university may be able to atto training course subjects of th they do not m course require there are rest number of par	Nation Iblic H Intendent of ents of and the er ch eet the ment riction	onal Health ed for ficials, of the always ne class oice if ne s or if ns on the			

Subject Comprehensive Lectures on Health Sciences Pro	rof. Hiromitsu Ogata Compulsory X Selective 4 credit						
Course goals and Summary							
Comprehensive Lectures on Health Sciences is a compulso the first semester of the first year prior to other courses. I Health Science Program will provide 100 minutes lectures i opportunities to further understand the issues addressed ir perspective to make good use in their own research.	In principle, all of the full-time faculty members of the in turn. The course aims at providing students with						
Course Plan							
activities based on scientific evidence. To understand the outline of the "New Guidelines for Healthy Longevity" derived from long-term longitudinal epidemiological studies, and to learn about the latest good practices in community health activities. 5) 6) Prof. Hiromitsu Ogata: Scientific prediction of the effects of risk factors on health and appropriate countermeasures are one of the important issues in health science. Quantitative risk assessment and its application based on scientific data analysis and theory will be explained with specific examples. 7) 8) A/Prof. Masaharu Kagawa: What is "kin anthropometry", and the current status and issues of its use in the fields of health and sports medicine and public health. 9) 10) Prof. Yoshinori Kaneko: Development, dissemination, and evaluation of exercise methods and equipment that can be easily implemented by individuals, local governments, and NPOs to promote health, as well as the possibility of using parks as places for health promotion, based on past practical activities and research. <u>11) 12) Prof.</u> <u>Naoko Igoshi:</u> This lecture will explore the current situation and problems related to medical care through field experience and consider the future image, with the task of pursuing the ideal way of a clinical laboratory technician who has studied nutrition. <u>15) 16) Prof. Ken-ichi Ishibashi</u> : Immunity is one of the biological systems involved in homeostasis, and is involved in health maintenance and disease development. We will learn about the function of immunity in the onset and prevention of diseases, and introduce the relationship between immunity and health maintenance and medicine.	 17) 18) Prof. Shunichi Yamashita: This lecture will introduce research papers on exercise physiology and sports medicine that have been published, and explain how to identify research topics, and how to conduct research usine experimental materials and human subjects. 19) 20) Prof. Nobuko Endo: To discuss school health from multiple perspectives, including what school health is, and the changes in school health, students, and social needs. Current issues and future policies and measures related to school health will also be discussed. 21) 22) Prof. Shigeho Tanaka: To summarize the findings of the effects of lifestyle assessment methods such as physical activities, sedentary behaviors, sleep, and meals of various health issues in children, and to learn how to think scientifically and present future issues. 23) 24) Prof. Kumiko Onuma: To discuss the unique system of nurse teachers in Japan, the historical background of nurse teachers, and the future role of nurse teachers as school educators, and the future role of nurse teachers in team schools, based on the research on nurse practice. 27) 28) Survey & Utilization of Literature Survey 29) 30) Presentation Skills Seminar 31) 32) Lecture on the new ethical guidelines and guidelines 						
Work to be done outside of class (preparation	n, etc.)						
Pay attention to news in newspapers and other media so that you scientific and objective manner, be aware of global trends, and tr							
Grading criteria	Remarks						
Evaluation will be made on the basis of participation in clas submission of reports.	Students must also attend the literature search/utilization and presentation skill ss and improvement seminar, and lectures on new ethical guidelines and other						

submission of reports.

new ethical guidelines and other guidelines (research ethics education workshop).

Subject Comprehensive Seminars on Health Sciences Prof. Kenichi Ishib	oashi Compulsory	Selective 2 credit								
Course goals and Summary										
This course is offered in the second semester of the first year and the first semester of the second year with the attendance of all concerned faculty members and students. In the Comprehensive Seminars in the second semester of the first year, students shall select literatures in the international academic journals relevant to their research themes under the guidance of their supervisors and explain what are described in the literatures. Further, faculty members and students will discuss what can be used as a reference for the research of the student, as well as the limitations and possible improvement of research in the selected papers. The course aims to help students read and fully understand the overseas literatures. In the first semester of the second year, students will make presentations on the original plans, progress, future plans, and challenges of their research and get a chance to have advice toward the completion of their master's thesis. As this comprehensive seminar will be a valuable opportunity to learn about various fields of health sciences, students are requested to proactively participate in the discussion.										
Course Plan										
It will be held in the second semester of the first year (November-December) and the first semester of the second year (June-July). The schedule will be decided separately, but one to three students will give presentations per day during the 5th and 6th periods on weekdays.										
Work to be done outside of class (preparation, etc.)										
This exercise is the milestone of the two-year master's course. Each student is expected to prepare systematically according to the theme of his/her master's thesis so that he/she can give a presentation that meets the purpose of the general seminar.										
Grading criteria	Textbooks	References								
Students will make one presentation each in the second semester of the first year and the first semester of the second year, and will be	N/A	N/A								
evaluated based on the content of their presentations and their participation in discussions.	Materials	Remarks								
	Materials will be prepared by students and distributed.	N/A								