



COURSE IMPLEMENTATION DATE: May 2013  
 COURSE REVISED IMPLEMENTATION DATE: \_\_\_\_\_  
 COURSE TO BE REVIEWED: May 2019  
*(six years after UEC approval)* *(month, year)*

**OFFICIAL UNDERGRADUATE COURSE OUTLINE INFORMATION**

Students are advised to keep course outlines in personal files for future use.  
 Shaded headings are subject to change at the discretion of the department – see course syllabus available from instructor

<b>GEOG 364</b>	<b>Geography</b>	<b>4</b>
COURSE NAME/NUMBER	FACULTY/DEPARTMENT	UFV CREDITS
International Planning and Development: Adapting to Climate Change		
COURSE DESCRIPTIVE TITLE		

**CALENDAR DESCRIPTION:**

This course explores urban and rural development strategies within the changing context of climate change, a globalized economy, technological change, demographic shifts and environmental degradation. It is intended for students interested pursuing a career in planning and development and also current professional staff from government agencies and NGOs desiring to upgrade or develop a specialism. Students will be introduced to climate change management techniques important for development planning, projects and policy.

PREREQUISITES: One of: GEOG 201, GEOG 211, GEOG 240, or GEOG 242.  
 COREQUISITES:  
 PRE or COREQUISITES:

**SYNONYMOUS COURSE(S):**

- (a) Replaces: \_\_\_\_\_
- (b) Cross-listed with: \_\_\_\_\_
- (c) Cannot take: \_\_\_\_\_ for further credit.

**SERVICE COURSE TO:** *(department/program)*

<b>TOTAL HOURS PER TERM:</b>	<b>60</b>	
<b>STRUCTURE OF HOURS:</b>		
Lectures:	<b>18</b>	Hrs
Seminar:	<b>30</b>	Hrs
Laboratory:		Hrs
Field experience:	<b>12</b>	Hrs
Student directed learning:		Hrs
Other (specify):		Hrs

**TRAINING DAY-BASED INSTRUCTION:**

Length of course: \_\_\_\_\_  
 Hours per day: \_\_\_\_\_

**OTHER:**

Maximum enrolment: **30**  
 Expected frequency of course offerings: \_\_\_\_\_  
*(every semester, annually, every other year, etc.)*

WILL TRANSFER CREDIT BE REQUESTED? *(lower-level courses only)*  Yes  No  
 WILL TRANSFER CREDIT BE REQUESTED? *(upper-level requested by department)*  Yes  No  
 TRANSFER CREDIT EXISTS IN BCCAT TRANSFER GUIDE:  Yes  No

Course designer(s):	<b>Cherie Enns, Lionel Pandolfo and Steven Marsh</b>	Date approved:	<b>October 4, 2012</b>
Department Head:	<b>Michelle Rhodes</b>	Date of meeting:	<b>November 16, 2012</b>
Campus-Wide Consultation (CWC)		Date approved:	<b>February 15, 2013</b>
Curriculum Committee chair:	<b>Tetsoumi Anzai</b>	Date approved:	
Dean/Associate VP:	<b>Jacqueline Nolte</b>	Date of meeting:	<b>April 26, 2013</b>
Undergraduate Education Committee (UEC) approval		Date of meeting:	

**LEARNING OUTCOMES:**

Upon successful completion of this course, students will be able to:

- Apply core geographic concepts to the study of and impact of planning techniques and climate change in the non-western world.
- Assess theories and historical approaches to planning and development in varied cultural contexts.
- Think innovatively about alternative planning and policy approaches to improve both processes and outcomes of communities.
- Explain and critique the economic, environmental, political, and cultural processes shaping and influencing sustainability of urban form in the non-western world.
- Critically appraise and apply conceptual, empirical, and methodological approaches to vulnerability assessment and climate adaptation planning.
- Think innovatively about alternative planning and policy approaches to improve both processes and outcomes of communities.
- Appreciate the need to understand local circumstances in transferring best practices across countries and cities.
- Apply skills essential for 'climate-proofing' development and planning initiatives in the international context.

**METHODS:** (Guest lecturers, presentations, online instruction, field trips, etc.)

This course includes critique and discussion of readings, international reports and relevant media related to the field of international planning and climate change. Course delivery consists of a combination of lectures by the instructor, seminar discussion, applied projects and the presentation of case studies by students. The course will be designed for an on-line or hybrid learning platform and will require mutual and collaborative learning.

**METHODS OF OBTAINING PRIOR LEARNING ASSESSMENT RECOGNITION (PLAR):**

- Examination(s)       Portfolio assessment       Interview(s)
- Other (specify):       PLAR cannot be awarded for this course for the following reason(s):

**TEXTBOOKS, REFERENCES, MATERIALS:** [Textbook selection varies by instructor. An example of texts might be:]

Alam, M., Golam Rabbani, M. D. 2007. *Vulnerabilities and Responses to Climate Change for Dhaka. Environment & Urbanization, Vol. 19: 81-97.* Arnold, D.G. (ed.), 2011. *The Ethics of Global Climate Change.* Cambridge University Press.

Baker, J., 2012. *Climate Change, disaster risk, and the urban poor: cities building resilience for a changing world.* World Bank.

Beriatos E. et al, ed. 2012. *Sustainable Planning and Development; New York: Routledge.*

Bicknell, 2009. *Adapting Cities to Climate Change: Understanding and addressing development challenges.* Earthscan.

Bulkeley, H.A., 2012. *Cities and Climate Change.* Routledge.

Campbell, Scott. 1996. *Green Cities, Growing cities, Just Cities?: Urban Planning and the Contradictions of Sustainable Development.* Association, Vol. 62. Iss. 3, 2.

Campbell-Lendrum, D., Corvalán, C. (2007): *Climate Change and Developing Countries: Implications for Environmental Health and Equity.* *Journal of Urban Health: Bulletin of the New York Academy of Medicine*, Vol. 84, Suppl. 1: 109-117. De Sherbinin, A., Schiller, A., Pulsipher, A. (2007): *The Vulnerability of Global Cities to Climate Hazards.* European Communities. 2006. *EU Action Against Climate Change: Helping Developing Countries to Cope with Climate Change.* Luxemburg: Office for Official Publications of the European Communities.

Graves, H. M., Philipson, M. C. 2000. *Potential Implications of Climate Change in the Built Environment.* Foundation for the Built Environment Report 2. Building Research Establishment, Watford, England.

Hunt, J. 2004. *How Can Cities Mitigate and Adapt to Climate Change?* *Building Research and Information*, Vol. 32, No. 1: 55-57.

Intergovernmental Panel on Climate Change (2007): *Climate Change 2007: Mitigation of Climate Change. Contribution of Working Group III to the Fourth Assessment Report.*

IRIN (UN Office for the Coordination of Humanitarian Affairs). 2007. *Kenya: Climate Change and Malaria in Nairobi.* <http://www.irinnews.org/PrintReport.aspx?ReportId=73501>.

Jackson, P. 2007. *From Stockholm to Kyoto: A Brief History of Climate Change.* *UN Chronicle*, Iss. 2 "Green Our World" <http://www.un.org/Pubs/chronicle/2007/issue2/0207p06.htm>.

Jenks, M., Dempsey, N. 2005. *Future Forms and Designs for Sustainable Cities.* Architectural Press. Oxford.

Kiehl, J.T. and V. Ramanathan, 2011. *Frontiers of Climate Modeling.* Cambridge University Press.

Lim. B. and E. Spanger-Siegfried, ed. . 2010. *Developing Strategies, Policies and Measure.* United Nations Development Programme, University Press, Cambridge, UK.

Lindley, S. J., Handley, J. F., Theuray, N., Peet, E., Mcevoy, D. 2006. *Adaptation Strategies for Climate Change in the Urban Environment: Assessing Climate Change Related Risk in UK Urban Areas.* *Journal of Risk Research*, Vol.9, No. 5: 543-568 (26).

Magadza, C. H. D. 2000. *Climate Change Impacts and Human Settlements in Africa: Prospects for Adaptation.* *Environmental Monitoring and Assessment*, Vol. 61, Nr. 1: 193-205.

*Textbooks, References, Materials continued:*

- McGranahan, G., Balk, D., Anderson, B. 2007. *The Rising Tide: Assessing the Risks of Climate Change and Human Settlements in Low Elevation Coastal Zones. Environment & Urbanization, Vol. 19: 17-37.*
- Mukheibir, P., Ziervogel, G. 2007. *Developing a Municipal Adaptation Plan (MAP) for Climate Change: The City of Cape Town. Environment & Urbanization, Vol. 19, No. 1: 143-158.*
- Roaf, S., Chrichton, D., Nicol, F. 2005. *Adapting Buildings and Cities for Climate Change: A 21st Century Survival Guide. Architectural Press, Elsevier.*
- Rosenzweig, C. W.D. Solecki, S.A. Hammer, and S. Mehrota, 2011. *Climate Change and Cities. Cambridge University Press.*
- Satterthwaite, D., Huq, S., Pelling, M., Reid, H, Romero-Lankao, P. 2005. *Building Climate Change Resilience in Urban Areas and among Urban Populations in Low- and Middle-income Nations. Draft prepared for the Rockefeller Foundation.*
- Schipper, L. and Mark Pelling. March 2006. *Disaster risk, climate change and international development: scope for and challenges, in change and Disasters – Special Issue, Vol. 30. Iss. 1 p 19-38.*
- United Nations 2004. *Application of Methods and Tools for Assessing Impacts and Vulnerability and Developing Adaptation Responses. A Background Paper for the United Nations Framework4 Convention on Climate Change. Buenos Aires.*
- Wheeler, S.M., 2012. *Climate Change and Social Ecology. Routledge*
- Wilson, E. and J. Piper. 2010. *Spatial Planning and Climate Change. Routledge.*
- World Bank. 2000. *Cities, Seas, and Storms: Managing Change in Pacific Island Economics. Volume IV: Adapting to climate Change. Papua New Guinea and Pacific Islands Country Unit. The World Bank: Washington, D.C.*

**SUPPLIES / MATERIALS:**

There may be fees associated with field work required for this course. Students will require access to internet and a computer that can view YouTube videos and other media sources.

**STUDENT EVALUATION:** [An example of student evaluation for this course might be:]

Self-Guided Field Trip Reports	20%
Seminar Participation	10%
Research Paper	30%
Applied Group Project	25%
Personal Planning Perspective	15%

**COURSE CONTENT:** [Course content varies by instructor. An example of course content might be:]

Lecture and seminar topics include:

Week 1: Planning in non-western context: reality in global world

Week 2: Planning and climate change: a primer

Week 3: Understanding vulnerabilities to climate change

Week 4: Decision analysis for mitigation of risks and hazards posed by climate change

Week 5: Administrative levels at which development and land use planning takes place

Week 6: Mid-term

Week 7: Ethic of climate change considering critical themes of gender, environmental justice and participatory practices

Week 8: Policy, internal actors in development, land use, decentralization, poverty, urban-rural linkages, and corruption all considered in relationship to planning

Week 9: Tools and strategies for mitigation; climate proofing development projects

Week 10: Link between planning power and legitimacy and impact on marginalized groups

Week 11: External actors and impact on settlement form; selected case studies

Week 12-13: Group presentations of applied planning and climate change projects

Week 14: Final