CMDA Major Requirements
Physics Option

Freshman

PHYS 2305 Foundations of Physics
PHYS 2306 Foundations of Physics
CS 1114 Intro to Software Design

Sophomore

Pre: MATH 1226
PHYS 2306 Foundations of Physics
CS 2114 Software Design & Data Structures
PHYS 3324 Modern Physics
PHYS 4755 Intro to Comp. Physics
PHYS 4756 Intro to Comp. Physics

Junior

Pre: MATH 1226
CMDA 2005 Integrated Quantitative Science I
MATH 1225 Calculus of a Single Variable I
MATH 1226 Calculus of a Single Variable II
CMDA 2006 Integrated Quantitative Science II
MATH 2114 Intro to Linear Algebra

Senior

CMDA 3634 CS Foundations of CMDA
CMDA 3605 Math Modeling I
CMDA 3606 Math Modeling II
CMDA 4654 Intermediate Data Analytics & ML
CMDA 4864 CMDA Capstone Project

Students take either the Integrated Path or the Traditional Path

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.

+ 15 credits of Physics electives

www.ais.science.vt.edu/programs/cmda.html