

Course ILOs for Approved Common Core Courses (Subject Code: ENVR)

Course Code, Title and Course ILOs	Weighting	Area(s)
ENVR 1030 Environment and Health		S&T
CILO 1 Understanding environmental health issues; known and potential health effects; and control and regulatory approaches	NA	
CILO 2 Understanding adverse health impact of environmental stressors, and environmental health risk assessment and standard	NA	
CILO 3 Insights and skills to deal with their day-to-day environmental related health issues	NA	
ENVR 1040 The Environment and Society - A Comprehensive Perspective		S&T
CILO 1 Recognize the complex interaction between humans and the environment and the individual and the environment	NA	
CILO 2 Recognize the important influence of political, economic, social, and scientific forces on the environment	NA	
CILO 3 Be able to critically evaluate environmental challenges using multiple viewpoints to make informed decisions	NA	
CILO 4 Develop effective skills to locate and evaluate relevant resources for supporting and communicating ideas and concepts	NA	
CILO 5 Healthy lifestyle - develop/cultivate a sustainable lifestyle between the individual and the environment	NA	
CILO 6 Act as responsible citizens by understanding and communicating environmental issues	NA	
ENVR 1070 Thinking Big: Systems Thinking for Environmental Problems		S&T
CILO 1 Articulate the nature of a system, its complexity, self-organization and emergent processes	20%	
CILO 2 Create systems diagrams for a reasonably complex environmental problem	20%	
CILO 3 Analyze drivers, interactions between subsystems, and identify points of leverage within a system	20%	
CILO 4 Analyze an environmental problem and provide system design recommendations	20%	
CILO 5 Use systems thinking to develop creative ideas addressing environmental problems	20%	

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ENVR 1080	The Smart Consumer - Uncovering the hidden story behind the product label		SA, S&T
CILO 1	Comprehend what drives citizens to consume in an (un-)sustainable manner	20%	
CILO 2	Explain the consequences of unsustainable consumer behavior on the environment and social welfare	20%	
CILO 3	Identify critical product ingredients, categories and production steps by applying a life-cycle approach	20%	
CILO 4	Interpret product ingredients and critically analyze “sustainable” claims to recommend areas of improvement for product labeling	20%	
CILO 5	Create and develop tools that help to enhance consumer education and enable Hong Kong citizens make more sustainable purchasing choices	20%	
ENVR 1150	Climate Change Impacts and Extreme Weather Events		S&T
CILO 1	Understand the basic concept of natural climate variability and anthropogenic climate change	10%	
CILO 2	Identify the physical mechanism and regional vulnerability of individual extreme events (heat waves, cold waves, droughts, floods, tropical cyclones)	20%	
CILO 3	Describe how anthropogenic warming can make extreme events more likely to happen	10%	
CILO 4	Explain the general methodology for detecting and predicting climate change and technology which can be used in the fight against climate change	10%	
CILO 5	Describe how extreme events can affect social, economic and environmental sustainability	20%	
CILO 6	Assess the impacts of climate change and extreme weather events through a multidisciplinary approach	20%	
CILO 7	Take a global viewpoint on international policy or actions to mitigate the effects of climate change	10%	

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ENVR 1170 Science, Environment and Society - From Big Bang to Big Data		S&T
CILO 1 Understand historical contingencies from the shifting scales under Big History perspective and the relation of environmental impacts, the change of atmospheric composition and technology (collective learning) under the rapid industrial and economic development in the past 250 years	10%	
CILO 2 Utilize physical principles to explain the science of star formation, planetary evolution, the greenhouse effect and global climate change	10%	
CILO 3 Synthesize observational evidences and understanding of modeling frameworks, then interpret and argue for/against the occurrence of anthropogenic climate change	20%	
CILO 4 Apply the Big History "complexity and fragility" and "collective learning" concepts to critically assess the social and political risks, vulnerabilities as well as business opportunities associated with climate change mitigation and adaptation measures	30%	
CILO 5 Justify the rationales behind adoption of climate change mitigation and adaption measures by governments and major corporations around the globe irrespective of climate modeling uncertainties and limitations	10%	
CILO 6 Demonstrate integrative understanding of sustainability-related subjects under the Big History framework, including recognition of homo sapiens' unique role in maintaining sustainability of ecosystem for us and many other species, and thus, to argue for or against a variety of audiences on controversial climate-related issues	20%	
ENVR 2020 Urban Air Pollution		S&T
CILO 1 Understanding environmental air pollution problems, effect and solutions in general	NA	
CILO 2 Understanding the social and managerial context of urban air	NA	
CILO 3 Understanding chemistry and physics of air pollution and the way in which science interfaces with policies	NA	
CILO 4 Enhance students' writing and presentation skills	NA	
CILO 5 Enhance growing interest in environment within university programs	NA	

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ENVR 2050	Sustainability Thinking		SA
CILO 1	Have a functional understanding of the factors influencing sustainable behaviors, including social norms, incentives, the role of identity, forming new habits, and change management	20%	
CILO 2	See flaws and “blunders” in the way we traditionally make decisions and evaluate options	20%	
CILO 3	Recognize human values as a precondition for successful long-term decision-making	20%	
CILO 4	Demonstrate a level of competency in these areas by designing and implementing behavior change interventions and assessing the results	20%	
CILO 5	Understand and organize data, looking for trends, patterns, and other means of analysis	10%	
CILO 6	Reflect on work completed to recognize the process and flow of developing a successful implementation project	10%	
ENVR 2060	From Trash to Treasure: Managing Waste to Resources		S&T
CILO 1	Understand the anthropogenic origins and environmental impacts generated by MSW	20%	
CILO 2	Possess elementary knowledge regarding MSW collection, preprocessing and recycling	35%	
CILO 3	Assess feasibility of waste recycling strategy for selected MSW fractions	30%	
CILO 4	Assess and analyse costs and benefits of different recycling approaches	15%	
ENVR 2070	Smart Buildings for a Warming Planet		S&T
CILO 1	Comprehend the extent of carbon emission contributed by ‘urban buildings’ to Climate Change regime	5%	
CILO 2	Differentiate the key functional units of a building that directly/indirectly contributing to carbon emission	5%	
CILO 3	Conduct an Energy Audit with respect to Green Buildings and Renewable Energy	35%	
CILO 4	Acquire the smart tools to manage the attributes and transform buildings to become smart or carbon neutral	25%	
CILO 5	Understand the associated corporate, political and social drivers and barriers	10%	
CILO 6	Write evidence-based recommendation report for Smart/Carbon Neutral building for executive decision making	20%	

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ENVR 2310 Introductory Environmental and Health Economics		S&T
CILO 1 Understand economic models related to environmental and health issues	20%	
CILO 2 Use economic models to explain and analyze environmental and health issues	30%	
CILO 3 Valuation of environmental goods and health, conduct benefit-cost analysis	20%	
CILO 4 Analyze environmental and health policies using economics models	20%	
CILO 5 Apply the knowledge learned in class to analyze new environmental and health issues	10%	

NA : The course offering unit has not assigned any weighting for the course ILOs.

Updated as at 3 January 2023