Mastery-Based Grading (MBG) is a learning modality that structures course material to emphasize time, flexibility, and student responsibility. It is a way for students to take ownership of their learning. Traditional number or letter grades are often replaced with "badge" grades representing mastery of a topic, progression towards mastery, or improvement needed. Final grades are calculated from a cumulative total of these badge grades. For a Precalculus class, certain adaptations were made to motivate students to be responsible for their learning and demonstrate preparedness before entering Calculus I. (Received September 15, 2020)