Ellen J Goldstein* (ellen.goldstein@bc.edu), Boston College, Department of Mathematics, Chestnut Hill, MA 02467. Calculus with Integrated Precalculus for Underprepared STEM Majors. Preliminary report.

For the past two years, I have been teaching a full-year differential calculus sequence that includes comprehensive precalculus instruction for underprepared students whose major requires a course in calculus. Following the structure of Laura Taalman’s Calculus with Integrated Precalculus, the course focuses on calculus concepts, which are used as motivation to learn precalculus and hone algebra skills. After transitioning from a lecture format to a flipped format, and then to a combination of the two, I have found a balance that meets the diverse needs of this particular student group and adequately prepares them to move on to a standard integral calculus course. (Received September 13, 2016)