

COURSE OUTLINE

PUBP 4214 – GENDER, SCIENCE, TECHNOLOGY, AND PUBLIC POLICY

Introductory Statement:

The roles in society played by science and technology are more important than ever before. The purpose of this course is to explore the bi-directional relationship between science and technology policy on the one hand, and gender on the other. Among the questions to be discussed are: What role does the US government play in science and technology? What should the US role be? Does it matter who are the practitioners of science and technology? If it does matter, how and in what ways does it matter? This exploration will be based on material from various literatures—sociology, science technology studies, social studies of science, etc.

Course format and requirements

The course will be conducted as a seminar (although there will be brief presentations to establish a common universe of discourse). Participation constitutes an important component of the grade; therefore, students are expected to be prepared to discuss the material assigned for each class meeting. Class attendance is a prerequisite to—not the same thing as—participation. In order to pass the course, ALL of the following requirements MUST be met:

- Class participation
- Leading class discussion
- Written term paper prospectus
- Oral presentation on term paper prospectus (@ 5 minutes in length)
- Term paper
- Oral presentation on term paper (@20 minutes in length)

Detailed information on both the content and form of the prospectus and term paper will be distributed in class.

Kournay, Janet A. (2002). The Gender of Science. Upper Saddle River, NJ: Prentice-Hall

Laurence, Leslie and Beth Weinhouse (1995). Outrageous Practices. New York: Fawcett/Columbine.

Lederman, Muriel and Ingrid Bartsch (2001). The Gender and Science Reader. London: Routledge

Margolis, Jane and Allan Fisher (2002) Unlocking the clubhouse: women in computing. Cambridge and London: MIT Press

Etkowitz, Henry et al (2000). Athena Unbound: The Advancement of Women in Science and Technology.

Cambridge: Cambridge University Press

Valian, Virginia (1999) Why so slow? The Advancement of Women.

Cambridge & London: MIT Press

Wyer, Mary et al., editors (2001). Women, Science and Technology. London: Routledge

COURSE CALENDAR

Feb. 6

African Americans in Science & Engineering

Feb. 8 & 13

Leggon, Cheryl B., and Willie Pearson (1994). "Who Will do Science? Implications for Indigenous Minorities," in Robert Val and Letitia Mayer, eds.
Quintana-Baker, Maricel (2002). "A Profile of Mexican American, Puerto Rican, and Other Hispanic STEM Doctorates: 1983-1997," *Journal of Women and Minorities in Science and Engineering*, vol. 8, pp. 99-121.

Feb. 15

Term paper prospectus due (submit electronically by the start of class)

In-class short oral presentations

Sign up for leading discussions

Feb. 20 & 22

Pearson, Jr., Willie (1985). "On being black, female, and scientist," in Black scientists, white society, and colorless science: a study of universalism in American science. Millwood, NY: Associated Faculty Press, Inc., pp. 137-161.
Leggon, Cheryl B. (2006) "Women in Science: Differences and the Differences They Make," in *Journal of Technology Transfer*. Copies will be distributed.
Harding, Sandra "Women of Third World Descent in the Sciences," in The Gender of Science (2002), edited by Janet A. Kournay, Upper Saddle River, NJ: Prentice Hall, pp. 34-39

The Gender of Science (2002), by Janet A. Kournay, Upper Saddle River, NJ: Prentice Hall

Gornick, Vivian "Women in Science: Half In, Half Out," pp. 39-59

Angier, Natalie, "Women Join the Ranks of Science but Remain Invisible at the Top, pp. 75-78.

Goldberg, Phyllis, "Creeping Toward Inclusivity in Science," pp. 79-85.

Feb. 27

Gender and Paradigms of Science

Feminist Approaches to Science, Ruth Bleier, editor, pp. 18-41.

Keller, Evelyn Fox (1991). "The Wo/Man scientist: issues of sex and gender in the pursuit of science," in Harriet Zuckerman et. al., editors, The Outer Circle: Women in the Scientific Community. New Haven: Yale University Press, ch. 10: 254-273
March 1

Women, Science and Technology, Mary Weyer et. al., editors, New York & London: Routledge 2001

Keller, Evelyn Fox. "Gender and Science: an update," pp. 132-142

Hubbard, Ruth. "Science, facts, and feminism," pp. 153-160

Longino, Helen. "Can there be a feminist science?" pp. 216-223

Biomedical Sciences

March 6

Birke, Lydia, "In pursuit of difference: scientific studies of women and men," in The Gender and Science Reader, (2001) Muriel Lederman and Ingrid Bartsch eds., London and New York: Routledge

Kaplan, Gisela and Lesley J. Rogers, "Race and Gender Fallacies: the paucity of biological determinist explanations" in The Gender and Science Reader, (2001) Muriel Lederman and Ingrid Bartsch eds., London and New York: Routledge, pp. 323-342
March 8

Rosser, Sue. "Androcentric Bias in Clinical Research." In The Gender of Science (2002), Janet A. Kourmay, ed., Upper Saddle River: Prentice Hall, pp. 228-236

Krieger, Nancy and Elizabeth Fee, "Man-made medicine and women's health: the biopolitics of sex/gender and race/ethnicity," In The Gender of Science (2002), Janet A. Kourmay, ed., Upper Saddle River: Prentice Hall, pp. 237-249

March 13 & 15

Laurence, Leslie and Beth Weinhouse (1995). Outrageous Practices. New York: Fawcett/Columbine, Part I: pp. 11-82

Sign up for final oral presentations

Mar 27 Gender, Science, and Reproductive Technology

Hubbard, Ruth, "The New Procreative Technologies," The Gender of Science (2002), by Janet A. Kourmay, Upper Saddle River, NJ: Prentice Hall, pp. 250-266
Mies, Maria. "New Reproductive Technologies: Racist and Sexist Implications." <http://www.hsph.harvard.edu/rt21/race/Mies.htm>

Lopez, Iris. "Agency and Constraint: Sterilization and Reproductive Freedom Among Puerto Rican Women in New York City." <http://www.hsph.harvard.edu/grhf/WoC/reproductive/lopez.html>

Gender, Information Technology/Computer Science and Policy

April 3&5 Margolis, Jane and Allan Fisher (2002). Unlocking the Clubhouse: Women in Computing. Cambridge and London: MIT Press.

Leggon, C.B. "Women of Color in IT: Degree Trends and Policy Implications," IEEE Technology and Society, Fall 2003:36-42.

Apr 17

Final Oral Presentations

Apr 19

Final Oral Presentations

Apr 24 & 26

Etkowitz, Henry et al. (2000) Athena Unbound: The Advancement of Women in Science and Technology. Cambridge: Cambridge University Press