

Freshman

Sophomore

Junior

Senior

GEOS 1104: Intro Lab

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

CS 1064
Intro to Programming in Python

MATH 1225
Calculus of a Single Variable I

CMDA 1634
Discovering CMDA
First Year Experience course

GEOS 1014
Evolution of the Earth-Life System

CS 2064
Intermediate Prog in Python

MATH 1226
Calculus of a Single Variable II

Pre: MATH 1225
GEOS 3024
Comp Methods In the Geosciences

CS 2114
Software Design & Data Structures

CMDA 2005
Integrated Quantitative Science I

MATH 2114
Intro to Linear Algebra

MATH 2204
Intro to Multivariable Calc

STAT 3005
Stat Methods I

CMDA 2006
Integrated Quantitative Science II

MATH 2214
Intro to Differential Eqns

STAT 3006
Stat Methods II

STAT 3104
Probability and Distributions

GEOS 3204
Sedimentology – Stratigraphy
or
GEOS 3404
Elements of Structural Geology

CMDA 3634
CS Foundations of CMDA

CMDA 3605
Math Modeling I

CMDA 3654
Intro Data Analytics & Visualization

+ 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*

CMDA 3606
Math Modeling II

CMDA 4654
Intermediate Data Analytics & ML

CMDA 4864
CMDA Capstone Project

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.



CMDA Major Requirements Geosciences Option

Integrated Path

Traditional Path

Students take either the Integrated Path or the Traditional Path