HSCI 3313 Science and Technology in Asian History
Spring 2013
M-W 3:00-4:15

Instructor: Dr. Suzanne Moon
Office Hours: M-W 1-2:30pm, 4:15-5:15 or by appointment
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325-2076 (Please note: an email will almost always get to me faster than a phone call to this number.)

Course Description:
This course examines the role of science and technology in Asian history from antiquity to the present. We examine the influence and interaction of knowledge traditions in East Asia, South Asia, and Southeast Asia, especially the strong regional influence of Chinese and South Asian practices and priorities in science and technology. We examine how science and technology circulates around and beyond Asia, and their eventual interactions with European approaches to science and technology.

Required Texts:
Carla Nappi, The Monkey and the Inkpot
Sigrid Schmalzer, The People’s Peking Man

Other readings will be available on D2L.

Staying in touch:
For general course announcements or information about changes to the syllabus or readings, please check your email. It is the best way to get you the information you need as swiftly as possible. I will also post announcements on the course’s D2L site. For more individual matters – if you have a question or concern you’d like to discuss, or if I have a question about your work, I prefer to meet in person. Even simple issues can get too complicated to deal with electronically. You can always meet me before or after class to set up an appointment. If you do send me email with a problem or question, I will usually ask you to set up a time to meet and talk it over.

Course Requirements

Class preparation: Students should complete the assigned readings before coming to class. Any day there is a reading, students may be given a quiz on the subject matter of the reading.

Attendance: Students should attend class regularly and actively (listening and
participating) to do well. Attendance policies are as follows:

No more than 3 missed course meetings during the semester: 50 pts
4-5 missed course meetings: 0 pts
6 or more missed course meetings: Automatic failure for the course.

Please note that in some cases, continually showing up late for class without a reason may count as an absence.

If you have circumstances of whatever kind that will require you to miss many classes (more than three) please come speak to me about them as soon as you can, so we can figure out the best course of action for you.

**Grades:** All exams and assignments are mandatory for all students. Please be aware that by turning in an exam or written assignment, you are pledging that the work you turn in is your own, created specifically and uniquely for this course. We will be using Turnitin (the plagiarism detection software) through D2L this semester for all written assignments. Also please note that there are no makeups for reading quizzes or the geography quiz. Please see me if you have special circumstances.

**Exams:**
Prep quiz (before midterm) 50 pts
Exam #1 135 pts
Exam #2 135 pts
In-class quizzes (7: 1x20pts, 6x10pts) 80 pts

Essay #1 150 pts
Essay #2 150 pts
Research Essay and Presentation 200 pts
Attendance 50 pts
Participation 50 pts
TOTAL 1000 pts.

**Essays**
ALL WRITING FOR THIS CLASS MUST BE SPECIFICALLY WRITTEN FOR THIS CLASS. Turning in something written for another class is academic misconduct and may result in a failing grade on the assignment or in the course. I am required by the Provost to report all instances of academic misconduct.
Now here’s the good news. When you write for my class, you never have to do it without help. I am always happy to provide feedback on drafts or outlines of essays (but please provide these at least three days in advance of the due date to make sure I have enough time to respond.) I am also happy to just discuss your paper or your argument. You may also take advantage of OU’s writing center. There you can get help on all aspects of your writing, and learn to produce more polished results more quickly.

Because writing always goes best when it is an iterative process, I offer the opportunity to rewrite any essay for which you received any grade less than an A-. With my approval, you have one rewrite opportunity for each essay. However, you may only rewrite COMPLETED assignments, not partial, or clearly unfinished work. You MUST come speak to me before you rewrite, so we can discuss your strategy. Please be aware that a rewrite does not guarantee a higher grade, but discussing your paper with me first will help you do the best job you can. All essays are expected to meet university-level standards of quality in matters of content and presentation (i.e. grammar, spelling, organization, etc.) Please double space essays and use a 12 pt. readable font like Times or Arial. Margins should be one-inch all the way around.

**In the classroom**
Please turn off or silence all cell phones, ipods or other mp3 players, blackberries etc and put them away before class starts. If you seem “electronically distracted” I reserve the right to ask you to leave or to turn off the device. If I have to ask more than once, I reserve the right to deduct attendance points. We will spend a good bit of class time on discussion, both in small groups and as a whole. Our environment for discussion should be as civil and open as possible, so please exercise common-sense courtesy toward your fellow students.

**Collaboration**
Subjects like history are nearly always best learned collaboratively, which is why I provide as much time as possible for discussion in class, and I encourage you to discuss topics and study together outside of class as well. In essay writing, it is often helpful to talk over your ideas with me or your fellow students. This is fine, providing that you do not step over the line into collaboratively writing or designing essays, which is prohibited. If you are unsure where the line is, talk to me.

**Plagiarism**
Plagiarism is passing off someone else’s work as your own. IT IS AN INSTANCE OF ACADEMIC MISCONDUCT WHICH I AM OBLIGED TO REPORT. For more on plagiarism: what it is, and how to avoid it, I’ve included a document called “9 Things You Should Know About Plagiarism” on D2L. Please read this over and come to me with any questions at any time.

Plagiarism can happen in many ways: straight copying or cutting and pasting from another source, too-close paraphrasing (i.e. copying and substituting a few synonyms here and there), quoting without providing a proper citation of the source, and when students collaboratively develop an assignment that was meant to be done individually. Plagiarism is cheating and hence a serious offense. It prevents an individual from learning, and creates an unfair and dispiriting atmosphere in the classroom. Because I am concerned about plagiarism, I do take the time to look for it. We will be using Turnitin, the plagiarism detection/prevention software this semester.
for that reason. If I find a case of suspected plagiarism, I will ask the student or students involved to talk to me and explain the situation. In the event that it is determined that a student has intentionally plagiarized any portion of an assignment, I reserve the right to give a failing grade for the assignment, or for the class. I will be very happy to help you avoid unintentional plagiarism.

NOTE: For the purposes of this class it is considered Academic Misconduct to recycle material written for another class and use it in any graded assignment for this course. You may certainly bring your knowledge and use it. You may certainly use books you have read for another class as a source, if I have indicated that this is permissible. However, to repeat what I’ve stated above: ALL WRITING FOR THIS CLASS MUST BE SPECIFICALLY WRITTEN FOR THIS CLASS.
Schedule of Class Meetings

Week 1 The Ancient world
1/14 First class meeting - introduction: What is notable about science and technology in Asia?

1/16 Technology and the ancient world: the rise of Asian cities and civilizations

Week 2 Creating science in pre-modern Asia
1/21 MLK Holiday

1/23 Theories of Chinese Science and Medicine: what is science and who are scientists?
Sivin, "State, Cosmos, and Body in the Last Three Centuries B. C."

Week 3 Creating science and medicine in pre-modern Asia
1/28 India
India: Scientific and Technical Bases of Indic Societies
James McClellan and Harold Dorn, Science and Technology in World Civilization, ch. 8 “Indus, Ganges and Beyond.”
Pingree, "The Logic of Non-Western Science: Mathematical Discoveries in Medieval India."

1/30 Healing and Healers in Pre-modern Asia
C. Pierce Salguero, Buddhist Medicine in Medieval China, 25-79.

Week 4 Medicine, and Natural History in Early Modern China
2/4 Looking Back, Looking Forward
Carla Nappi, The Monkey and the Inkpot pt 1, Prologue, chs 1-2 (pp. 1-68.)

2/6 Transformation
Carla Nappi, The Monkey and the Inkpot pt. 2. chs. 3-6, conclusion, (pp.69-149).

Week 5 Technological Challenges and Scientific Tools in Early Modern Asia
2/11 State, Technology and Environment in Asia
Francesca Bray, “Science, Technique, Technology: passages between matter and knowledge in imperial Chinese agriculture.”

2/13 Knowledge and Technology Exchange: Gunpowder, Iron, Medicine
Sun, “Chinese Gunpowder Technology and Dai Viet, c.1390-1497.”

2/15, 11:30pm, Essay #1 due.

Asia and Europe
Week 6
2/18 Exam 1
2/20 Translating European Science and Technology in Asia
Annick Horiuchi, “When Science Develops Outside State Patronage: Dutch Studies in Japan at the Turn of the Nineteenth Century.”

**Week 7**
2/25 New technologies of social control in nineteenth-century Asia
No reading

2/27 Industrial revolution in China.

**Week 8**
3/4 Meiji restoration

3/6 Embedding technology in the colonial world during the Industrial Revolution
TBA

**Week 9 Technology, Nationalism, and Revolution**
3/11 Technology and Revolution: Nationalism and Technology in the early 20th Century
Grace Shen, "Taking to the Field: Geological Fieldwork and National Identity in Republican China."

3/13 Technology and the Japanese Empire
Jung Lee, “‘Korean Edisons’ and the Changing Understanding of Technology in Colonial Korea”, forthcoming in *Technology and Culture*. (Please use this not-yet-published manuscript only for the purposes of this class.)

3/15 Essay #2 due.

**Week 10 (SPRING BREAK)**
3/18 No class

3/20 No class

**Week 11 Mao’s China: Science in Popular Culture**
3/25 Schmalzer, *The People’s Peking Man*, Introduction, chs. 1-3 (pp. 1-112)

3/27 Schmalzer chs. 4,5,7. (pp. 113-173; 210-246.)

Research proposal due: 3/29

**Week 12 Asian Postcolonial Industrialization**
4/1 Economic Miracles? Considering Japan and Korea
Chihyung Jeon, “A Road to Modernization and Unification: The Construction of the Gyeongbu Highway in South Korea”
(Find on Project Muse database: (1) login to library website with your 4x4 first!! (2) enter the following URL to go to the proper issue:
http://muse.jhu.edu.ezproxy.lib.ou.edu/journals/technology_and_culture/toc/tech.51.1.html (3) scroll down to the table of contents and download the pdf.)

4/3 Cultures of technology among the “Asian Tigers”

**Week 13 Asian Science and Technology: contemporary issues**
4/8 TBA (extra credit opportunity)

4/10 TBA (extra credit opportunity)

**Week 14 Asia in Space**
4/15 The Asian Space Race
reading TBA

4/17 Exam 2

**Week 15**
4/22 Presentations

4/24 Presentations

4/26 Draft of research paper due

**Week 16**
4/29 Presentations

5/1 Presentations
FINAL Essay due May 9, 6:30pm via Dropbox
Bibliography


