Mahmud Akelbek* (makelbek@weber.edu), Ogden, UT 84403. Research Projects in Numerical Analysis.

Course based undergraduate research project not only has meaningful positive impact on a larger number of students, but it also actively engage students with the learning process throughout the semester. Numerical Analysis course require students to have a solid knowledge on essential mathematics courses, like calculus and linear algebra. It also requires students using computer programming to solve wide range of applied mathematics and engineering problems. In this presentation, I will give a short description of numerical analysis course for Spring 2019 semester that we incorporated research projects. I will present a number of undergraduate research projects from this course. I will also discuss some of the challenges and future direction. (Received August 27, 2019)