Sam Kane

Goal 1.3 Reflection

Analyze the Major Principles of Ecology and Evolution

Through the curriculum of Longwood’s Biology program, one of the three main pillars are Ecology and Evolution. To meet this goal, I took one course within the pillar, Biology 399 –Evolution and outside of the pillar I took Biology 309 – Plant Biology and Biology 473 – Biomechanics.

Biology 399 – Within Evolution we were tasked with the creation of a research paper encompassing one area of what causes evolution to occur. The topic I chose was extinction, as extinction events may lead to both the loss and creation of biodiversity, thus allowing for various evolutions to both be lost and arise over time.

Biology 309 – Within Plant Biology we completed a semester long research project on plants of our choice and specific drug treatments. The project I completed was “Interaction and Effects of Phenolic Acids on Early Stage Plant Growth”. This paper had a great deal to do with ecology, as it led to important outcomes in regard to various pesticide usage and their harmful effects when it came to the surrounding plants.

Biology 473 – Within Biomechanics, our semester long research project looked at the C-start technique in various age groups of Zebrafish, ranging from 1 years old to 3 years old. Our project was meant to be novel regarding Zebrafish, ultimately giving us a better understanding on the way the C-start technique works and how it varies amongst different age groups