Student Learning Outcomes for Academic Programs

Dual/Joint A.S. / B.S. in Biotechnology with York College Catalog Year 2017-18

General Education Outcomes

1. Communicate effectively through written and oral forms
2. Use analytical reasoning to identify issues or problems and evaluate evidence in order to make informed decisions
3. Reason quantitatively as required in various fields of interest and in everyday life
4. Apply information management and digital technology skills useful for academic research and lifelong learning
5. Discipline specific outcomes: A robust general education is founded on the knowledge, concepts, methods and perspectives that students gain through study of the social sciences and history, the natural sciences, the arts and the humanities. These disciplinary studies stimulate intellectual inquiry, global awareness, and cultural and artistic appreciation; they equip students to make informed judgments and engage with life beyond the classroom.
    a. Apply concepts and perspectives from history or the social sciences to examine the formation of ideas, human behavior, social institutions, or social processes and to make informed judgments
    b. Apply concepts and methods of the natural and physical sciences to examine natural phenomena and to make informed decisions
    c. Apply aesthetic and intellectual criteria to examine or create works in the humanities and the arts and to make informed judgments

Program Outcomes

A. Demonstrate competency in the concepts and methods of the foundation science courses required for transfer to the junior year in Biotechnology at York College.
B. Demonstrate basic laboratory skills and good lab practice necessary for Biotechnology research
C. Utilize scientific methods to propose and test a working hypothesis
D. Demonstrate an understanding of ethics in science and responsible conduct of research while analyzing their results and writing lab reports
E. Work in teams of two to complete an honors project and make a presentation at the end of the class
F. Exhibit effective oral and written communication skills in in preparing and presenting a well-reasoned, professional quality technical report that compares data/evidence critically to support/refute different points of view on a topic