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Bio 2011

## Global Environmental Change and Emerging Issues in Human Health

### Course Leaders:

Joshua Rosenthal, Fogarty International Center, National Institutes of Health, USA

Ricardo E. Gürtler, Depto. de Ecología, Facultad de Ciencias Exactas, Universidad de Buenos Aires, Argentina

**March 9 through May 18, 2011**

**University of Buenos Aires, Facultad de Ciencias Exactas y Naturales, Departamento de Ecología, Genética y Evolución.**

We will lead a graduate seminar in science policy focused on principles of ecosystem health with an emphasis on the major environmental changes occurring around the planet. Through short lectures and student-led discussions of selected background readings and international case studies, we will examine the known or probable effects of anthropogenic environmental changes on human health. Students will develop conceptual understanding of the major issues, state of the science, knowledge gaps and study approaches for solution-based management of ecosystem-based health concerns.

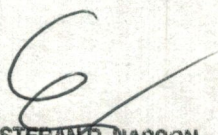
The overall objective of the course is to help graduate students in Ecology, Public Health, Agronomy, Environmental Engineering or other fields understand their graduate research and future professional careers in a broader context of environment, development and global health. We expect that students will begin thinking about how these enormous and complex topics interact with one another in a rapidly changing world and integrate this understanding in their subsequent research, teaching or management careers.

Topics covered will include basic epidemiological and ecological measures of health and environmental quality followed by analyses of the dynamics of climate change, biodiversity loss, air and water pollution and their direct and indirect effects on human well-being including implications for infectious diseases, respiratory diseases, cancers, toxicity, and nutrition, at local and global scales. We will conclude the course with a discussion of ways to apply various scenarios of future economic development and ecosystem health to Argentina.

Course readings will draw from multiple texts including:

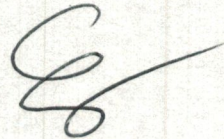
- Environmental Health, from Global to Local. 2010 H. Frumkin (ed) 2<sup>nd</sup> Edition, Jossey Bass (Wiley) San Francisco. 1221 p.
- Millenium Ecosystem Assessment: Human Health Synthesis Reports. 2005. Carlos Corvalan, Simon Hales, Anthony McMichael. World Health Organization. Geneva.
- Sustaining Life: How Human Health Depends on Biodiversity, editors Eric Chivian and Aaron Bernstein, Oxford University Press, 2008.

and a diversity of primary and review literature reports.

  
DR. ESTEBAN R. MASSON  
DIRECTOR  
DEPTO. ECOLOGIA GENETICA Y EVOLUCION  
FCEN-UBA

Students who are admitted to the class will be advanced graduate students from relevant fields with excellent English reading comprehension skills. Classes will be mostly led in Spanish. Priority will be given to graduate students enrolled in studies leading to a doctorate degree at UBA. All students are required to come to at least 8 of the 9 weekly three-hour meetings (no class the week of Semana Santa) with rare and well-justified exceptions. Each student will lead one 45-minute discussion of selected readings on a topic, develop a relevant research grant proposal, and participate in peer review of the proposals by your colleagues. Course approval will be based on these three tasks.

Applicants should send a short resumé and a one-page description of their current work and interests by March 3 to the following email addresses: [gurtler@ege.fcen.uba.ar](mailto:gurtler@ege.fcen.uba.ar), [joshua.rosenthal@nih.gov](mailto:joshua.rosenthal@nih.gov).



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Universidad de Buenos Aires  
Facultad de Ciencias Exactas y Naturales

Referencia Expte. N° 499.282/2011

Buenos Aires, 28 MAR 2011

**VISTO**

la nota del Dr. Esteban Hasson Director del Departamento de Ecología, Genética y Evolución, mediante la cual eleva la información y el programa del curso de posgrado **CAMBIO AMBIENTAL GLOBAL Y TEMAS EMERGENTES EN SALUD HUMANA**, que será dictado en el primer cuatrimestre de 2011 (09/03/2011 al 18/05/2011), por el Dr. Joshua P. Rosenthal (Fogarty International Center, National Institutes of Health USA) y el Dr. Ricardo Güntler,

el CV de Joshua P. Rosenthal

**CONSIDERANDO:**

lo actuado por la Comisión de Doctorado el 09/03/2011,  
lo actuado por la Comisión de Enseñanza, Programas, Planes de Estudio y Posgrado,  
lo actuado en la Comisión de Presupuesto y Administración,  
lo actuado por este cuerpo en Sesión Ordinaria realizada en el día de la fecha,  
en uso de las atribuciones que le confiere el Artículo N° 13° del Estatuto Universitario,

EL CONSEJO DIRECTIVO DE LA FACULTAD DE  
CIENCIAS EXACTAS Y NATURALES  
**RESUELVE:**

**Artículo 1°:** Autorizar el dictado del curso de posgrado **CAMBIO AMBIENTAL GLOBAL Y TEMAS EMERGENTES EN SALUD HUMANA**, de 50 hs. de duración.

**Artículo 2°:** Aprobar el programa del curso de posgrado **CAMBIO AMBIENTAL GLOBAL Y TEMAS EMERGENTES EN SALUD HUMANA**, obrante a fs 6 y 7 del expediente de la referencia.

**Artículo 3°:** Aprobar un puntaje máximo de dos (2) puntos para la Carrera de Doctorado.

**Artículo 4°:** Aprobar un arancel de 200 módulos. Disponer que los montos recaudados serán utilizados conforme a lo dispuesto por Resolución CD N° 072/03.

**Artículo 5°:** Comuníquese a la Dirección del Departamento de Ecología, Genética y Evolución, a la Biblioteca de la FCEN y a la Subsecretaría de Posgrado (con fotocopia del programa incluido: fs 6 Y 7); comuníquese a la Dirección de Alumnos (sin fotocopia del Programa). Cumplido archívese.

Resolución CD N° \_\_\_\_\_  
SP/med/09/03/2011

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Dr. MATILDE RUSTICUCCI  
SECRETARIA ACADEMICA

Dr. JORGE ALIAGA  
DECANO