CO 480 Week 11 Learning Goals

By the end of this week, students should be able to...

- State the Quadratic Reciprocity Theorem; the gem of arithmetic; the golden theorem.

- Be able to compute some values of the Legendre Symbol using the definition directly, theorems in the course or quadratic reciprocity.

- Discuss the influences in Gauss' childhood to becoming a mathematical superstar.

- Identify some of Gauss' research at the Carolinium and Göttingen.

- State and be able to use Wilson's Theorem.

- Analyze the effect of Napoleon on Gauss' life.

- Describe Gauss' lecturing style.

- Bask in the awesomeness of the proof of the Quadratic Reciprocity.