Course Schedule

TOPICS & READING ASSIGNMENTS

(Readings from other than the required texts are linked from this page)

WEEK 1

February 3:  Introduction

The Nova film

Special assignment due at the beginning of class on February 5: State in your own words, in one double-spaced paragraph: What are the objectives of this course?

February 5:  Western definitions of science and the history of science

Readings


Jürgen Renn and Donald Salisbury, "Toward a Dynamics of Science Practice", draft chapter from English revision of *On the Shoulders of Giants and Dwarfs: Einstein's Unfinished Revolution*.

Suggested Supplementary Reading


February 11: Last day to add a course

WEEK 2

February 10:  Ancient China, Oracle bones, and Divination

Guest speaker: Yu Qin (Eleanor)

Readings


David Keightley, The Science of the Ancestors: Divination, Curing and Bronze Casting in Late Shang China, unpublished paper.

February 12: Religions in Ancient and Medieval China

Readings
Patricia Ebrey, The Cambridge Illustrated History of China, chapter 2 and 4

WEEK 3
February 17: Introduction to naked-eye astronomy

Readings
Thomas Kuhn, The Copernican revolution, chapter 1 (The ancient two-sphere universe), pp. 1-25

February 19: Astronomy and Astrology in Medieval China

Readings
Edward Schafer, Pacing the Void: Tang Approaches to the Stars, chapters 2, 3, and 6

WEEK 4
February 24:
No class

February 26: Classical Greek science and mathematics

Readings
Patricia Ebrey, The Cambridge Illustrated History of China, chapter 3
Thomas Kuhn, The Copernican revolution, chapter 1 (The ancient two-sphere universe), pp. 25-76
Geoffrey Lloyd and Nathan Sivin, The Way and the Word: Science and Medicine in Early China and Greece. chapters 3 (Social and institutional framework of Greek science) and chapter 4 (Fundamental issues of Greek science)

Discussion Leaders (readings of Feb. 12): John Rudder, Leeza Crockett, Cooper Woodyard

WEEK 5
March 3: Classical Chinese science and mathematics

QUIZ 1 (March 3): Naked-eye astronomy


Discussion Leader (readings for Feb. 19): John Happel, Cody Meyers, Diana Yu, Oksana Kennedy

March 5: Class canceled due to weatherCartography, Geomancy and Physics
Spring Recess: March 9 - 13

WEEK 6
March 17: Cartography, Geomancy and Physics
Readings
Discussion Leaders: (readings of Feb. 26): Daisy Flores, Samantha Rhyne, John Rudder
Discussion Leaders: Edgar Rodriguez, John Happel, Andrew O'Connor

March 19: Architecture and fengshì
Readings
Discussion Leaders: Edgar Rodriguez, Faisal Habib

WEEK 7
March 24: Religion, Metallurgy and Alchemy: East and West
Readings
Ku-min Chang, Alchemy as studies of Life and Matter, Isis, 2011.
Discussion Leaders: Daisy Flores, Faisal Habib

March 26: Metallurgy and Chinese and European technology
Readings
Discussion Leaders: Alex Tignor, Andrew O'Connor

WEEK 8
March 31: Western Scientific Revolution
Thomas Kuhn, Chapter 4: "Recasting the tradition: Aristotle to the Copernicans" in The Copernican revolution
Noel Swerdlow, *Galileo's Discoveries with the telescope and the evidence for the Copernican theory."

**Discussion Leaders:** Mursal Bahadory, Cody Meyers, John Rudder

April 2: Jesuits and Copernicus in China

**Readings**

**Discussion Leaders:** Mursal Bahadory, Leeza Crockett, Ohsana Kennedy, Cooper Woodyard

**WEEK 9**

April 7: Kangxi, the Jesuits and Mathematics

**QUIZ 2**

**Readings**
Catherine Jami, *The Emperor's New Mathematics* (selections)

**Discussion Leaders:** Faisal Habib, Cooper Woodyard

**Supplementary Readings**

April 9: Jesuits and the Western Encounters with Chinese Medicine

**Reading**
Jesuits and Western Encounters: Pharmaceuticals and the Body

**Reading**
Linda Barnes, *Needles, Herbs, Gods and Ghosts*, chapters 4-5

**Discussion Leaders:** Alex Tignor, John Happel

**WEEK 10**

April 14-16: Chinese and Western encounters, Post-Qing to Republican Period

**Discussion Leaders:** Andrew O'Connor, Alexis Puga

**WEEK 11**
April 21: PRC, Science and Medical Practice

**QUIZ 3**

Readings


Discussion Leaders: Samantha Rhyne, Ohsana Kenned

WEEK 12

April 28: PRC, Science and Medical Practice

**Reading**


Discussion Leaders: Daisy Flores, Alex Tignor, Diana Yu

April 30: Mao, Science and Technology

**Reading**


Discussion Leaders: Edgar Rodriguez, Leeza Crockett

Week 13

May 5: Review Period

May 7: Exam

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