APM 520 – Advanced Numerical Linear Algebra (Spring 2021)

Instructor: Dr. Malena Espanol
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Time: Monday and Wednesday at 10:45am-12:00pm
Location: Zoom

The purpose of this course is to introduce students to topics needed for the solution of ill-posed inverse problems, starting with the solution of ill-posed linear systems and moving to nonlinear problems. Examples where such problems occur include image restoration from blurred and contaminated images and nonlinear parameter estimation in estimation of tumor parameters for EIT (Electrical Impedance Tomography). There will be no formal examinations in this class. Participation and homework will be required, with presentations in class and group class projects.