

1116-F5-2026 **Violeta Vasilevska*** (violeta.vasilevska@uvu.edu), 800 W. University Parkway, Orem, UT 84058. *Math in action: solving crimes*. Preliminary report.

This presentation will demonstrate several applications of mathematics in forensic science. In particular, two projects will be presented: an application of Newton's Law of Cooling in estimating time of death and an application of graph theory in Fingerprint analysis. These projects were used during the Math Forensic Conference for high school students last summer, where they were very well received, but they can easily be adopted for use in college math classes as well. Additional math applications will also be mentioned such as applications in animation, mechanical engineering, origami and art. The presenter has been using these examples as short presentations in her Calculus class to excite the students with interesting applications that catch student attention and show them the usefulness of math and the value of having good math skills. (Received September 21, 2015)