

Teaching Philosophy



The exponential growth in the scientific field over the past 50 years has left many students struggling to keep up with the latest technology. With new discoveries being published daily both student and faculty may have difficulty in learning these new theories. In order for students to prepare for the global job market it is essential that students become familiar with contemporary scientific techniques.

To assist the students, I believe that an integrative approach to teaching coupling both laboratory and classroom experiences can be utilized to better conceptualize complex biological and chemical principles. Additionally, tools such as computer simulations can also be useful to demonstrate biochemical processes such as DNA transcription, DNA replication, and RNA translation. Also, in order to keep up with scientific expansion a teacher must not only draw from classic anthologies but also from current periodicals including journals and other scientific articles.

Advances in computing have allowed teaching to move to a multidimensional environment where both students and teachers can work both in person and interactively using tools such as the internet. Although many barriers to teaching are still present such as differing in student background and complex theories, I feel that by coupling mentorship with technology one can overcome these teaching barriers. I further believe that the use of all of these tools in an open environment such as a classroom will allow for students to better understand scientific principles.