



UNIVERSITY OF THE EAST
Graduate School
Manila

Master of Science in Environmental Science (MSES) (Thesis)		
	Core	Units
GRR 7501	Statistical Methods Applied to Research	3
GRR 7502	Research Methods across Disciplines	3
		6
	Major	
GBS 7101	Advanced Ecology	3
GES 7101	Environmental Biology	3
GES 7102	Fundamentals of Environmental Science	3
GES 7103	Environmental Planning, Risk and Impact Assessment	3
GES 7104	Advanced Biogeography	3
GES 7105	Special Topics in Environmental Science	3
GES 7106	Environmental Climatology and Meteorology	3
		21
	Elective	
GES 7107	Radiation Biology	3
GES 7108	Freshwater Ecology	3
GES 7109	Terrestrial Ecology	3
GES 7200	Marine Ecology	3
GES 7201	Soil Biology	3
		6
GRR 7700	Comprehensive Examination	-
GRR 7980	Thesis 1	3
GRR 7990	Thesis 2	3
		6
	Total	39

CORE

GRR 7501 Statistical Methods Applied to Research

Fundamentals of statistics as applied to master's degree research, including population, sample, parameter, statistics, and variable; the branches of statistics, sources of data, sampling concepts, sample selection methods; analysis and interpretation of data using statistics software (3 units)

GRR 7502 Research Methods across Disciplines

Methods and designs, concepts, processes, tools and interpretation of results of research in different disciplines (3 units; Prerequisite: GRR 7501)

MAJOR

GBS 7101 Advanced Ecology

Principles and concepts underlying ecosystems' structure and function in natural environments with emphasis on tropical ecosystems such as marine, estuarine, lakes and rivers, forest, island and urban ecosystems. (3 units)

GES 7101 Environmental Biology

Biological aspects of environmental science. (3 units)

GES 7102 Fundamentals of Environmental Science

Fundamental knowledge of the earth's environment in terms of the properties, structures and processes; interrelationships of the atmosphere, lithosphere, hydrosphere and the biosphere. (3 units)

GES 7103 Environmental Planning, Risk and Impact Assessment

Framework and techniques of environmental planning risk and impact assessment; the Philippine Environmental Impact Statement (EIS) System. (3 units)

GES 7104 Advanced Biogeography

Ecological and historical aspect of spatial distribution of plants and animals. (3 units)

GES 7105 Special Topics in Environmental Science

The aim of the course is to introduce the components and structure of an Environmental Impact Assessment (EIA). This course provides students with a working knowledge of the environmental impact assessment process and the information, including environmental studies, needed to prepare an environmental impact assessment document or an environmental impact statements. (3 units)

GES 7106 Environmental Climatology and Meteorology

Acquisition, processing and applications of climatological data; classification of world's climates; microclimatology; agrometeorology; Philippine climatology. (3 units)

ELECTIVE

GES 7107 Radiation Biology

Effects of various forms of radiations (natural and man-made) on living systems and the environment. (3 units)

GES 7108 Freshwater Ecology

Composition and dynamics of freshwater communities. (3 units)

GES 7109 Terrestrial Ecology

Composition and dynamics of terrestrial communities. (3 units)

GES 7200 Marine Ecology

Dynamics of marine systems with emphasis on Philippine coastal environments. (3 units)

GES 7201 Soil Biology

Biology of the soil environment; the interaction of the physical and chemical factors with the biological factors; microbial populations present in the soil. (3 units)

GRR 7700 Comprehensive Examinations

Prerequisite: Completion of all course work. (0 units)

GRR 7980 Thesis 1

Selection and presentation of research topic, writing and oral defense of research proposal (3 units;
Prerequisite: GRR 7700 Comprehensive Examinations)

GRR 7990 Thesis 2

Conducting, writing and oral defense of master's thesis approved in Thesis 1 (3 units; Prerequisite: GRR
7980 - Thesis 1)

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