CMDA Major Requirements
Biological Sciences Option

Students take either the Integrated Path or the Traditional Path

CMDA electives include the following:
CMDA 4664 Computational Intensive Stochastic Modeling
CS 3824 Intro to Computational Biology and Bioinformatics
MATH 4454 Applied Mathematical Modeling
STAT 4364 Introduction to Statistical Genomics

BIOL/SYSB electives include the following:
SYSB 3035 Systems Biology of Genes and Proteins (4 credits)
SYSB 3036 Systems Biology of Genes and Proteins (4 credits)
SYSB 3114 Network Dynamics and Cell Physiology (4 credits)
SYSB 3116 Network Dynamics and Cell Physiology (4 credits)
BIOL 4004 Freshwater Ecology (4 credits)
BIOL 4134 Evolutionary Genetics
BIOL 4564 Infectious Disease Ecology
BIOL 4114 Global Change Ecology
BIOL 4624 Microbial Genetics
BIOL 4664 Virology
BIOL 4874 Cancer Biology

At most 1 Undergraduate Research course may be counted.

CMDA 4864 (CMDA Capstone) requires the prerequisite of CMDA 3605, 3634, and 3654. Students are strongly encouraged to also take CMDA 3606 and 4654 before the CMDA Capstone.

https://data.science.vt.edu/programs/cmda.html