ANT 261: Science, Policy, and Society Spring 2013: Monday, Wednesday, Friday 9:30 - 10:20 am, Chambers 1027

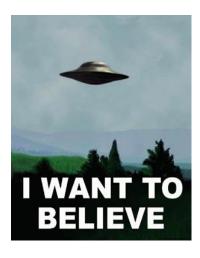
Prof. Eriberto P. Lozada Jr.

Office: Chambers B12

Telephone: 704-894-2035

Office Hours: M, W, F 10:30 – 11:30 am
T, Th 9:00 – 10: 00 am or by appointment
Email: erlozada@davidson.edu

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How do scientific theories and methodologies, religious beliefs and practices, and technological innovations affect the way we perceive the world around us? This course, an introduction to Science, Technology and Society (STS) studies, is designed to be an inquiry into questions that involve the production and cultural meanings of scientific knowledge and technological change. This course will compare the function and rhetoric of scientific "truths" to other modes of truth-production and consider the ways in which science is culturally produced and in turn reproductive of cultural norms in Western society, including the adoption of Western scientific practices and institutions by non-Western societies and the management of science and technology in social and economic practices.

The impact of the specificity of social and cultural environments on science will be explored at a number of different levels including theoretical models from STS and other disciplines, ethnographic and historical case studies, and reflections by scientists on their practices of science. Because it lies at the intersection of science and policy, most of the case studies draw from environmental studies.

Course Readings

Required Texts:

Biagioli, Mario ed. 1999. *The Science Studies Reader* New York: Routledge. (ISBN: 0415918685)

Tambiah, Stanley J 1990. *Magic, Science, Religion, and the Scope of Rationality* New York: Cambridge University Press. (ISBN: 0521376319)

Edwards, Paul N. 2010. A Vast Machine: Computer Models, Climate Data, and the Politics of Global Warming. Cambridge: MIT Press. (ISBN: 0262013924)

Helmreich, Stefan 2009. *Alien Ocean: Anthropological Voyages in Microbial Seas*. Berkeley: University of California Press. (ISBN: 0520250621)

Schurman, Rachel and William Munro 2010. Fighting for the Future of Food: Activists versus Agribusiness in the Struggle over Biotechnology. (ISBN: 0816647623)

In addition to the above books, various articles will be required. These articles are available from Blackboard, and are to be completed by the date assigned on the course schedule.

Instructor: Lozada

Course Requirements

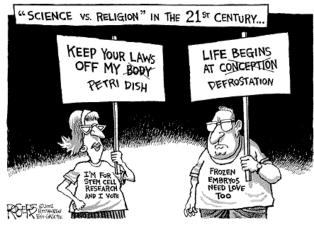
This course is not an introduction to anthropology, and students are expected to have some background in science, anthropology or social theory and methodology.

Class Participation: 15%

The most important work in this course is to be prepared for each class; this means having thoroughly read the material and being prepared to discuss particular points from the reading. Readings are due on the day listed in the class schedule. I am not a TV; discussions in class are an important part of exploring anthropological topics. Remember, there is no such thing as a dumb question or comment – if you do not understand something that I present in class, do not hesitate to either ask me in class or find me during office hours.

5 Response Papers: 10%

You will write five (5) response papers throughout the term, no more than two pages and double-spaced. They will be graded ($\sqrt{+}$, $\sqrt{-}$) and require timely submission for full credit. Response papers will serve as a diagnostic for me to help me see how much you understand the reading and the concepts that we will discuss in class.



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1 Review Essay (take-home): 20%

There will also be one short essay (no more

than five pages) that will give students the opportunity to explore the theoretical and social implications of the classroom material. For these essays, no outside research is required. The essay will be due 11 February 2013.

Final Research Project (proposal and final paper): 55%

There will also be a final research essay (12-15 pages) based on a topic that students will select. This essay may include outside research, library or fieldwork based. Students will submit a proposal and bibliography (worth 10% of the grade) on 18 February 2013 and a literature review (worth 15% of the grade) on 18 March 2013. The final essay, **due 8 May 2013**, is worth 30% of the final grade.

Submission of Writing Assignments: All assignments must be submitted to me electronically by email. If you are not using Microsoft Word, please save the file as in "rich text format." If you have any questions about how to submit assignments, please see me individually.

For an explanation of how I grade and my teaching philosophies, please read the material on my website in the "Teaching Philosophy" section.

While students working with each other outside of class is highly encouraged, all graded, written work must be your own and pledged accordingly. All work is subject to the Davidson College

Instructor: Lozada

Honor Code as stated in the student handbook. If there are individual accommodations for special needs, please let me know and authorize the Dean of Students to contact me so that we can work something out.

Class Schedule (subject to modification)

11 February	Monday,	Introduction
The Precautionary Principle in Environmental Science article (on Moodle) Friday, 18 January Monday, 21 January Wednesday, 25 January Monday, 25 January Monday, 26 January Monday, 27 January Monday, 28 January Monday, 29 January Monday, 29 January Monday, 29 January Monday, 20 January Monday, 20 January Monday, 21 January Monday, 22 January Monday, 23 January Monday, 24 Reading: Bourdieu article (Science Studies) Assignment: Response Paper Due Monday, 26 January Monday, 27 January Monday, 28 January Monday, 29 January Monday, 20 January Monday, 20 January Monday, 21 January Monday, 21 January Monday, 22 January Monday, 23 January Monday, 24 Reading: Tambiah, p. 1-41 Medinesday, 25 January Monday, 30 January Monday, 31 February Monday, 32 January Monday, 33 January Monday, 34 Reading: Daston article (Science Studies); Latour article (Science Studies) Monday, 35 January Monday, 36 January Monday, 37 January Monday, 38 Reading: Daston article (Science Studies); Latour article (Science Studies) Monday, 48 Reading: Porter essay (Science Studies); Rotman essay (Science Studies) Monday, 48 Reading: Daston article (Blackboard); Latour article (Ch. 18) Reading: Porter essay (Science Studies); Rotman essay (Science Studies) Monday, 48 Reading: Edwards, Introduction, Ch. 1 Reading: Edwards, Ch. 2-3 Reading: Edwards, Ch. 4-6 Assignment: Research Paper Proposal Due Mednesday, 48 Reading: Edwards, Ch. 4-6 Assignment: Research Paper Proposal Due Mednesday, 48 Reading: Edwards, Ch. 9-10 Reading: Edwards, Ch. 11-12 Assignment: Response Paper Due Wednesday, 48 Reading: Edwards, Ch. 11-12 Assignment: Response Paper Due Wednesday, 48 Reading: Edwards, Ch. 13-14	14 January	
Reading: Gould article; Barbour article (on Moodle)	Wednesday,	Reading : Ch 1, Ch 3, Using Science as Evidence in Public Policy
Monday, 23 January Reading: Franklin article (Moodle) Reading: Franklin article (Science Studies) Assignment: Response Paper Due Monday, 28 January Reading: Tambiah, p. 1-41 Wednesday, 30 January Friday, 4 February Monday, 4 February Wednesday, 6 Febrary Friday, 8 February Monday, 11 February Monday, 12 February Monday, 13 February Monday, 15 February Monday, 16 February Monday, 17 February Monday, 18 February Monday, 19 February Monday, 19 February Monday, 10 February Monday, 10 February Monday, 11 February Mednesday, 11 February Mednesday, 12 February Reading: Edwards, Introduction, Ch. 1 Reading: Edwards, Ch. 4-6 Assignment: Research Paper Proposal Due Mednesday, 20 February Friday, 20 February Friday, 21 February Reading: Edwards, Ch. 7-8 Reading: Edwards, Ch. 11-12 Assignment: Response Paper Due Reading: Edwards, Ch. 11-12 Assignment: Response Paper Due Reading: Edwards, Ch. 13-14	16 January	The Precautionary Principle in Environmental Science article (on Moodle)
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Wednesday, Reading: Edwards, Ch. 13-14	•	
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27 February	27 February	

Friday,	Reading: Edwards, Ch 15-Conclusion
1 March	reduing. Editards, on 15 Conclusion
4 -8 March	No Class: Have a good Spring Break!
. 0 1/10/2011	The class liant a good spring from:
Monday,	More from Science, Technology, and Society
11 March	Reading : Kay article (Science Studies)
Wednesday,	Reading: Rabinow article (Science Studies)
13 March	Assignment: Response Paper Due
Friday,	Reading: Rouse article (Science Studies)
15 March	
Monday,	Reading: Turkle article (Science Studies)
18 March	Assignment: Literature Review Due
Wednesday,	Reading : Fox Keller article; Haraway article (Science Studies)
20 March	
Friday,	Reading: Traweek article (Science Studies)
22 March	2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
Monday,	Reading : Martin article (Science Studies); Barad article (Science Studies)
25 March	
Wednesday,	Reading: Callon article (Science Studies); Silverman article (Moodle)
27 March	Backstrand article (Moodle)
Friday,	Case Study 2: Making Science
29 March	Reading : Helmreich, Introduction – Ch. 1
Monday,	No Class: Easter Break
1 April	
Wednesday,	Reading : Helmreich, Ch. 2-3
3 April	
Friday,	Reading: Helmreich, Ch. 4-5
5 April	Assignment: Response Paper Due
Monday,	Reading : Helmreich, Ch. 6-7
8 April	
Wednesday,	Film: Contact (1997)
10 April	
Friday,	Film: Contact (1997)
12 April	
Monday,	Film: Contact (1997)
15 April	
Wednesday,	Reading: Whitehead essay (Moodle); McGrath essay (Moodle)
17 April	
Friday,	Reading: Selections from Star Trek and Sacred Ground (Moodle)
19 April	
Monday,	Discussion: Science and Popular Culture
22 April	

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Wednesday,	Case Study 3: Science, Industry, and Activists
24 April	Reading: Clapp article (Moodle); Schurman and Munro, Introduction and
	Chapter 1
Friday,	Reading : Schurman and Munro, Chapter 2-3
26 April	
Monday,	Reading : Schurman and Munro, Chapter 4-5
29 April	Assignment: Response Paper Due
Wednesday,	Reading: Schurman and Munro, Chapter 6, Conclusion
1 May	
Friday,	Last Day of Class
3 May	
Wednesday,	Assignment: Final Papers Due
8 May	

