

INTERNATIONAL UNIVERSITY OF JAPAN  
Graduate School of International Relations

Academic Year: 2016/2017

Term: Winter

Course	Course code ADC5420	Course title Environment and Human Security	
Name of Instructor	Watanabe Shinichi		Credit Number: 2
Instructor's contact Information	Office# 320	Office Hours Monday 19:00-21:00	E-mail: watanabe@iuj.ac.jp
Class Schedule Day / Time	Tuesday / 14:40 – 17:50		

Course Description: The expansion of human activities in the past 250 years has increased its impact on the ecosystem of the earth, which has begun to show a number of signs of instability, such as climate change, extinction of species, pollution of air, water, soil and living organisms. This course studies the changes in the interrelationships between human activities and the ecosystem of the earth, and the evolution of global policies and institutions that aim at maintaining the stability of the ecosystem and protect the life and freedom of current and future generations.

It considers two types of environmental risks and examines the implications of each type of risks for the evolution of policies and institutions to protect human security. One is the consequence of the success of the modern economic development in many countries in the world. Its management requires us to reexamine the viability of the existing mode of resource extraction, production, consumption and waste disposal for the world as a whole. The other is caused by the market failure which results in a large number of tragic incidents during the process of industrialization in many countries.

For each class of environmental risks we will ask the following questions.

What policies and institutions have evolved for reducing the risk and mitigating their negative effects on the life and livelihood of people?

How do the designs of policies and institutions reflect the interests of different stakeholders in the society?

How do they vary with the political, economic, social and cultural conditions of the society?

The fundamental question that links all these questions described above is: how to incorporate the principle of protecting human security (protecting the life, livelihoods and dignity of individuals) into the design of policies and institutions, when the risk is caused by various man-made environmental hazards. The main focus is the development of institutions and organizations that aim at controlling the environmental risk associated with technological development for the purpose of human security. In doing so, we will pay a special attention to the coordination problem between experts (scientist and engineers) and general citizens in determining the direction of technological development.

Learning Objectives: To acquire the skills and knowledge necessary to evaluate alternative policies and institutions in the historical context of modern political and socioeconomic development for managing the environmental risks from the viewpoint of human security.

Career Relevance: This course provides an academic background essential for those who desire to seek a career in formulating and implementing policies that incorporate the protection of natural and human environment.

Course Context or Rationalization: With a focus on Human Security, this course is closely related with the courses of "Poverty, War and Human Security", and "International Migration and Human Security". It is complementary to courses with a focus on State Security, such as International Politics, International Political Economy. With a focus on Environmental risks this course is also complementary to Environment related courses, such as Environmental Economics that examine the characteristics of environmental risks.

Delivery Methods: This course combines lectures, student presentations, case discussions and multiple internet resources.

Assessment: Grade will be based on homework assignments (30 points), one take-home exam (60 points), and the overall class participation (10 points). The take-home exam is due one week later after the last class meeting and should be submitted by e-mail. Plagiarism will be severely penalized and may result in grade F, termination of scholarship, or expulsion, depending on the circumstances.

Prerequisite: Concern over various environmental risks of humanity and desire to understand alternative ways to manage them.

Text book(s)	<p>Required:</p> <p>World Commission on Environment and Development (1987): <u>Our Common Future</u> , Oxford Univ. Press. Freely available at <a href="http://www.un-documents.net/our-common-future.pdf">www.un-documents.net/our-common-future.pdf</a></p> <p>Rachel Carson (1962): <u>Silent Spring</u>. <a href="http://library.uniteddiversity.coop/More_Books_and_Reports/Silent_Spring-Rachel_Carson-1962.pdf">http://library.uniteddiversity.coop/More_Books_and_Reports/Silent_Spring-Rachel_Carson-1962.pdf</a></p> <p><a href="http://archives.newyorker.com/?i=1962-06-16#folio=034">http://archives.newyorker.com/?i=1962-06-16#folio=034</a> to <a href="http://archives.newyorker.com/?i=1962-06-16#folio=098">http://archives.newyorker.com/?i=1962-06-16#folio=098</a></p> <p>Reference books/Journal Articles:</p> <p>Most references are chosen from those freely available at internet:</p> <p>UNDP (2007): Human Development Report 2007/2008, Fighting climate change: Human solidarity in the divided world. Macmillan: New York. Its pdf file is available at <a href="http://hdr.undp.org/en/content/human-development-report-20078">http://hdr.undp.org/en/content/human-development-report-20078</a></p> <p>UNDP (2010): Human Development Report 2011, Sustainability and Equity: A Better Future for All. Available at <a href="http://hdr.undp.org/en/content/human-development-report-2011">http://hdr.undp.org/en/content/human-development-report-2011</a></p> <p>WB (2003): World Development Report 2003, Sustainable Development in a Dynamic World, Transforming Institutions, Growth, and Quality of Life. Its pdf file is available at <a href="http://wdronline.worldbank.org/worldbank/a/c.html/world_development_report_2003/abstract/">http://wdronline.worldbank.org/worldbank/a/c.html/world_development_report_2003/abstract/</a></p>
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	<p><a href="#">WB.0-8213-5150-8.abstract</a></p> <p>WB (2010): World Development Report 2010, Development and Climate Change. Its pdf file is available at  <a href="http://wdronline.worldbank.org/worldbank/a/c.html/world_development_report_2010/abstract/WB.978-0-8213-7987-5.abstract">http://wdronline.worldbank.org/worldbank/a/c.html/world_development_report_2010/abstract/WB.978-0-8213-7987-5.abstract</a></p> <p>WB (2013): World Development Report 2014, Risk and Opportunity - Managing Risk for Development. Its pdf file is available at  <a href="http://wdronline.worldbank.org/includes/imp_images/book_pdf/WDR_2014.pdf">http://wdronline.worldbank.org/includes/imp_images/book_pdf/WDR_2014.pdf</a></p> <p>Many related papers are available at the websites:  <a href="http://www.footprintnetwork.org/index.php">http://www.footprintnetwork.org/index.php</a>  <a href="http://www.unep.org/">http://www.unep.org/</a>  <a href="http://www.ipcc.ch/">http://www.ipcc.ch/</a>  <a href="http://www.undp.org/">http://www.undp.org/</a>  <a href="http://www.nimd.go.jp/archives/english/index.html">http://www.nimd.go.jp/archives/english/index.html</a></p> <p>Commission on Human Security (2003): Human Security Now, available at  <a href="http://reliefweb.int/sites/reliefweb.int/files/resources/91BAEEDBA50C6907C1256D19006A9353-chs-security-may03.pdf">http://reliefweb.int/sites/reliefweb.int/files/resources/91BAEEDBA50C6907C1256D19006A9353-chs-security-may03.pdf</a></p> <p>IPCC (2007): IPCC Fourth Assessment Report,  <a href="http://www.ipcc.ch/pdf/assessment-report/ar4/syr/ar4_syr.pdf">http://www.ipcc.ch/pdf/assessment-report/ar4/syr/ar4_syr.pdf</a></p> <p>IRM, AIRMIC and ALARM (2002): Risk Management Standard.  <a href="http://www.theirm.org/publications/documents/Risk_Management_Standard_030820.pdf">http://www.theirm.org/publications/documents/Risk_Management_Standard_030820.pdf</a></p> <p>Kunreuther, H. and Slovic, P. (1996): Challenges of Risk Assessment and Risk Management, The Annals of the American Academy of Political and Social Sciences. Available at JSTOR.</p> <p>Ui, J.(1992): Industrial Pollution of Japan. UNU.  <a href="http://www.unu.edu/unupress/unupbooks/uu35ie/uu35ie00.htm">http://www.unu.edu/unupress/unupbooks/uu35ie/uu35ie00.htm</a></p> <p>UK HM Treasury (2006): The Stern Review Report on Economics of Climate Change.  <a href="http://mudancasclimaticas.cptec.inpe.br/~rmclima/pdfs/destaques/sternreview_report_comple te.pdf">http://mudancasclimaticas.cptec.inpe.br/~rmclima/pdfs/destaques/sternreview_report_comple te.pdf</a></p> <p>Wackernagel, M. and Rees, W. (1996): Our Ecological Footprint, Reducing human impact on the earth. NSP: BC. At MLIC.</p> <p>WCED (1987): Our common future. Oxford: New York.  <a href="http://www.un-documents.net/wced-ocf.htm">http://www.un-documents.net/wced-ocf.htm</a></p> <p>WHO (2005): World Health Report 2005 – make every mother and child count.  <a href="http://www.who.int/whr/2005/en/index.html">http://www.who.int/whr/2005/en/index.html</a></p>
Class Outline	<p>Part I Basic mechanisms of environmental risk</p> <ol style="list-style-type: none"> <li>1. Basic mechanisms of environmental risk</li> <li>2. Environmental risk and spaceship Earth</li> </ol> <p>Part II Human expansion in the spaceship earth</p>

	<p>3. Ecological footprint</p> <p>4. Ecological footprint</p> <p>5. UN response to environmental risks</p> <p>6. UN response to environmental risks</p> <p>7. Climate risk</p> <p>8. Climate risk</p> <p>9. Policy response to climate risk</p> <p>10. Policy response to climate risk</p> <p>Part III Polluting the spaceship</p> <p>11. Industrialization and pollution</p> <p>12. Industrialization and pollution</p> <p>13. Ashio copper mine poisoning</p> <p>14. Minamata Disease</p> <p>15. Pesticide, chemical products and human health</p> <p>16. Pesticide, chemical products and human health</p> <p>Part IV Energy of the spaceship</p> <p>17. Renewable energy</p> <p>18. Renewable energy</p> <p>19. Nuclear energy</p> <p>20. Open discussion</p>
Others (if any)	