PHIL/ 686 Philosophy of Space & Time	Fall 2001	Prof. Don Howard
HPS TTh 2:00–3:15		308 Malloy Hall
		Tel: 631–7547
		Don.A.Howard.43@nd.edu
		Office Hours: TTh 1:00–2:00

Texts: Robert Geroch. *General Relativity from A to B.* Chicago: University of Chicago Press, 1981. Lawrence Sklar. *Space, Time, and Spacetime*. Berkeley: University of California Press, 1977.

Requirements: Each participant in the seminar will be required to make one presentation to the seminar, on a topic to be chosen in consultation with the instructor, and to submit a research paper (minimum 15 pp.) on a topic related to the seminar and, again, chosen in consultation with the instructor.

Schedule:

Date:	Topic:	Readings:
28 Aug.	Introduction: A (Very) Brief Survey of the History of Theories of Space and Time from Antiquity to the Twentieth Century	
30 Aug.		
04 Sep.	The Space-Time Viewpoint	Geroch, chs. 1-4.
06 Sep.		
11 Sep.	A Primer on General Relativity, I	Geroch, chs. 5-6.
13 Sep.		
18 Sep.	A Primer on General Relativity, II	Geroch, chs. 7-8.
20 Sep.		
25 Sep.	The Epistemology of Geometry	Sklar, ch. II.
27 Sep.		
02 Oct.	Absolute Motion and Substantival Spacetime	Sklar, ch. III.
04 Oct.		
09 Oct.	Causal Order and Temporal Order	Sklar, ch. IV.
11 Oct.		

16 Oct.	The Direction of Time
18 Oct.	
23, 25 Oct.	Fall Break
30 Oct.	The Hole and Point-Coincidence Arguments
01 Nov.	Preparing for Norton's Visit
06 Nov.	Other Topics and Presentations
08 Nov.	
13 Nov.	Greene: Rea & Balashov
15 Nov.	Stokes, Helmholtz on the Foundations of Geometry
20 Nov.	McKaughan, The Hole Argument and Substantivalism
22 Nov.	Thanksgiving Holiday
27 Nov.	Slaney, Reichenbach and Friedman
29 Nov.	Biddle, Reichenbach, Einstein, Particle Indistinguishability, and Covariance
04 Dec.	" " " "
06 Dec.	Fogel, Singularities in General Relativity
11 Dec.	Keller, TBA
17 Dec.	Term Papers Due (Mon., 5:00 PM)

Sklar, ch. V.