CMDA Major Requirements
Geosciences Option

Pre: MATH 1225

Freshman
GEOS 1104: Intro Lab
GEOS 1004
Earth Science: Our Past, Present, & Future
MATH 1225
Calculus of a Single Variable I

Sophomore
GEOS 3024
Comp Methods In the Geosciences
CS 2114
Software Design & Data Structures
MATH 1226
Calculus of a Single Variable II

GEOS 3204
Sedimentology – Stratigraphy
GEOS 3404
Elements of Structural Geology

MATH 2114
Intro to Linear Algebra

CMDA 2005
Integrated Quantitative Science I
CMDA 2006
Integrated Quantitative Science II

Junior
CMDA 3634
CS Foundations of CMDA
CMDA 3605
Math Modeling I
CMDA 3606
Math Modeling II
CMDA 3654
Intro Data Analytics & Visualization

CMDA 4864
CMDA Capstone Project

+ 3 restricted electives
Must include at least one experiential learning class (marked with *)
GEOS 3204* or 3404* (if not taken for rqmt)
GEOS 3034, 3104*, 4084, 4124, 4164*, 4174, 4354*, 4804*, 4924*

Senior
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://www.science.vt.edu/academics/programs/cmda.html