

Nikou, Roshan

From: Graduate.Council.Web.Site@www.uky.edu
Sent: Tuesday, April 18, 2006 8:04 AM
To: Nikou, Roshan
Cc: Lyons, Marilyn
Subject: Investigator Report

AnyForm User: www.uky.edu
AnyForm Document: <http://www.research.uky.edu/gc/GCInvestigatorReport.html>
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College/Department/Unit: = DIP 725
Category:_ = New
Date_for_Council_Review: =
Recommendation_is:_ = Approve
Consent_Agenda: = YES
Investigator: = Richard Milich
E-mail_Address = milich@uky.edu
1__Modifications: = None
2__Considerations: = Important course for students in the Patterson
diplomacy program
3__Contacts: = None
4__Additional_Information: =

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APPLICATION FOR NEW COURSE

0607-003

1. Submitted by College of The Graduate School Date 4/10/06

Department/Division offering course The Patterson School of Diplomacy and International Commerce

2. Proposed designation and Bulletin description of this course

a. Prefix and Number DIP 725 b. Title* Geopolitical Modeling

*NOTE: If the title is longer than 24 characters (including spaces), write
A sensible title (not exceeding 24 characters) for use on transcripts

c. Lecture/Discussion hours per week _____ d. Laboratory hours per week 1:0

e. Studio hours per week _____ f. Credits 3

g. Course description

Course uses large user friendly computer model of world's political/economic systems to explore topics such as globalization, development, energy security, and political instability from a theoretical and quantitative viewpoint.

h. Prerequisites (if any)

STA 570 (Basic Statistics Analysis) or permission of instructor

i. May be repeated to a maximum of _____ (if applicable)

4. To be cross-listed as

Prefix and Number _____ Signature, Chairman, cross-listing department _____

5. Effective Date Fall 2006 (semester and year)

6. Course to be offered Fall Spring Summer

7. Will the course be offered each year? Yes No
(Explain if not annually)

8. Why is this course needed?

This course is already being taught under a Graduate School Special Topics GS 600 ---. Desire to have this class as permanent status with Patterson School courses.

9. a. By whom will the course be taught? Dr. Evan Hillebrand

b. Are facilities for teaching the course now available? Yes No
If not, what plans have been made for providing them?

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APPLICATION FOR NEW COURSE

10. What enrollment may be reasonably anticipated? 25-30
11. Will this course serve students in the Department primarily? Yes No
Will it be of service to a significant number of students outside the Department? Yes No
If so, explain.
Students studying economics or political science may find this course useful.
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- Will the course serve as a University Studies Program course? Yes No
If yes, under what Area? _____
12. Check the category most applicable to this course
 traditional; offered in corresponding departments elsewhere;
 relatively new, now being widely established
 not yet to be found in many (or any) other universities
13. Is this course applicable to the requirements for at least one degree or certificate at the University of Kentucky? Yes No
14. Is this course part of a proposed new program: Yes No
If yes, which? _____
-
15. Will adding this course change the degree requirements in one or more programs? * Yes No
If yes, explain the change(s) below

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16. Attach a list of the major teaching objectives of the proposed course and outline and/or reference list to be used. *- see syllabus*
17. If the course is a 100-200 level course, please submit evidence (e.g., correspondence) that the Community College System has been consulted.
18. If the course is 400G or 500 level, include syllabi or course statement showing differentiation for undergraduate and graduate students in assignments, grading criteria, and grading scales.
19. Within the Department, who should be contacted for further information about the proposed course?
Name Dr. Evan Hillebrand Phone Extension 257-6928

*NOTE: Approval of this course will constitute approval of the program change unless other program modifications are proposed.

APPLICATION FOR NEW COURSE

Signatures of Approval:

Kan Mizut
Department Chair
Blackwell
Dean of the College

Apr. 10, 2006
Date
Sept 8, 2006
Date

Date of Notice to the Faculty

*Undergraduate Council

Date

Blackwell
*University Studies
*Graduate Council

Date
9/8/06
Date

*Academic Council for the Medical Center

Date

*Senate Council (Chair)

Date of Notice to University Senate

*If applicable, as provided by the Rules of the University Senate

ACTION OTHER THAN APPROVAL

Geopolitical Modeling

Fall 2005

Version: September 4, 2005

Evan Hillebrand
Patterson Tower 459
859/257-6928
EHill2@uky.edu

Meeting Time: WD 6:00-8:30
Meeting Place: Vandebosch Room
Offices Hours: WD: 1:00-4:00

This course uses a large, but user-friendly, computer model of the world's political and economic systems to explore a variety of policy and intelligence questions from a quantitative viewpoint. The emphasis will be on long-range, global issues. The course will explore how to frame issues analytically, how assumptions can affect policies, and how policies can affect outcomes. The course will review current quantitative research on key international relations topics such as globalization, development, instability, and war. The course will emphasize the use of the model and quantitative tools in general to produce real-world foreign policy analysis of potential use to consumers of intelligence and other policy makers.

The course is designed to be of particular use to future government analysts but it will also be helpful to those considering careers in policy-oriented non-governmental organizations (NGOs) or global business.

Format

The class will be taught primarily through sessions devoted to learning the use of the International Futures Model (IFS) with extensive discussion of the literature pertinent to the construction of the model and literature framing selected policy debates that the model is competent to address. It would be extremely helpful if each student brought a notebook computer to each class; the model software is free and will be distributed in class.

The first several weeks of the class will involve guidance on the use of the model and extensive homework practice sessions. The software supporting the model is easy—no one has to be a programmer to master it. But the model is complicated and if the student falls behind in the early instruction period it will be difficult to gain mastery.

As mastery with the model grows, the class meetings will focus on using the model to address important long-range policy issues of the sort that may come to the attention of a policy or intelligence analyst working at the national or international level.

Grading

Grading will be based on class participation and quizzes (25%), homework exercises (35%), and the final exam (40%). The final exam will probably be a take home exercise involving model simulation of a policy question with written analysis.

Classroom exercises must be turned in by the start of the class (but keep a copy because we might be going through or going beyond the exercise during class). Papers may be submitted electronically or in paper form, but it is the responsibility of each student to make sure I have a copy of his or her submission that I can read by the due date – that is, I must be able to open any attachment that you send. You may also place a paper copy of your assignment in my mailbox in the Patterson School office if you have it date-stamped by a Patterson School member. Late papers won't be accepted because we will be going over the exercises in class. But you might try to make up for lost credit by turning in—by the next class period--make-up papers that go beyond the homework assignment in interesting and creative ways.

Reading Assignments

The basic text is *International Futures*, fourth edition, by Barry Hughes and Evan Hillebrand. You also should acquire:

China's Futures, John Ogilvy, (Wiley and Sons, 2000)

UN: *Arab Human Development Report* (2004) hardback or for free at:

http://www.un-ngls.org/Arab_Human_Development_Report_2004_eng.pdf

Recommended but not required,

Global Political Economy, Robert Gilpin, (Princeton, 2001)

Inevitable Surprises, Peter Schwartz (Gotham Books, 2003)

The Eco-Economy, Lester Brown, for free at

http://www.earth-policy.org/Books/ECO_contents.htm

The Skeptical Environmentalist, Bjorn Lomborg (Cambridge, 2001)

Power and Prosperity, Mancur Olson (Basic Books, 2000)

The Elusive Quest for Growth, William Easterly (MIT Press, 2002)

If the readings are available from the Young Library Website I will indicate with the acronym YLE (Young Library Electronic). If the readings are available on the web I will list the URL. If the readings are from some channel you don't necessarily have access to I will either post an electronic copy to the "documents" section of the class Blackboard (BB) or place a hard copy in the student room (BOX). Note the readings are for the **next** class (e.g. the readings and exercise listed under Class 2 should be completed before class 3). (Reading assignments may vary somewhat from the syllabus as the class progresses.)

Make sure you have access to the Blackboard site for this class. Get in the habit of checking it every day or so.

Open-Door Policy

If my office door is open (and I'm not on the phone or talking to someone else) I am available for consultation.

Class 1 (8/24): Model Set Up Session

Download the model from <http://www.du.edu/~bhughes/ifs.html>

When you have the model running...

- Open the model software. Click on Help, Content, Introduction to Use..., How do I, Lesson 1 (Display Output). Go through this lesson, it will help you with exercise 1.
- Do exercise 1 (available on Blackboard) to hand in and discuss at Class 2.

Class 2 (8/31) Model Discussion

For Class 3:

Do Exercise 2.

Read:

Hughes: ch. 5

Paul Ehrlich—*The Population Explosion*, ch 1 (BOX)

Nicholas Eberstadt—“World Population Trends & National Security”, ch. 11 in
Eberstadt's *Tyranny of Numbers* (BOX)

Eberstadt—“What if it's a World Population Implosion”, ch 11 in Eberstadt's *Prosperous Paupers* (more on the social side) (BOX)

Lester R. Brown, *Eco-Economy*, Chapter 10

Ben Wattenberg, *Fewer: How the New Demography of Depopulation...*, Chapters 1-2 (BOX)

Browse: www.prb.org (Population Reference Bureau)

www.un.org/esa/population/unpop.htm

Class 3 (9/7): Population Modeling

For Class 4:

Do exercise 2a—the Excel Spreadsheet model

Do exercise 3

Read:

Hughes, ch. 6

IFs Help Files—Black Box-Economy-Equations-Gds and Svs-Production Function

Thomas Sowell, *Basic Economics*, ch. 4, “An Overview” (BOX)

Jack Hirshliefer, “Natural Economy vs. Political Economy”, in *Economic Behavior Under Adversity* (U. of Chicago Press, 1987) (BOX)

Lester Brown, ch. 1 from *Eco-Economy*, “The Economy and the Earth”

Richard Cooper, “A Half Century of Development”

http://siteresources.worldbank.org/INTABCDEWASHINGTON2004/Resources/Richard_Cooper_A_Half_Century_of_Devpt_formatted_final.pdf

Class 4 (9/14): Economic Modeling

For Class 5:

Do exercise 4—Explaining Growth

Read: Hughes, ch. 7

Lester Brown, “Feeding Everyone Well”, Ch. 7 from *The Eco-Economy*

Lester Brown, “China’s Shrinking Grain Harvest”, *The Globalist*, March 12, 2004

<http://www.theglobalist.com/StoryId.aspx?StoryId=3827>

Jere Behrman et al., “Hunger and Malnutrition”, ch. X in Bjorn Lomborg, *Copenhagen Consensus*, downloadable from

http://www.copenhagenconsensus.com/Files/Filer/CC/Papers/Hunger_and_Malnutrition_070504.pdf

Browse: www.fao.org and <http://www.unmillenniumproject.org/who/task02.htm>

Class 5 (9/21): Agriculture

For Class 6:

Do exercise 5—Agriculture and China

Read:

Hughes, ch. 8

World Energy Council, “Global Energy Scenarios to 2050 and Beyond”,

<http://www.worldenergy.org/wec-geis/edc/scenario.asp>

Meadows and Meadows, pp 66-78, in “Beyond the Limits” (BOX)

Julian Simon, “Forecasting the Long-Term Trend of Raw Material Availability”, from Simon, *Economics Against the Grain*, vol 2. (BOX)

Bjorn Lomborg, ch. 11, “Energy”, in the *Skeptical Environmentalist* (BOX)

The Economist Magazine, “A Brighter Future”, Feb 8, 2001 (YLE)

Class 6 (9/28): Energy

Do exercise 6

Read:

Hughes, ch. 9

Hughes, “Environmental Context and Constraints”, ch. 16 in *Continuity and Change in World Politics*, Prentice Hall 2000 (BOX)

Meadows and Meadows, pp 161-189, in *Beyond the Limits* (BOX)

Lomborg, ch. 1 in “Things are Getting Better”, in *The Skeptical Environmentalist*

BBC Interview: Richard Lindzen and Geoff Jenkins

http://www.open2.net/truthwillout/globalwarming/global_lindzen.htm

http://www.open2.net/truthwillout/globalwarming/global_jenkins.htm

Browse: www.earth-policy.org (Lester Brown’s site)

www.copenhagenconsensus.com (Lomborg’s site)

Class 7 (10/5): The Environment

Do Exercise 7: Global Warming

Read:

Hughes, ch 10

Ronald Inglehart and Wayne Baker, "Modernization, Cultural Change, and the Persistence of Traditional Values", *American Sociological Review*, 2000, vol. 65 (Feb:19-51) (YLE)

Larry Diamond, "Universal Democracy", *Policy Review*, Jun 2003 (YLE)

Fareed Zakaria, "The Rise of Illiberal Democracy", *Foreign Affairs*, June 1997, <http://www.foreignaffairs.org/19971101faessay3809/fareed-zakaria/the-rise-of-illiberal-democracy.html>

Jack Goldstone, "Its all about State Structure—New Findings on Revolutionary Origins From Global Data", (BOX)

Bruce Bueno de Mesquita, "The Political Roots of Poverty: The Economic Logic of Autocracy"; *National Interest*, summer, 2002 (YLE)

Browse: www.cicdm.umd.edu/inscr/polity

Class 8 (10/12): Domestic Social and Political Systems

Do exercise 8—State Failure

Read:

Hughes, ch. 11

Michael Mousseau, "Market Civilization and its Clash with Terror", *International Security*, 2002/2003 winter (YLE)

Eberstadt, "Power and Population in Asia", *Policy Review*, no 123, Feb 2004 (YLE)

Hughes, ch. 4 in *Continuity and Change*, "States and the Pursuit of Interest" (BOX)

Ronald Tamen et. al, ch 1 in *Power Transitions. "Power Transitions Theory"*

J. Kugler & Marina Arbetman, "Choosing Among Measures of Power: "A Review of the Empirical Record", ch 4 in *Power in World Politics* by Richard Stoll and Michael Ward (Lynne Reinner Publishers, 1989) (BOX)

Gregory Treverton and Seth Jones, "Measuring Power", *Harvard International Review*, Summer 2005 (YLE)

Class 9 (10/19): International Politics, Power, War

Do exercise 9—Power Calculations

Read:

Kugler and Tamen, "China: Satisfied or Dissatisfied", (BB).

Bruce Bueno de Mesquita and David Lalman, "Dyadic Power, Expectations, and War" ch. 10 in Stoll and Ward (BOX)

Niall Ferguson, "A World Without Power", *Foreign Policy*, July/August, 2004 (YLE)

Parag Khanna, "The Meterosexual Superpower", *Foreign Policy*, July/August, 2004 (YLE)

Class 10 (10/26): Power, continued

Do exercise 10—Power Transitions

John Caldwell, "Demographic Theory: A Long View", *Population and Development Review*, June 2004, pp 297-316 (YLE) or maybe just lecture from this?

Eberstadt, "Power and Population in Asia", *Policy Review*, Feb-March 2004. (YLE)

Ben Wattenberg, *Fewer: How the New Demography of Depopulation...*, Chapters 5-6
(BOX) I want some discussion of Japan and Western Europe

Class 11 (11/2): Demographics (again, but integrated this time)

Do exercise 12—Population Projections

Read:

William Easterly, *The Elusive Quest for Growth*, ch. 1-2 (BOX)

Mancur Olson, *Power and Prosperity*, ch 10. (BOX)

OECD, *The Future of the Global Economy*, ch. 1 and 6 (BOX)

Meadows and Meadows, "The Dynamics of Growth in a Finite World", ch. 3 from *Limits to Growth* (Chelsea Green, 2004) (BOX)

Evan Hillebrand, *The Global Economy in the Long Run*, CIA, 2002 (BOX)

Class 12 (11/9): Economics (again, but integrated this time)

Do exercise 13—Growth Dynamics

Read:

Robert Keohan and Joseph Nye, "Globalization: What's New? What's Not? (And So What?). *Foreign Policy*, Spring 2000, pp 104-119. (YLE)

The Economist Magazine, "Globalization and its Critics, Sept 27, 2001 (YLE)

Amy Chuan, "A World on the Edge", *Wilson Quarterly*, Autumn 2002 (YLE)

Meadows and Meadows, "More People, More Poverty, More People", from *Limits to Growth* (2004) (BOX)

World Bank, *Globalization, Growth, and Poverty*, Ch 1,

[http://www-](http://www-wds.worldbank.org/servlet/WDSContentServer/WDSP/IB/2002/02/16/000094946_0202020411335/Rendered/PDF/multi0page.pdf)

[wds.worldbank.org/servlet/WDSContentServer/WDSP/IB/2002/02/16/000094946_0202020411335/Rendered/PDF/multi0page.pdf](http://www-wds.worldbank.org/servlet/WDSContentServer/WDSP/IB/2002/02/16/000094946_0202020411335/Rendered/PDF/multi0page.pdf)

Evan Hillebrand, "The Global Distribution of Income in 2050", (BOX)

Class 13 (11/16): Globalization

Do exercise 14—Globalization or China Team

Read:

Robert Sutter, "Why Does China Matter?", *Washington Quarterly*, Winter 2003-4, pp 75-87 (YLE)

Charles Wolf, Ch. 1, in *Fault Lines in China's Economic Terrain*, "Potential Adversities Confronting China's Continued Economic Growth" (BOX)

James Ogilvey and Peter Schwarz, *China's Futures*, Jossey-Bass 2000

Ming Li, "The Rise of China and the Demise of the Capitalist World Economy", *Science and Society*, 69-3, July 2005, pp 420-448. (YLE)

Class 14 (11/23): China

Read:

Hughes, ch. 12

Peter Schwartz, *Inevitable Surprises*, ch 1-3 (BOX)
National Intelligence Council, *Mapping the Global Future*,
http://www.cia.gov/nic/NIC_2020_project.html (intro. to project)
http://www.cia.gov/nic/PDF_GIF_2020_Support/2020.pdf (full report)

Class 15 (11/30): Integrated Scenarios

Read:

J. Bradford DeLong, “Dealing with the Islamic Reformation”

http://www.j-bradford-delong.net/TotW/Islamic_reformation.html

UN-Arab Human Development Report (2004)

Browse reaction interviews on Al Jazeera:

<http://english.aljazeera.net/NR/exeres/8A0F4D05-A9B1-4556-89A9-6F3175A2253B.htm>

Mark Levine, “The AHDR, a Critique”

<http://www.merip.org/mero/mero072602.html>

or, for more detail

Mark Levine, “Globalization in the Middle East and North Africa”

http://www.iue.it/RSCAS/WP-Texts/02_70.pdf

Class 16 (12/7): The Middle East

Handout take-home final—tentative