

1 Common Item

Category				Phoenix Leader Foundation Subjects			Phoenix Leader Common Coursework			Phoenix Leader Special Subjects							Fieldwork/ Internship			
Course				Disaster Medicine	Environmental Protection	Social Recovery	Disaster Medicine	Environmental Protection	Social Recovery	Disaster Medicine		Environmental Protection		Social Recovery		Degree Screening Committee・Education Committee	each course	Fieldwork Implementation Committee・Career Path Committee		
year				1			1			1							4	1	1	2又は3
Person in charge				Shinya Matsuura	Toshinori Okuda	Kenji Kamiya	Junko Tanaka	Kiyoshi Shizuma	Kiriko Sakata	Nobuyuki Hirohashi	Shinya Matsuura	Satoru Endo	Satoru Nakashima	Yoshinori Sugiura	Takeo Nishimura	Shinya Matsuura	—	Shinya Matsuura	Shinya Matsuura	
Credits				2	2	2	2	2	2	2	2	2	2	2	2	2	4or6	1	3	
NO		Learning Goals	Learning Objectives	An Introduction to Radiation Biology	Basic Studies for Environmental Sciences Biodiversity Science (Biodiversity Science)	History of Hiroshima Restoration	Initial Radiation Exposure, Internal Exposure, Epidemiology	Exercise of Radiation Measurement	Business Continuity Management (BCM)	Radiological Disaster Medicine	Radiation Genome Science	Radiation Physics	Radiation Chemistry	Theories of Adaptive Behavior	Theory of Community in Risk Society	Radiation Disaster Recovery Studies	Designated Subject by Primary Advisor	Short-term Fieldwork	Long-term Fieldwork/Long-term Internship	
1	C1-1	Global skills: The student will demonstrate leadership in global society.	The student can prepare academic papers by using a foreign language.							○						○		○		
	C1-2		The student can hold discussions by using a foreign language.		○				○		○						○		○	
	C1-3		The student can conduct business by using a foreign language.		○		○													○
	C1-4		The student can use judgment and coordination that are required to achieve objectives in an international group.		○				○										○	○
2	C2-1	Management skills: The student will grasp a situation from a scientific perspective, and guide consensus formation toward improving the situation.	The student can understand problems confronted by human society and problems encountered by groups.			○										○		○	○	
	C2-2		The student can propose measures for relevant problem solving tasks on the basis of correct knowledge and a high ethical sense.														○			○
	C2-3		The student can control the stresses of individuals and groups, and provide management so that the individuals and groups can advance in the appropriate direction.						○										○	○
	C2-4		On the basis of the experience of Hiroshima University, which achieved restoration from the damage caused by the atomic bomb, the student can clarify the role that they themselves should play in radiation disasters.			○														
3	C3-1	Interdisciplinary skills: The student will take a comprehensive look at the entire body of specialized knowledge, and utilize such knowledge as needed.	The student can utilize both knowledge and technologies that transcend specialized fields, and can propose and deploy original research.		○		○				○		○			○			○	
	C3-2		The student understands the diverse risks accompanying radiation disasters from a comprehensive viewpoint, and can recommend appropriate countermeasures.			○	○		○		○						○			
	C3-3		The student understands the fundamentals of radiation biology, and can evaluate the effects of radiation on the human body.	○										○					○	
	C3-4		The student understands the fundamentals of radioactive substances and radioactive rays, and can evaluate the dynamic state of radioactive substances in the environment.				○	○											○	
	C3-5		The student can grasp the stresses on individuals and groups at the time of a radiation disaster, and can present methods of solution.			○									○				○	

3 Radioactivity Environmental Protection Course

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Course				Disaster Medicine	Environmental Protection	Social Recovery	Disaster Medicine	Environmental Protection	Social Recovery	Disaster Medicine	Environmental Protection		Social Recovery		Degree Screening Committee Education Committee	each course	Fieldwork Implementation Committee Career Path Committee		
year				1			1			1						4	1	1	3
Person in charge				Shinya Matsuura	Toshinori Okuda	Kenji Kamiya	Junko Tanaka	Kiyoshi Shizuma	Kiriko Sakata	Nobuyuki Hirohashi	Satoru Endo	Satoru Nakashima	Yoshinori Sugjura	Takeo Nishimura	Shinya Matsuura	—	Shinya Matsuura	Shinya Matsuura	
Number of Required Credits				2	2	2	2	2	2	2	2	2	2		2	6	1	3	
NO		Learning Goals	Learning Objectives	An Introduction to Radiation Biology	Basic Studies for Environmental Sciences Biodiversity Science (Biodiversity Science)	History of Hiroshima Restoration	Initial Radiation Exposure, Internal Exposure, Epidemiology	Exercise of Radiation Measurement	Business Continuity Management (BCM)	Radiological Disaster Medicine	Radiation Physics	Radiation Chemistry	Theories of Adaptive Behavior	Theory of Community in Risk Society	Radiation Disaster Recovery Studies	Designated Subject by Primary Advisor	Short-term Fieldwork	Long-term Fieldwork/ Long-term Internship	
4	E4-1	The student will scientifically analyze the properties of the products of nuclear fission reactions created by nuclear power plant accidents, nuclear terrorism, and radiation accidents.	The student understands the circumstances that can lead to nuclear power plant accidents, nuclear terrorism, and radiation accidents, and understands the key points of safety management.			○				○	○								
	E4-2		The student understands the principles, structure, and nuclear fuel cycles of nuclear reactors.								○								
	E4-3		The student understands the structure and stability of atomic nuclei, the generation of radiation, and the phenomenon of nuclear fission reaction								○	○							
5	E5-1		The student understands the theory of diffusion of radioactive substances into the environment.					○			○	○							
	E5-2	The student will appropriately measure, analyze, and evaluate environmental contamination.	The student understands the measuring principles of nuclide analysis equipment for radiation measurement.					○			○						○		
	E5-3		The student can measure radiation by understanding both the analysis and measurement methods regarding nuclide analysis equipment for radiation measurement, can analyze measurement results, and can analyze and evaluate both internal and external exposure.				○	○			○								
6	E6-1	The student will analyze the environmental dynamic state of radioactive substances in the atmosphere, in the soil, and in the ocean, as well as contamination in foods.	The student understands the movements and dynamic state of radioactive substances in the atmosphere, in the soil, and in the ocean.		○			○			○								
	E6-2		The student understands the migration of radioactive substances from the atmosphere, the soil, and the ocean, to animals and plants, and understands the behavior of radioactive substances in animals and plants.		○			○				○							
	E6-3		The student understands contamination by radioactive substances in food, and can evaluate internal exposure from food.					○				○							
7	E7-1	The student will appropriately perform decontamination with respect to radioactivity, and will treat and store radioactive waste.	The student understands appropriate treatment of radioactive waste.					○											
	E7-2		The student understands appropriate storage of radioactive waste.								○								
	E7-3		The student understands decontamination pertaining to radioactive substances.					○				○							

