

## Physics 494

Special Topics: General Relativity  
Class Number: 18075  
North Dakota State University  
Spring 2007

**Instructor:** Dr. Terry Pilling  
**Email:** terry.pilling@ndsu.edu  
**Office:** 201 South Engineering  
**Telephone:** 231-5780

**Description:** This is a 3 credit course on Einstein's general theory of relativity and gravitation.

**Course Objectives:** Students completing Physics 494 should have an introductory understanding of Einstein's theory, be able to read articles in the literature which use this theory, and be able to solve gravitation and cosmology problems based on the theory.

**Text:** *Lecture Notes on General Relativity* by Sean Carroll, which can be found on the web at <http://xxx.lanl.gov/abs/gr-qc/9712019>

**Lectures:** Meeting times to be arranged so as to maximize attendance.

**Assignments:** There will be a homework assignment every couple of weeks based on the text material.

**Exams:** Since the problems in a course such as this are quite complicated and time consuming, there will be no midterms or final. The final grade will be based on the homework problems.

**Office Hours:** You can come and talk to me at any time I am in my office.