Bioinformatics, genomics, and proteomics are rapidly advancing fields that integrate the tools and knowledge from biology, chemistry, computer science, mathematics, physics, and statistics in research at the intersection of the biological and informational sciences. Inspired by the enormous amount of biological data that are being generated from the sequencing of genomes, these new fields will help us pose and answer biological questions that have long been considered too complex to address. Research in genomics, proteomics, and bioinformatics will also significantly impact society affecting medicine, culture, economics, and politics.

The Bioinformatics, Genomics, and Proteomics curriculum involves faculty from the Biology, Chemistry, Computer Science, Mathematics/Statistics, and Physics departments and was designed to provide students with an understanding of these revolutionary new areas of investigation. Students interested in graduate work in bioinformatics, genomics, and proteomics should take the BiGP courses and their prerequisites. Interested students are also encouraged to participate in independent research with members of the advisory faculty as they explore the development of these new fields.