




13JT_SCI_100_E Science and Culture

My home ► My courses ► SCI ► 13JT_SCI_100_E ► Schedule, Assignments, and Resources ► Schedule

Schedule

Tentative Class Schedule

Date	Topics	Required Reading Assignments	Supplementary Reading
Mon 1/7	Introduction and Overview <div data-bbox="337 699 914 751" style="background-color: black; color: white; padding: 2px;"> The Genius That Was China: The Ris... </div> <div data-bbox="578 884 675 953" style="text-align: center; margin-top: 20px;"> </div>		
Tue 1/8	Ancient Greek and Roman history Error while accessing the embedded media. Please try refreshing the page. Error while accessing the embedded media. Please try refreshing the page.	Camp and Fisher, <i>The World of the Ancient Greeks, Chapters VI, VII</i>	
Wed 1/9	Ancient Chinese history Confucius Mencius Xunzi	Patricia Ebrey, <i>The Cambridge Illustrated History of China, Chapters 1-3</i>	
Thu 1/10	Naked eye astronomy	Kuhn, <i>The Copernican Revolution</i> , pp 1-25	
Fri 1/11	Greek astronomy Spheres of Eudoxus simulation (download the .jar file) Ptolemy <div style="text-align: center;">ptolemaic.swf</div>	Kuhn, <i>The Copernican Revolution</i> , pp 25-76 Lloyd, <i>Greek Science: Thales to Aristotle</i> , pp 80-98 Lloyd, <i>Greek Science: After Aristotle</i> , pp 53-74, 113-135	

Mon 1/14	<p>Greek and Chinese astronomy Precession of the equinoxes simulation</p> <p>Hipparchus Shi Shen Gan De Sima Qian Zhang Heng</p>	Nathan Sivin, <i>Granting the Season</i> , pp 70-110	
Tue 1/15	<p>Chinese astronomy II Zhang Zai Suzhou planisphere simulation Su Song Armillary sphere</p> <div style="text-align: center;">  <p>Su Song Astronomical Clock Tower from Gregory Glezakos PLUS</p> </div> <div style="text-align: center; margin-top: 20px;"> <p>01:35</p> <hr style="width: 150px; border: 1px solid black;"/> <p>HD</p> </div>	Colin A. Ronan, <i>The Shorter Science and Civilisation in China</i> , Vol. II, pp 67-221	Nathan Sivin, <i>Granting the Season</i> , pp 171-211
Wed 1/16	<p>Greek mathematics</p> <p>Pythagoras Archytas Archytas' Curve Euclid</p>	<p>Camp and Fisher, <i>The World of the Ancient Greeks, Chapter IX</i></p> <p>Lloyd, <i>Greek Science: Thales to Aristotle</i>, pp 24-35</p> <p>Lloyd, <i>Greek Science: After Aristotle</i>, pp 33-52</p>	
Thu 1/17	<p>Chinese mathematics</p> <p>Qin Jiushao Pascal's triangle Zhu Shijie</p>	Sivin, in <i>Heritage of China: Contemporary Perspectives on Chinese Civilization</i> , pp 171-181	Colin A. Ronan, <i>The Shorter Science and Civilisation in China</i> , Vol. II, pp 1-66
Fri 1/18	<p>Greek medicine</p> <p>Hippocrates Herophilus Erasistratus Galen</p>	<p>Lloyd, <i>Greek Science: Thales to Aristotle</i>, pp 50-65</p> <p>Lloyd, <i>Greek Science: After Aristotle</i>, pp 75-90, 136-153</p>	
Mon 1/21	<p>Chinese medicine</p> <p>Dong Zhongshu Huangdi Neijing Book of Documents</p>	<p>Sivin, "State, Cosmos, and Body in The Last Three Centuries B. C."</p> <p>Sivin, pp 181-188 in <i>Heritage of China: Contemporary Perspectives on Chinese Civilization</i>.</p> <p>Patricia Ebrey, <i>The</i></p>	

		<i>Cambridge Illustrated History of China, Chapters 4-6</i>	
Tue 1/22	Social and institutional framework of Greek science	Lloyd and Sivin, <i>The Way and the Word</i> , pp 82-139	
Wed 1/23	Fundamental issues of Greek science	Lloyd and Sivin, <i>The Way and the Word</i> , pp 140-187	
Thu 1/24	Social and institutional framework of Chinese science	Lloyd and Sivin, <i>The Way and the Word</i> , pp 16-81	
Fri 1/25	Fundamental issues of Chinese science	Lloyd and Sivin, <i>The Way and the Word</i> , pp 188-238	
Mon 1/28	<i>Greek and Chinese Science compared</i>	Lloyd and Sivin, <i>The Way and the Word</i> , pp 239-252	
Tue 1/29	<i>Why didn't the scientific revolution occur in China? (Or didn't it?)</i>	Sivin, <i>Chinese Science</i> 5 (1982), pp 45-66	

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