

SOC 190.6
Mondays, 12:00-2:00pm
106 Wheeler Hall

Science, Technology, and Global Health

Fall 2019

Prof. Yan Long
Office: 448 Barrows
Office Hours: 3:45-5:45pm, Monday
Signup sheet: <https://www.wejoinin.com/sheets/vmagm>
Email: **inbox on bCourses**

COURSE OVERVIEW

Can we innovate our way out of global health challenges? Science and technology are at the center of the economic, political, and sociocultural changes that are reshaping our global world of health and medicine. This course explores the intersection of science, technology and health with a special emphasis on globalization. We will focus on 1) how the evolving world order mediates the production of scientific knowledge and the deployment of new biotechnologies; 2) how techno-scientific developments shape institutional structures, regulatory instruments, citizenship, and individual identity-making around population health beyond nation states; 3) how medical sciences and technologies have been transferred between geographic, political, cultural and environmental context around the globe; and 4) in what ways these processes sustain and change our concepts of life, death, nature and globe.

READING ACCESS

You may gain access to all of the readings through bCourse. *Readings will be added/changed as the semester progresses* based on students' feedbacks, and they will be announced in advance.

COURSE REQUIREMENTS

- **Participation (20%)**

Attending all seminars is mandatory. Participation includes attendance, thoughtfully contributing to class discussions, and asking pertinent questions. Absences will only be excused for unavoidable reasons, such as health and family emergencies. In general, supporting documentation and prior notification, along with a clear explanation, is needed for excused absences.

- **Reading Memos (25%)**

Every week you will post a reading memo (200-250 words) on the week's readings on bCourse. They are due on 5 pm on Sunday before class. Each memo should (1) summarize the main

arguments of the readings for the week; and (2) evaluate those arguments, and/or compare and contrast the readings with readings in other weeks.

No late response is accepted. I will not grade your individual response. But you can expect me to call on you occasionally in class to share what you write.

- **Leading Discussion (10%)**

You will work with another student to lead one class discussion this semester. Discussion leaders will read the readings very carefully, then come up with discussion questions for our class together. As discussion leaders, you will be exempted from submitting reading memo of that week. Instead, you will send those discussion questions to me through bCourse on Sunday by 5pm.

- **Research Paper (45%)**

The final paper is a review essay to take on a single question of your choice based on the existing literature. This 15-20 page (12 point font, double-spaced, 1 inch margins) paper should not only summarize and critically evaluate the state of the literature, but also suggest further research directions you would like to see. The assignment is divided into four components.

- (1) Pick a paper topic (5%): Submit one paragraph describing your proposed topic and research question on bCourse.
- (2) Draft paper outline (5%): Submit a 3-4 page outline of your paper on bCourse that illustrate the problem or issue you are going to study, explain why it is important, list the explanation for it that you plan to explore, and include a list of readings you intend to use inside and outside the syllabus. I will meet with you to discuss the outline and provide feedback.
- (3) Paper presentation (5%): You will present the draft of your paper in the last class for feedback and comments.
- (4) Final paper (30%): This version should incorporate comments on the previous three stages.

Requirement	Date
Participation	Each Week
Reading memo	9 submissions, Sunday at 5 pm
Leading discussion	Once, discussion questions due on Sunday at 5 pm
Pick a paper topic	Oct 7
Draft paper outline	Nov 4
Paper presentation	Dec 2
Final paper	Dec 16

COURSE POLICIES

- **Technology**

You may use laptops or tablets, but not telephones (outside of emergencies), in class. As an adult, I trust you will use technology respectfully, i.e. only for things related to class while in class. I prefer you have the readings on paper.

- **Communication**

Inbox on bCourse only. Please do your best to limit e-mails to administrative questions, and check the syllabus and my instructions to the class before e-mailing me. Save substantive questions for office hours.

OTHER RESOURCES

Throughout the semester you might find some of these offices quite helpful with a variety of academic and non-academic issues:

Student Learning Center (SLC) located in the Cesar Chavez Student Center offers academic support by assisting students through tutoring, study groups, workshops and courses. You might want to check this out for free spell check, copy-editing and writing tips.

Multicultural Education Program has a number of activities, offers academic consultation and diversity workshops. Similarly, the *Berkeley International Office*, located on 2299 Piedmont Ave in iHouse, provides expert advising, immigration services, advocacy and programming. They have student advisors on a daily basis.

Counseling and Psychological Services/ University Health Services, Tang Center at 2222 Bancroft Way, (510) 642-9494 (After Hours, call 643-7197) for all things mind and body.

Gender Equity Resource Center (GenEq) is a UC Berkeley community center where students, faculty, staff and alumni connect for resources, services, education and leadership programs related to gender and sexuality.

Social Services is located in Room 2280 in the Tang Center and provides confidential services and counseling to help students with managing problems that can emerge from illness or life things. Such as financial, academic, legal, and family concerns. They specialize in helping students with pregnancy resources and referrals; alcohol/drug problems related to one's own or a family member's use; sexual assault/rape; relationship or other violence; and support for health concerns-new diagnoses or ongoing conditions.

WEEKLY READINGS

Week 1 (Sep 9)

Introduction

Week 2 (Sep 16)

General Theories (1): Global Health and the Politics of Knowledge

- Greene, Jeremy. 2013. "Chapter 3 Colonial Medicine and its Legacies," pp. 33-73 in *Reimagining Global Health: An Introduction*. University of California Press.
- Ferguson, James. 2006. "The Anti-Politics Machine," pp. 270-296 in Sharma and Gupta, *The*

Week 3 (Sep 23):

General Theories (2): Science as a Doctrine

- Pinch, Trevor, and Wiebe Bijer. 1984. "The Social Construction of Facts and Artefacts: or How the Sociology of Science and the Sociology of Technology might Benefit Each Other." *Social Studies of Science* 14: 399-441.
- Murphy, Michelle. 2017. "Economy as Atmosphere," pp. 17-34 in *The Economization of Life*. Duke University Press.

Week 4 (Sep 30):

General Theories (3): Biopolitics and Technologies of Self

- Foucault, Michel. 1984. *The History of Sexuality: Vol. 1*, pp. 57-73, 115-127. Random House: NY.

Week 5 (Oct 7):

General Theories (4): Numbers and Quantification

- Porter, Theodore. 1996. Chapters 7-8 in *Trust in Numbers: The Pursuit of Objectivity in Science and Human Life*. Princeton University Press.

Week 6 (Oct 14):

Social Lives of Medicine (1): Categorization

- Merry, Sally. 2016. "Measuring the Unmeasurable: The US Trafficking in Persons Reports," pp. 112-39 in *The Seductions of Quantification: Measuring Human Rights, Gender Violence, and Sex Trafficking*. The University of Chicago Press.
- Navon, D., and Eyal, G. 2016. "Looping genomes: Diagnostic change and the genetic makeup of the autism population." *American Journal of Sociology* 121(5): 1416-1471.

Week 7 (Oct 21):

Social Lives of Medicine (2): Laboratory

- Petryna, Adriana. 2007. "Clinical Trails Offshored: On Private Sector Science and Public Health." *BioSocieties* 2: 21-40.
- Crane, Johanna. 2011. "Viral Cartographies: Mapping the Molecular Politics of Global HIV." *BioSocieties* 2: 142-66.

Week 8 (Oct 28):

Social Lives of Medicine (3): Experiments

- Deaton, Angus. 2010. "Instruments, Randomization, and Learning about Development." *Journal of Economic Literature* 48 (June): 424-455.
- Biruk, Crystal. 2018. Introduction, pp. 1-30 in *Cooking Data: Culture and Politics in an African Research World*. Duke University Press.

Week 9 (Nov 4):

Biomedical Encounters (1): Data Collection Collaboration

- Okwaro, F. and Geissler, P. 2015. "In/dependent collaborations: perceptions and experiences of African scientists in transnational HIV research." *Medical Anthropology Quarterly*: 1-20.
- Crane, J. 2010. "Adverse events and placebo effects: African scientists, HIV, and ethics in the

“global health sciences.” *Social Studies of Science* 40 (6): 843-870.

Academic Holiday (Nov 11)

Week 10 (Nov 18):

Biomedical Encounters (2): Biological Citizenship

- Nguyen, Vinh-Kim 2005. “Antiretroviral Globalism, Biopolitics, and Therapeutic Citizenship,” pp. 124-44 in A. Ong & S. Collier (Eds.), *Global assemblages: Technology, Politics, and Ethics as Anthropological Problems*. US: Blackwell Publishing.
- Lapegna, Pablo. 2016. Introduction, pp. 3-32 in *Soybeans and Power: Genetically Modified Crops, Environmental Politics, and Social Movements in Argentina*. Oxford University Press.

Week 11 (Nov 25)

Biomedical Encounters (3): Global or National?

- Liu, Jennifer A. 2010. “Making Taiwanese (Stem Cells),” pp.239-257 in Aihwa Ong and Nancy N. Chen *Asian Biotech: Ethics and Communities of Fate*. Duke University Press.
- Gibbon, Sahra. 2015. “Translating Population Difference: The Use and Re-Use of Genetic Ancestry in Brazilian Cancer Genetics.” *Medical Anthropology*: 58-72.

Week 12 (Dec 2)

Presentation

**Final Paper*