Bioinformatics Electives

Biology -

BIOL 3125 - Molecular Tools for Evolutionary and Population Biology
BIOL 3205 - General Microbiology Laboratory
BIOL 3210 - General and Pathogenic Microbiology
BIOL 3240 - Introduction to Cellular Neurobiology
BIOL 3310 - Comparative Vertebrate Morphology
BIOL 3315 - Comparative Vertebrate Morphology Laboratory
BIOL 3320 - Comparative Physiology
BIOL 3330 - Behavioral Neurobiology
BIOL 3340 - Introduction to Plant Biology
BIOL 3350 - Physiology of Plants
BIOL 3370 - Microbial Biology
BIOL 3410 - Ecology and Evolution
BIOL 3430 - Animal Behavior
BIOL 3470 - Conservation Biology
BIOL 3485 - Conservation Biology Field Lab
BIOL 3515 - Biological Chemistry Laboratory
BIOL 3520 - Biological Chemistry II
BIOL 3525 - Molecular Biology of DNA Lab
BIOL 3665 - Form, Function, and Adaptation in Animals

Updated 07/24/2024
BIOL 3960 - Special Topics in Biology
BIOL 4955 - Individual Research
BIOL 4965 - Independent Professional Internship
BIOL 4999 - Honors Thesis/Project
BIOL 5011 - Mathematical Biology I
BIOL 5120 - Gene Expression
BIOL 5210 - Cell Structure and Function
BIOL 5255 - Prokaryotic Genetics
BIOL 5275 - Microbial Diversity, Genomics and Evolution
BIOL 5425 - Advanced Ecology Lab
BIOL 5440 - Urban Ecology
BIOL 5455 - Desert Field Ecology
BIOL 5460 - Plant Ecology in a Changing World
BIOL 5480 - Entomology
BIOL 5485 - Entomology Laboratory
BIOL 5495 - Biophysical Ecology
BIOL 5510 - Genes, Development, and Evolution
BIOL 5570 - Ecology and Evolution of Parasites and Pathogens
BIOL 5575 - Ecology and Evolution of Parasites and Pathogens Lab
BIOL 5665 - Computational Paleobiology
BIOL 5910 - Mathematical Models in Biology
BIOL 5920 - Advanced Eukaryotic Genetics

Updated 07/24/2024
BIOL 5960 - Advanced Special Topics in Biology

Math -

MATH 2210 - Calculus III
MATH 2280 - Introduction to Differential Equations
MATH 2281 - Enhanced Introduction to Differential Equations
MATH 4600 - Mathematics in Physiology and Medicine
MATH 5010 - Introduction to Probability
MATH 5040 - Stochastic Processes and Simulation I
MATH 5050 - Stochastic Processes and Simulation II
MATH 5075 - Time Series Analysis
MATH 5080 - Statistical Inference I
MATH 5090 - Statistical Inference II
MATH 5110 - Mathematical Biology I
MATH 5410 - Introduction to Ordinary Differential Equations
MATH 5600 - Survey of Numerical Analysis
MATH 5610 - Introduction to Numerical Analysis I
MATH 5770 - Introduction to Optimization

*Only one of the following courses can be used to fulfill Electives Requirements: MATH 2280 OR MATH 2281

Mining Engineering –

MG EN 5530 - Computational Intelligence

Updated 07/24/2024