

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

*Strongly recommended
for incoming CMDA majors*

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

Integrated Path

*Students take either
the Integrated Path
or the Traditional Path*

Traditional Path

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