

1067-C5-543

Stuart Boersma* (boersmas@cwu.edu), Department of Mathematics, Central Washington University, 400 E University Way, Ellensburg, WA 98926. *Student Codebooks: An in-depth writing assignment.*

In order to help students synthesize mathematical ideas through writing, a major part of students' grades in an upper-level cryptology course are determined by the creation of a five chapter *Codebook*. Each chapter of the *Codebook* contains 1) a description of a specific cipher that is being studied, 2) examples of enciphering and deciphering for that particular cipher, 3) a careful description of a cipher-text only attack, and 4) an illustration of such an attack. *Codebooks* were assessed on their organization, clarity, and correctness. Revisions were encouraged after initial instructor feedback. A complete description of this assignment will be presented along with examples of student work. (Received September 08, 2010)