

TENTATIVE SCHEDULE

Date	Topic	Assigned Reading
Jan. 12	Introduction and Overview	
Jan. 14	Zeno's Paradoxes	H 3
Jan. 19	Aristotle's <i>Physics</i>	H 4
	The Classical Debate	
Jan. 21	The New Science of Motion	CR 1, CR 2
Jan. 26	Descartes: Inertia, Space, and Motion	H 6, CR 3
Jan. 28	Newton: Absolute Space	H 7
Feb. 2	Newton continued	CR 4
Feb. 4	Leibnizian Relationalism	H 8, CR 5 (selections)
Feb. 9	Wrap-up and Review; Midterm Exam	
	Geometry and Conventionality	
Feb. 11	Kant on Geometry	H 12
Feb. 16	Euclidean and Non-Euclidean Geometry	R 1-8
Feb. 18	Conventionality of Geometry	H 13; R 11-12
Feb. 23	Continued	CR 6 (selections)
	Modern Spacetime Theories	
Feb. 25	Introduction to Spacetime	G 3-5, H 10
Mar. 1	Special Relativity	G 5-6, R 24-33
Mar. 3	Continued	
Mar. 8	General Relativity	R 34-37, G 6-7
Mar. 10	Classical Debates Reformulated	CR 6 (selections)
Mar. 15	Continued	CR 7
Mar. 17	General Relativity and cosmology	G 8

Note: CR refers to the articles in the course reader, listed below; R = Reichenbach, G = Geroch, H = Huggett (numbers refer to chapters or section numbers).

Course Webpage: I will adjust this schedule and the reading assignments as the quarter progresses. Check the course webpage for regular updates on the schedule and other class announcements. Any handouts or other materials distributed in class (including reading questions) will be posted on the webpage, along with supplemental readings and links to other useful websites.

COURSE READER CONTENTS

1. Selections from Galileo, *Dialogue Concerning the Two Chief World Systems*, translated by Stillman Drake, pp. 114-117, 144-150, 186-189.
2. Huygens, "On the motion of bodies resulting from impact," translated by Michael Mahoney.
3. Selections from the *Principles of Philosophy*, Descartes, translated by Miller and Miller (Part II, pp. 39-71).
4. "Newton's Philosophical Analysis of Space and Time," by Robert Di Salle. In the *Cambridge Companion to Newton*, ed. by G. E. Smith and I. B. Cohen.
5. Selections from *World Enough and Spacetime*, by John Earman. Chapter 1, pp. 6-20; and Chapter 6, pp. 111-136.
6. "Philosophy of Space and Time," by John Norton. In *Introduction to the Philosophy of Science*, by Salmon et al., pp. 179-231.
7. "Spacetime Metaphysics," by Barry Dainton. Chapter 19 of *Time and Space*, pp. 301-319.

Texts on Reserve

Earman, *World Enough and Spacetime*
Friedman, *Foundations of Spacetime Theories*
Grünbaum, *Philosophical Problems of Space and Time*
Jammer, *Concepts of Space*
Sklar, *Space, Time, and Spacetime*
Torretti, *Relativity and Geometry*
van Fraassen, *Introduction to the Philosophy of Space and Time*