MATH 1225  
Calculus of a Single Variable I  
**Integrated Path**

Traditional Path

+ 3 restricted electives

Must include at least one experiential learning class (marked with *)

GEOS 3204* or 3404* (if not taken for reqmt)

GEOS 3034, 3104*, 4084, 4124, 4164*, 4174, 4354*, 4804*, 4924*

GEOS 1004  
Earth Science: Our Past, Present, & Future

GEOS 3024  
Comp Methods In the Geosciences

GEOS 1014  
Evolution of the Earth-Life System

CS 2064  
Intermediate Prog in Python

CS 2114  
Software Design & Data Structures

Pre: MATH 1225

GEOS 3204  
Sedimentology – Stratigraphy

GEOS 3404  
Elements of Structural Geology

CS 1064  
Intro to Programming in Python

MATH 1225  
Calculus of a Single Variable I

CMDA 1634  
Discovering CMDA

First Year Experience course

MATH 1226  
Calculus of a Single Variable II

STAT 3006  
Stat Methods II

STAT 3104  
Probability and Distributions

MATH 2204  Intro to Multivariable Calc

CMDA 2005  
Integrated Quantitative Science I

MATH 2114  Intro to Linear Algebra

CMDA 2006  
Integrated Quantitative Science II

MATH 2214  Intro to Differential Eqns

CMDA 2007  
Integrated Quantitative Science III

STAT 3005  
Stat Methods I

STAT 3106  
Stat Methods II

STAT 3104  Probability and Distributions

MATH 2214  
Intro to Differential Eqns

CMDA 3605  
Math Modeling I

CMDA 3606  
Math Modeling II

CMDA 3654  
Intro Data Analytics & Visualization

CMDA 4654  
Intermediate Data Analytics & ML

CMDA 4864  
CMDA Capstone Project

CMDA Major Requirements

Geosciences Option

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