Revised Schedule (Subject to change over the semester. The reading assignments should be completed by the date on which they appear.

1	Tues 1/28. *Part I: Entropy and Information* *Carnot and Heat Engines*. Background: [F93] Chap 3.	Thurs 1/30. *Formulations of the 2nd Law*. [F93] Chap 4.
2	2/4. *Thermodynamic Entropy*. [F93] Chap 5.	2/6. *Thermodynamic Entropy, cont.* hw1 due.
3	2/11. *Maxwell's Demon*. [EN98] pp. 435-464.	2/13. *Maxwell's Demon, cont.*
4	2/18. *Boltzmann Entropy*. [G01].	2/20. *Boltzmann Entropy, cont.* hw2 due.
5	2/25. *Shannon Information*. [T04].	2/27. *Demons and Information.* [EN99] pp. 1-20.
6	3/3. *Thermodynamics of Computation*. [B01].	3/5. *Part II: Computation and Spacetime* *Turing Machines*. [DM18]. hw3 due.
7	3/10. *Turing Machines, cont.*	3/12. Midterm
8	3/17. Spring Break	3/19. Spring Break
9	3/24. *Classical Spacetimes.* Paper 1 due.	3/26. *Relativistic Spacetimes.* hw4 due.
10	3/31. *Malament-Hogarth Spacetimes.* [EN93].	4/2. *Turing Machines in M-H Spacetimes.* [H94].
11	4/7. *Part III. Quantum Information* *Quantum Mechanics: Motivation.*	4/9. *Quantum Mechanics: Formalism.* [RP00] pp. 1-16. hw5 due.
12	4/14. *Qubits and Cryptography* [T08] pp. 1-13.	4/16. *Dense Coding and Teleportation* [T08] pp. 13-20; [RP00] pp. 17-19.
13	4/21. *Quantum Computation*. [T08] pp. 20-22; [RP00] pp. 19-23.	4/23. *Part IV: Info-Theoretic Physics* *Physics from Quantum Info*. [T08] pp. 38-45; [B04]. hw6 due.
14	4/28. *Physics from Quantum Information, cont.*	4/30. *Physics from Fisher Information*. [Fr99].
15	5/5. *Physics from Fisher Information, cont.*	5/7. *Overflow/Review.* Paper 2 due. hw7 due.
16	Final (date to be announced by Registrar)	