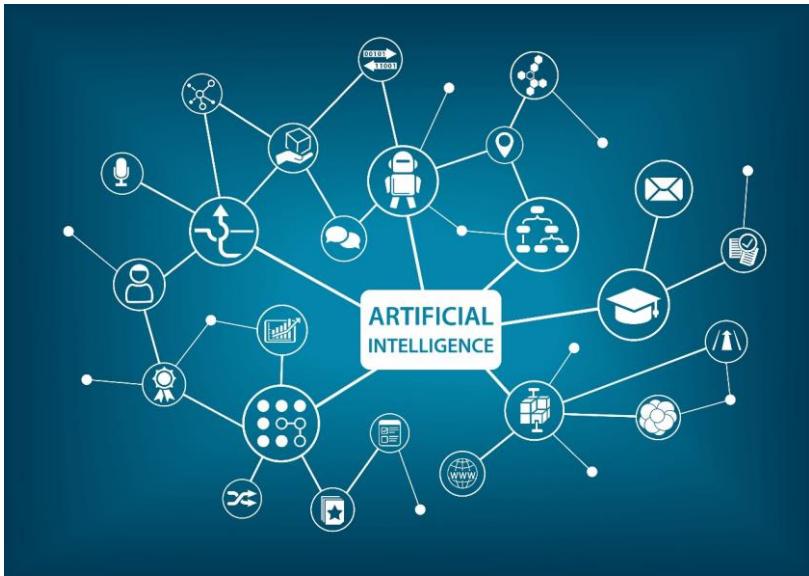# INTERDISCIPLINARY STEM SEMINAR SERIES
(Science Technology Engineering Mathematics)

Data, Science and Simulation

Wednesday, September 26th, Reuter Center, Room 206
4:30 PM to 6:00 PM

Speaker:
Kevin Sanft Ph.D.,

Assistant Professor Computer Science, UNC-Asheville

Computer simulation helps us explore the universe, from microscopic scales inside individual cells in biology to light year scales in astronomy. These *numerical* experiments can be conducted even when physical experimentation is impossible. Furthermore, advances in big data analytics, artificial intelligence and machine learning have the potential to revolutionize many areas in science and industry. This talk will describe how "data science", statistics, mathematical modeling and computer simulation provide a versatile toolbox that can be applied to a variety of domains. Tools will be introduced using examples from the speaker's recent research on topics ranging from computational biochemistry to sports analytics.