History 106
Introduction to the History of Science:
THE SCIENTIFIC REVOLUTION
Professor Robert S. Westman
Fall Quarter 2008
Tu Th 3:30-4:50 p.m.
Peterson Hall 102

Office: H&SS 4072; Tel. 534-6317
Office Hours: Wed., 1-3; after class some Tuesdays & by appt.
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Required Reading (Available at UCSD Bookstore)
Book Abbreviations in square brackets below [=]

**Sourcebook Readings (=SB): The Scientific Revolution
**Other Readings: WebCT

Recommended Reading


Lecture Topics and Associated Readings

Part I: Copernicus’s Problematic

25 Sept. Introduction. The University: What would you have learned in the 16C? Where would you have learned it?
30 Sept., 2 Oct. The University Curriculum I: Aristotelian Natural Philosophy
(a) Dear, RS, pp. 1-18; (b) Kuhn, CR, ch. 3; c) SB 11: Ashworth, pp. 65-67.
(a) Kuhn, CR, chaps. 1, 2; (b) SB 1: Grafton, 22-37; (c) Dear, RS, pp. 18-29; (d) Animations of planetary motions by Prof. Dennis Duke [Google: “Dennis Duke”> “Almagest Planetary Model Animations”; Scroll down to “II. Stand Alone Versions”; also on WebCT]; (d) WebCT: Ptolemy, Almagest, selections. http://www.scri.fsu.edu/~dduke/models
Read: (a) Dear, RS, pp. 30-45; (b) Kuhn, CR, pp. 123-184; (c) SB 2: Westman, "Copernicus and the Crisis of the Prognosticators"; (d) SB 3: Copernicus, Commentariolus; (e) Duke Animations [see link]

>>>Examination I: Thursday, October 23 (in-class)<<<<

Part II: Conflicted Modernizers, Singular and Recurrent Novelties
28 Oct. The Copernicans and the Churches: Convincing Catholic Rome and Lutheran Wittenberg
   (a) SB 4: Westman, “The Melanchthon Circle, Rheticus and the Wittenberg Interpretation of the Copernican Theory”; (b) SB 5: Westman, "The Copernicans and the Churches"
30 Oct. Kepler: From the Cosmographic Mystery to the New Astronomy
4 Nov. Kepler and Galileo: Unexpected Novelties in the Heavens

>>>Examination II: Thursday, November 6 (in-class)

Part III: From Philosophizing Astronomers to New-Style Natural Philosophers
11 Nov. New Visions and Places of Scientific Authority in the Seventeenth Century
   Read: Dear, RS, pp. 111-130; SB 7: Popkin, History of Scepticism, Introd., chap. 1
13, 18, 20 Nov. Divine Activity and the Mechanical Philosophy
   Read: (a) Dear, RS, pp. 80-100; (b) Kuhn, CR, pp.238-242; 252-4; (c) Descartes, DM (entire); d) SB 11: Ashworth, pp. 61-65; 68-74.

>>>Thanksgiving Recess: Thursday, 27 November<<<<

2, 4 Dec. Atheism Resolved: How Sir Isaac Newton Restored Law n'Order to the West
   Read: (a) Dear, RS, pp. 149-170; (b) Kuhn, CR, pp. 252-265; c) SB 11: Ashworth, pp. 74-84; d) SB 12: Newton, “System of the World,” 253-274.

Grading Requirements

+Examination I (25%): Bluebook/Essay
Examination II (25%): Bluebook/Essay
Final Examination (50%): Bluebook/Essay
Final Exam Date: MONDAY, DECEMBER 8, 3-6 P.M.