

B26 | STEM Social Innovation 6 03210/1706

This course is designed to introduce students to the individual as a vector of change in today's society. Through self-exploration of local social issues, the student will offer and formulate a strategy for promoting, changing, and engaging the public in an issue that needs attention. Students will be supported and encouraged to move from ideas to action within the semester timeframe. Throughout this course, students will research and identify a local, national, or global issue and devise and deploy an innovative strategy to effect a positive change. This course available as an encore for all students in the STEM middle schools.

M27 | STEM Engineering Innovations 7 21001/0207

This course immerses students in the real world challenges faced by today's engineers relevant to current themes in the workplace (ie. The Grand Challenges sponsored by the National Academies of Engineering). Students will explore and design a revolutionary product, scheme and/or process/product to enhance everyday lives. Whether it be a common tool or a theoretical part that will enhance space exploration or environmental cognizance, the student will design, build/forge/produce an artifact along with a full analyzation of its function and precision in application. This course available as an encore for all students in the STEM middle schools.

B28 | STEM Future Innovations 8 21001/1706

This course immerses the student in the surreal world of the authors of the 20th Century and their supposition of the 21st Century experience and the deep dive into their vision and the realities we experience today. This will enable students to explore how the future and its innovations will play out and exist in everyday lives. Students will explore the real world challenges faced today in comparison to those surmised by 20th century authors. Additionally, students will examine current realities in the sciences and societies and propose their own futurist world. This course is available as an encore for all students in the STEM middle schools.