

1046-D1-1859 **Annala R Kelly*** (akelly@rwu.edu), Roger Williams University 1 Old Ferry Road, Bristol, RI 02809. *Investigations with Private-key Ciphers*. Preliminary report.

My talk will discuss projects that can be assigned in the cryptology course for majors or non-majors. My students have worked on creating new private key ciphers by combining or creating two ciphers and describing the properties of the new code. The students have also worked on finding fixed points in some ciphers. For example, in the affine cipher, this project involves number theoretical calculations. (Received September 16, 2008)