

GALILEO
HPS 2528 CRN: 38824

Machamer, TERM: 01-2

Texts:

- Galileo, *Concerning the Two Chief World Systems* (Dialogo)
ISBN: 0520004507 PUBLISHER: U of California
- Galileo, *Dialogues Concerning Two New Sciences* (Discorsi)
ISBN: 0486600998 PUBLISHER: Dover
- Drake, S., *Discoveries and Opinions of Galileo*
ISBN: 0385092393 PUBLISHER: Doubleday
- Finocchiaro, M., ed., *The Galileo Affair*
ISBN: 0520066626 PUBLISHER: U of California

RECOMMENDED:

- Machamer, P. ed., *The Cambridge Companion to Galileo* [CC]
ISBN: 0521288413 PUBLISHER: Cambridge UP
- Drake, S., *Galileo at Work*
ISBN: 0486286312 PUBLISHER: Dover

Syllabus

- 4 January, Introduction (Machamer, Introduction to [CC])
11 *De Motu*, 1-14; Machamer in [CC]
18 *De Motu*, 15-23 Hooper in [CC]
25 Drake, *Galileo at Work*, Chaps 5-7 (see also journal articles referred to by Drake)
- 1 Feb. *Discorsi*, Day 3
8 *Discorsi*, Day 4
15 *Sidereus Nuncius*, in Drake, *Discoveries and Opinions*
22 "Letters on the Sunspots" in Drake, *Discoveries and Opinions*
- 1 March *Dialogo*, Day 1
8 Spring Break
15 *Dialogo*, Day 2
22 *Dialogo*, Days 3 & 4; Shea and Swerdlow in [CC]
29 Finocchiaro, Parts I -III
5 April Finocchiaro, Parts V & VI
12 Finocchiaro, Parts VII & IX
19 McMullin in [CC]
27 Term papers due

Additional Suggested readings

P. Redondi, *Galileo Heretic*

M. Biagoli, *Galileo, Courtier*

W. Wallace, *Galileo's Logic of Discovery and Proof*

James M. Lattis. *Between Copernicus and Galileo : Christoph Clavius and the Collapse of Ptolemaic Cosmology*

Eileen Reeves, *Painting the Heavens*

Course Requirements:

Seminar presentation. Written somewhat detailed outline of presentation to be available for pick up in 1017CL by Thursday morning, 12 noon.

Term paper, on topic of your choice; but discuss the topic with me before starting

Websites:

<http://www.briefme.com/a/article.cgi?id=9131&uid=109324&link=es>

Rice University hosts this thorough site on the life, times, and discoveries of Galileo Galilei. If the historical side of science ignites your imagination, this is definitely a page you'll want to enjoy at a leisurely pace. One of the site's main areas is Galileo's Villa, where you can find all kinds of information on the master scientist's life and contemporaries, including pictures of Galileo's colleagues, descriptions of his patrons, text on his instruments, and (of course) information on his major discoveries. Maps, glossaries, and other resources are available as well, and don't miss the section on Galileo's daughter Maria Celeste, which features information from Dava Sobel's book and dozens of letters from Maria to her father.

Another good site in Florence's museum which also has mss. Online.:
A Selection of Web Sources for the History of Science:

<http://galileo.imss.firenze.it/~tsettle/index.html>

GALILEO GALILEI

1564, 15 Feb Galileo is born in Pisa

1586 La Bilancetta

1589 Professor of Math at Pisa

1590 De Motu

1592 Professor of Math at Padova

1600 Le Meccaniche

1606 Geometrico-Military Compass

1610 Sidereus Nuncius

Moves to Florence as Chief Philosopher and Mathematician to
Grand Duke Cosimo

1612 Discourse on Floating Bodies

1613 Letters on the Sunspots

1615 "Letter to the Grand Duchess Christina"

1616 Copernican theory placed on Index

Galileo interviews with Cardinal Bellarmine

Works out theory of the Tides, (draft mss.)

1623 Il Saggiatore

Barbereni becomes Urban VIII

1632 Dialogo

1633 Galileo condemned

1638 Discorsi

1642 Galileo dies