The main text for this course is Paul J. Nahin’s *Time Machines: Time Travel in Physics, Metaphysics, and Science Fiction*, second edition (Springer-Verlag, 2003). Other readings can either be obtained via the internet or will be distributed in class.

The mark for the course will be based on one substantial research paper on any topic covered in the course (80%) and class participation (20%). Proposed paper topics must be submitted to me for approval. The paper is due at the end of the first week after the end of classes (that is, by Friday, April 23).

**Schedule of Readings**

8 January  Introductory Meeting

15 Jan.  The Possibility of Time Travel


“Killing baby Suzy” by Ira Kiourti in *Philosophical Studies* 139 (2008): 343-52. “What time travelers may be able to do” by Peter Vranas, available on his web site.


22 Jan.  Can a Time Traveler Change the Past?


29 Jan.  Causal Loops


5 February  The Elements of Special Relativity

**Required Reading:** Nahin, Technical Notes 1-3.
12 February  Special Relativity and Time Travel to the Future

**Required Reading:** Nahin, Technical Notes 4-5.


19 Feb.  MID-TERM BREAK

26 Feb.  MID-TERM BREAK

5 March  Special Relativity and Time Travel to the Past


12 March  General Relativity and Closed Timelike Curves


19 March General Relativity and Wormholes


26 March Back to the Grandfather “Paradox”: Consistency Constraints


2 April Good Friday, University Closed

9 April TBA