

# Math and Stat Colloquium

Tuesday, March 5

3:30-5 p.m. BUS 211

Refreshments will be served in the Animal Science Lounge at 3 p.m.

**Speaker:**

**Jim Cangelosi**

**Utah State University**



**“Leading Undergraduates to Develop Their Talents for Proving Theorems”**

**Abstract:** How do we teach our students to formulate conjectures and transform those conjectures into theorems? That is the question that will be addressed. Strategies for (1) how to create a classroom climate where thought processes are emphasized more than “correct answers,” (2) focusing on the epistemology of the institution of mathematics, (3) developing students’ skills for communicating in precise mathematical language, (4) curing students of the disease they caught from experiencing geometry classes with a “Statement-Reasoning/T-structured” algorithmic approach to “proofs,” (5) explicitly teaching the art of designing and then writing proofs, and (6) assessing students’ progress as they develop this relatively rare talent.