Topology Seminar at Texas State

<u>When</u>: 12:30-1:50, Friday, September 11, 2020

<u>Where</u>: Zoom   (click the word Zoom; passcode: 'manifolds')

<u>Speaker</u>: Dr. William Grilliette

Topic: *Connecting Branches of Mathematics – Category Theory, Redux*

<u>ABSTRACT</u>

This talk is aimed at a graduate and advanced undergraduate interested in starting to study category theory. The first part of the talk will give an overview of the basic definitions with illustrative examples to motivate connections and parallels between the branches of mathematics. The second part of the talk will highlight the speaker's current interest in lax functor and lax comma categories. Topics include the following: monoidal categories, enriched categories, and n-categories.