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Course web page: <http://einstein.ucsd.edu/manohar/ph225>
Course information such as problem sets, solutions, and errata will be posted here.

Course Schedule:

Lectures MW11:00–12:20 MHA 2623

Grading: Problem Sets and Final Project

Course Texts:

J. Hartle, *Gravity*, Addison-Wesley
S. Carroll, *Spacetime and Geometry*, Addison-Wesley
S. Weinberg, *Gravitation and Cosmology*, Wiley

Other References:

S. Carroll, *Lecture Notes on General Relativity*, [arXiv:gr-qc/9712019](https://arxiv.org/abs/gr-qc/9712019)
S. Hawking and G. Ellis, *The Large Scale Structure of Spacetime*, Cambridge
M. Hobson, G. Efstathiou, and A. Lasenby, *General Relativity*, Cambridge
C. Misner, K. Thorne, and J. Wheeler, *Gravitation*, Freeman
B. Schutz, *A first course in General Relativity*, Cambridge
R. Wald, *Gravitation*, Chicago

Syllabus:

Newtonian Mechanics and Gravitation
Special Relativity
Equivalence Principle
Curved Manifolds
Einstein Equations
Schwarzschild Solution
Tests of GR
Black Holes
Gravitational Radiation
Relativistic Stars
FRW Cosmology