PHYS 4390: General Relativity (fall or winter)

Calendar description: This is an advanced course introducing Einstein's theory of general relativity and the curvature of space-time. Topics shall include manifolds, Riemannian geometry, Einstein's equations, and applications to cosmology and black holes.

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Overview

Prerequisites

PHYS 1500 Introduction to Modern Physics (indirectly)

PHYS 3201 Mathematical Methods in Physics II

PHYS 3300 Classical Mechanics

Dependent courses

Student Outcomes

Curriculum

Suggested texts

Notes to the instructor