SCIENCE, TECH, ENGR, AND MATH (STEM)

STEM 1120  INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING (3 credits)
This course embraces the visual arts to introduce students to the foundational elements of mathematical and computational thinking. Visual patterns form the basis for explorations in arithmetic and geometric sequences, from which algebraic functions and corresponding functions in computer programs are reasoned.

Distribution: Math

STEM 2800  SCIENCE EXPERIMENTATION AND ENGINEERING DESIGN (4 credits)
Science Experimentation and Engineering Design (SEED) is a general science course that introduces STEM (Science, Technology, Engineering, and Mathematics) concepts and their applications through student-developed experiments using high-altitude balloon platforms. The Scientific Method and Engineering Design Process are central to the students' experiences and work in this course, as the course models the interdisciplinary connectedness of academic fields. Students will study and work in active, experiential learning environments through all phases of the near-space experiments: conceptualization, design, launch, data analysis, and reporting. (Cross-listed with TED 2800).

Distribution: Natural/Physical Sci General Education lecture&lab