FALL 2018
APM 523
Optimization

Instructor:  Dr. H. D. Mittelmann

Time:  3:00-4:15 Monday & Wednesday

Location:  WXLRA306

Class #:  85678

Credit Hours:  3

Topics: The important area of optimization will be covered with a strong emphasis on practical algorithms. The course requires only fundamental undergraduate background in linear algebra and calculus. It is of interest to students in mathematics, statistics, the sciences, engineering and business. Students will do several computer projects. In addition to material in the book, selected topics such as mixed-integer and global optimization will be covered.

The main topic is unconstrained and constrained nonlinear optimization, including interior point methods for linear programming. This class allows to get an overview of both continuous and discrete optimization in a single semester learning both fundamental theoretical results as well as state of the art algorithms including software.

See the instructor’s webpage: http://plato.asu.edu/guide.html

Prerequisites: degree- or nondegree seeking graduate student, advanced undergraduate with approval of instructor