NORTHERN ARIZONA UNIVERSITY
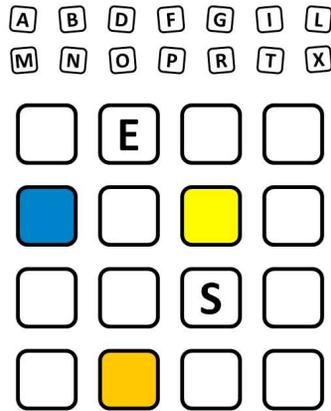
FAMUS: January 29, 2016

Friday **A**fternoon **M**ath **U**ndergrad **S**eminar meets on Fridays at 3:00-4:00pm in Room 164 of the Adel Math Building. Refreshments are always served!!

The mathematics of Boggle logic puzzles
Speaker: Dr. Dana C. Ernst (NAU)

Boggle (© Hasbro) is a popular word search game where players compete to find as many words as they can in a 4×4 grid of letters. On the other hand, a Boggle logic puzzle is the game of Boggle played in reverse. A list of words is given and you need to recreate the board. In this talk, we will discuss some of the mathematics behind Boggle logic puzzles. In particular, we will summarize some of the known results and highlight a few open problems.

EAST   EXAM
TAXED   MEAT
FIRST   POSTED
TANGS   BRIDE
BLOAT   AMONG

In the second half of FAMUS, I plan to discuss my path from hating mathematics as a child to falling in love with mathematics to eventually earning my PhD and becoming a professor of mathematics. I hope to share a bit about what I love about mathematics, as well as the joys and struggles of teaching.

ALL MATHEMATICS MAJORS ARE ENCOURAGED AND EXPECTED AND ENCOURAGED TO ATTEND