Jacob Duncan*, 751 E. Howard St, Winona, MN 55987. Mathematics for Sustainability. Some of the biggest challenges facing humanity today stem from issues surrounding environmental degradation and social injustice, and the need to address the ramifications of these issues from a STEM perspective is greater than ever. This talk centers around the course Mathematics for Sustainability I recently developed at St. Mary's College, Notre Dame and currently teach at Winona State University. This course develops and applies mathematical concepts and tools to quantitatively explore real-world, topical problems pertaining to environmental and social sustainability. Topics are motivated by exciting hands-on experiences – experiments, demonstrations, outdoor data collection excursions – from relevant STEM fields. (Received September 20, 2018)