

1154-G1-1658 **Shahrooz Moosavizadeh*** (smoosavizadeh@nsu.edu), Norfolk State University, Department of Mathematics, 700 Park Avenue, Norfolk, VA 23504. *Magnifying the Role of Mathematics in the World of Sciences in Math Courses.*

Mathematics is often viewed by students as a series of concepts and skills unrelated to their respective majors. The lack of adequate quantity and quality of applications presented in a typical math course may have greatly contributed to the existing disconnect. To remedy the problem, the Departments of Biology, Engineering, and Mathematics at Norfolk State University joined forces to create a section of college algebra for biology majors, as well as courses in calculus and differential equations curtailed to the needs of engineering majors. Establishing learning communities, to include the faculty in the mathematics department and its partner disciplines, formed the foundation for such initiatives. The applications in biology and engineering, as final project products, and their presentations in a few preselected math courses are the focus of this paper. The program, sponsored by the SUMMIT-P grant, includes hands-on applications, team-teaching, active learning strategies, and effective presentation formats. The proposed applications are not the usual textbook examples; they highlight the research expertise of the faculty and/or concepts in the upper-level courses. The program, in its fourth year, has generated much interests among both students and faculty alike. (Received September 16, 2019)