



16SP_REL_250_A China and the West

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Course Schedule

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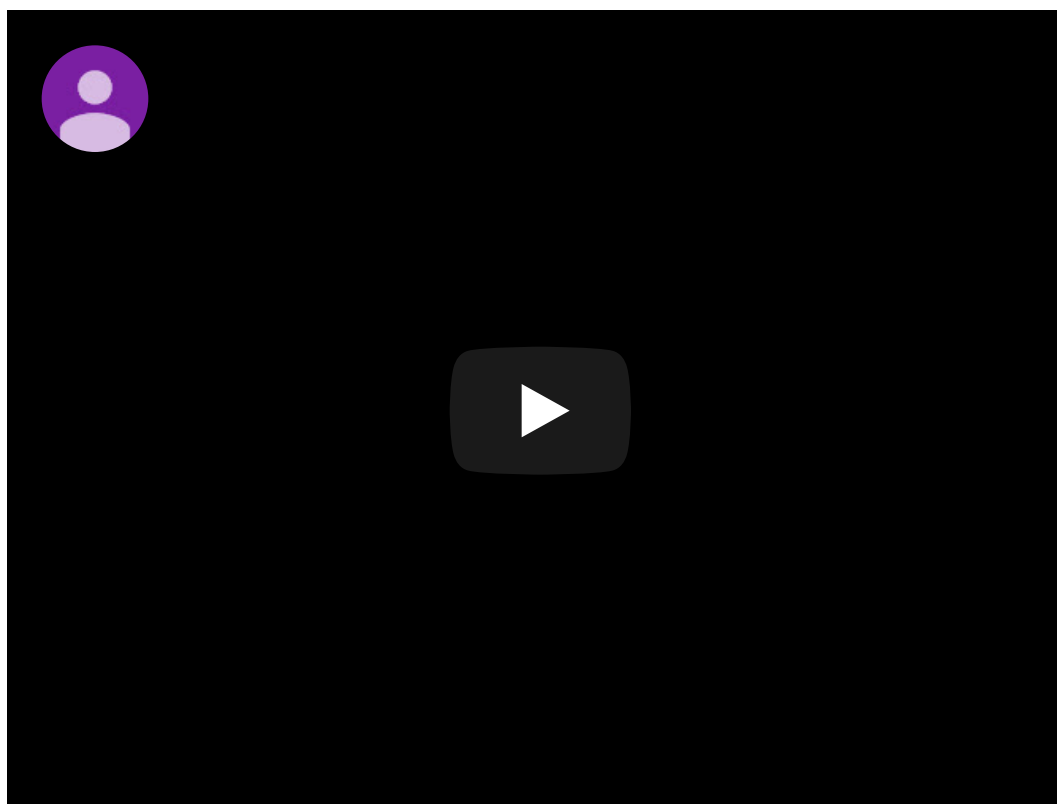
TOPICS & READING ASSIGNMENTS

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

WEEK 1

February 1: Introduction (Don & Ivette)

Nova film



Special assignment due at the beginning of class on February 3: State in your own words, in one double-spaced paragraph, what are the objectives of this course?

February 3: Western definitions of science and the history of science (Don)

Readings

Geoffrey Lloyd and Nathan Sivin, *The Way and the Word: Science and Medicine in Early China and Greece*. Chapter 1 (Aims and methods)

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

Peter Dear, "What is the History of Science the History of?: Early Modern Roots of the Ideology of Modern Science." *Isis*, 2005, 96: 390-406

WEEK 2

February 8: Ancient China, Oracle bones, and Divination (Ivette)

Readings

Patricia Ebrey, *The Cambridge Illustrated History of China*, chapter 1.

David Knightley, *The Science of the Ancestors: Divination, Curing and Bronze Casting in Late Shang China*, unpublished

February 10: Religions in Ancient and Medieval China (Ivette)

Readings

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

Geoffrey Lloyd and Nathan Sivin, *The Way and the Word: Science and Medicine in Early China and Greece*. Chapter 2 (Social and institutional framework of Chinese science)

Stephen Teiser, "The Spirits of Chinese Religion." In *Religions of China in Practice*. Edited by Donald S. Lopez, Jr. Princeton University Press, 1996.

WEEK 3

February 15: Introduction to naked-eye astronomy (Don)

Readings

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

Discussion Leaders: Milo Opdahl, Patrick Johnson

February 17: Astronomy in Ancient and Medieval China (Don)

Readings

Patricia Ebrey, *The Cambridge Illustrated History of China*, chapter 5.

Y. Shi, "Ancient Chinese Astronomy: An overview." In *Handbook of Archaeoastronomy and Ethnoastronomy*. pp. 2031-2042

Xiaochun Sun, "Observation of Celestial Phenomena in Ancient China." *Handbook of Archaeoastronomy and Ethnoastronomy*. pp. 2043-2049.

_____, "Chinese Constellations and Star Maps," pp. 2050-2058

Discussion Leaders (Shi and Sun): Nahom Yemane, Samantha Carr, Isaac Groover

WEEK 4

February 22: Astrology in Ancient and Medieval China (Ivette)

February 24: Classical Greek science and mathematics (Don)

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 (Kuhn, Lloyd and Sivin): Uma Maharaj, Rebel Hafner, Sneha Reddy

Week 5

February 29: Classical Chinese science and mathematics (Don)

QUIZ 1 Naked-eye astronomy

March 2: More Chinese mathematics

Readings

Colin A. Ronan, *The Shorter Science and Civilisation in China*, Vol. 2, chapter 1 (Mathematics, pp. 1-26)

Discussion Leaders: Matthew Bagley, Patrick Johnson

(Week 6) Spring Recess: March 7 - 13

Week 7

March 14: Cartography, Geomancy and Physics (Don)

Readings

John B. Henderson, "Chinese Cosmographical Thought: The High Intellectual Tradition." In *The History of Cartography*, vol. 20: *Cartography in Traditional East and Southeast Asian Societies*, eds. J. B. Harley and David Woodward. Chicago: University of Chicago Press, 1994

Discussion Leaders: Kaylee Shapiro, Christian Chiles

March 16: Architecture and fengshi (Ivette)

Readings

X. Chen & J. Wu (2009). Sustainable landscape architecture: Implications of the Chinese philosophy of 'unity of man with nature' and beyond. *Landscape Ecology*, 24(8), 1015-1026.

David W. Pankenier, "Astronomy and City Planning in China," In *Handbook of Archaeoastronomy and Ethnoastronomy*. pp. 2093

Discussion Leaders: Charlotte Wright, Amanda Goodson

Week 8

March 21: Religion, Metallurgy and Alchemy in the East (Ivette)

Readings

Ku-ming Chang, *Alchemy as studies of Life and Matter*, Isis, 2011.

Nathan Sivin, "Chinese Alchemy and the Manipulation of Time." *Isis*, Vol. 67, No. 4 (Dec., 1976): 512-526.

Patricia Ebrey, *The Cambridge Illustrated History of China*, chapters 6-9.

March 23: Metallurgy and Alchemy in the West (Don)

Readings

Francesca Bray, "Technics and Civilization in Late Imperial China: An Essay in the Cultural History of Technology." *Osiris*, 2nd Series 13, *Beyond Joseph Needham: Science, Technology, and Medicine in East and Southeast Asia* (1998): 20-33.

Week 9

March 28: Western Scientific Revolution (Don)

Readings

Thomas Kuhn, Chapter 4: "Recasting the tradition: Aristotle to the Copernicans" in *The Copernican revolution*

Patricia Ebrey, *The Cambridge Illustrated History of China*, chapter 9.

Noel Swerdlow, Galileo's Discoveries with the telescope and the evidence for the Copernican theory.

Augustin Udia, "The Jesuits and Galileo," In *Jesuit Contribution to Science*. Section 1.6, pp. 17-22

Discussion leader: Sneha Reddy

March 30: Galileo and the Catholic church (Don)

Readings

Linda Barnes, *Needles, Herbs, Gods and Ghosts*, chapters 1-2

Augustin Udia, "Clavius and Math in the Collegio Romano," In *Jesuit Contribution to Science*. Sections 1.1 - 1.5, pp. 1-16

Jonathan Spence, *The Memory Palace of Matteo Ricci*, chapter 5, pp. 128-161

Week 10

April 4: Jesuit Astronomers (Don and Ivette)

Reading

Augustin Udia, "Jesuit Astronomers in China and India," In *Jesuit Contribution to Science*. Sections 4.1-4.5, pp. 91-97 and S 4.8, pp. 102-104

Matthias Schemmel, "The Transmission of Scientific Knowledge from Europe to China in the Early Modern Period." In *The Globalization of Knowledge in History*. Jürgen Renn, ed. et al. Edition Open Access, 2012: chapter 11, pp. 280-289

Discussion leaders: Matthew Bagley and and Samantha Carr

April 6: Jesuits and the Western Encounters with Chinese Medicine (Ivette)

Reading

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

Discussion leader: Nahom Yemane

Week 11

April 11: Yuan, Ming, and Qing Science (Don)

13: Chinese medicine in imperial & encounters with the west in early 20th c. China (Ivette)

Readings

Nathan Sivin, "State, Cosmos and Body in the Last Three Centuries BC." In *Harvard Journal of Asiatic Studies*, Vol. 55, No. 1 (Jun., 1995): 5-37.

Marwa Elshakry, "When Science Became Western." *Isis*. Vol. 101, No. 1 (March 2010): 98-109.

Paul Unschuld, "Epistemological Issues and Changing Legitimation: Traditional Chinese Medicine in the Twentieth Century." In *Paths to Asian Medical Knowledge*. University of California Press: 44-61.

Denise Gimpel, "Taking China to the World, Taking the World to China: Chen Hengzhe and an Early Globalizing Project." In *Globalization of Knowledge in History*. Jürgen Renn, ed. et al. Edition Open Access, 2012: chapter 17.

Kim Taylor, "A new, scientific, and unified medicine: civil war in China and the new acupuncture, 1945-49," In *Innovation in Chinese Medicine*, Cambridge University Press, 2001: 343-369.

Patricia Ebrey, *The Cambridge Illustrated History of China*, chapter 10.

Discussion leaders: Charlotte Wright and and Kaylee Shapiro

Week 12

April 18: [PRC, Science and Medical Practice I](#) (Ivette)

Reading

Elisabeth Hsu, "The History of Chinese Medicine in the People's Republic of China and its Globalization", East Asian Science and Technology, Vol. 12, No. 1 (1990): 1-12.

Patricia Ebrey, The Cambridge Illustrated History of China. Chapter 12.

Heiner Fruehauf, "Science, Politics, and the Remaining of "TCM": Chinese Medicine in Crisis." Journal of Chinese Medicine, Vol. 61 (October 1999): 1-9.

Craig R. Janes, "The Transformations of Tibetan Medicine." Medical Anthropology Quarterly, New Series, Vol. 9, No. 1 (March 1995): 6-39.

Discussion leaders: Isaac Groover and Christian Chiles

April 20: [PRC, Science and Medical Practice II](#) (Ivette)

Reading

Patricia Ebrey, The Cambridge Illustrated History of China. Chapters 11.

Judith Shapiro, "Population, Dams and Political Repression: A Story of Two Environmental Disasters and the Scientists who tried to Avert Them." In Mao's War Against Nature: Politics and the Environment in Revolutionary China. Cambridge University Press, 2001: 21-65.

Discussion leaders: Milo Opdahl and Uma Maharaj

Week 13

April 25: [Mao, Science and Technology I](#) (Don)

April 27 **QUIZ 2**

Week 14

May 2: Reflective Discussion

Mao's "TCM": Milo and Uma

The Politics of Chinese traditional medicine: Sneha and Patrick

Chinese scholars, globalization and Western scholarship: Charlotte and Kaylee

Civil war in china and new acupuncture: Matthew and Samantha

Science as Western: Nahome and Amanda

Chinese medicine microcosm and macrocosm model, the body and the state: Isaac and Christian

May 4: **QUIZ 3**

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