15SP_0	You are logged in as Don Salisbury (Log out)
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Add a block	Course Schedule
Add	TOPICS & READING ASSIGNMENTS
	(Readings from other than the required texts are linked from this page)
	WEEK 1
	February 3: Introduction
	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
	Geoffrey Lloyd and Nathan Sivin, <i>The Way and the Word: Science and Medicine in Early China and Greece</i> . 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." <i>Isis</i> , 2005, 96: 390-406
	February 11: Last day to add a course
	WEEK 2
	February 10: Ancient China, Oracle bones, and Divination
	Guest speaker: Yu Qin (Eleanor)
Σ	Readings

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Roger Hart, "Beyond Science and Civilization: A Post-Needham Critique." EASTM 16 (1999): 88-114.

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

David Keightley, The Science of the Ancestors: Divination, Curing and Bronze Casting in Late Shang China, unpublished paper.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

Geoffrey Lloyd and Nathan Sivin, The Way and the Word: Science and Medicine in Early China and Greece. Chapter 2 (Social 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

February17: Introduction to naked-eye astronomy

Readings

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

Discussion Leaders: Mursal Bahadory

February 19: Astronomy and Astrology in Medieval China

Readings

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

Edward Schafer, *Pacing the Void: Tang Approaches to the Stars*, chapters 2, 3, and 6 Part1 Part2

WEEK 4

February 24

No class

February 26: Classical Greek science and mathematics

<u>Readings</u>

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

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

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

March 5: Class canceled due to weatherCartography, Geomancy and Physics

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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 (readings of Feb. 26): Daisy Flores, Samantha Rhyne, John Rudder

Discussion Leaders: Edgar Rodriguez, John Happel, Andrew O'Connor

Spring Recess: March 9 - 13

WEEK 6

March 17: Cartography, Geomancy and Physics

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 (readings of Feb. 26): Daisy Flores, Samantha Rhyne, John Rudder

Discussion Leaders: Edgar Rodriguez, John Happel, Andrew O'Connor

March 19: Architecture and fengshi

<u>Readings</u>

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.
Wenmei Ji, An Influence of Chinese Traditional Geomantic Concept on Layout of Settlements in Huizhou--with an example of the Pingshan Village. *Applied Mechanics and Materials* Vols. 174-177 (2012) pp 1849-1854.

Discussion Leaders: Edgar Rodriguez, Faisal Habib

WEEK 7

March 24: Religion, Metallurgy and Alchemy: East and West

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.

Discussion Leaders: Daisy Flores, Faisal Habib

March 26: Metallurgy and Chinese and European technology

<u>Readings</u>

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

Discussion Leaders: Alex Tignor, Andrew O'Connor

March 31: Western Scientific Revolution 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. Discussion Leaders: Mursal Bahadory, Cody Meyers, John Rudder April 2: Jesuits and Copernicus in China Readings Linda Barnes, Needles, Herbs, Gods and Ghosts, chapters 1-2 Nathan Sivin, "Copernicus in China or, Good Intentions Gone Astray." Science in Ancient China. Researches and Reflections, Chapter IV. Aldershot: Variorum, 1995 (selections). 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 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. 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 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 The 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 acumoxa, 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: Andrew O'Connor, Alexis Puga

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WEEK 11

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April 21: PRC, Science and Medical Practice QUIZ 3 Readings Elisabeth Hsu, "The History of Chinese Medicine in the People's Republic of China and its Globalization", East Asian Science. Patricia Ebrey, The Cambridge Illustrated History of China. Chapter 12. Discussion Leaders: Samantha Rhyne, Ohsana Kenned WEEK 12 April 28: PRC, Science and Medical Practice Reading Heiner Fruehauf, "Science, Politics, and the Remaining of "TCM": Chinese Medicine in Crisis." Journal of Chinese Medicine. No. 61 (October 1999): 1-9. Craig R. Janes, "The Transformations of Tibetan Medicine." Medical Anthropology Quarterly, New Series, Vol. 9, No. 1 (Mar., 1995): 6-39. Discussion Leaders: Daisy Flores, Alex Tignor, Diana Yu April 30: Mao, Science and Technology 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: Edgar Rodriguez, Leeza Crockett Week 13 May 5: **Review Period** May 7: Exam Last modified: Wednesday, 1 April 2015, 1:17 PM (i) Moodle Docs for this page You are logged in as Don Salisbury (Log out) 15SP_GSTS_250_A

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