CMDA Major Requirements
Standard Option

Students take either the Integrated Path or the Traditional Path

Integrated Path:
- MATH 1225 Calculus of a Single Variable I
- MATH 1226 Calculus of a Single Variable II
- MATH 2114 Intro to Linear Algebra
- CMDA 2005 Integrated Quantitative Science I
- CMDA 2006 Integrated Quantitative Science II
- CMDA 3634 CS Foundations of CMDA
- CMDA 3654 Intro Data Analytics & Visualization
- CMDA 4654 Intermediate Data Analytics & ML
- CMDA 4864 CMDA Capstone Project

Traditional Path:
- MATH 2204 Intro to Multivariable Calc
- STAT 3005 Stat Methods I
- MATH 2214 Intro to Differential Eqns
- STAT 3006 Stat Methods II
- STAT 3104 Probability and Distributions
- CMDA 3605 Math Modeling I
- CMDA 3606 Math Modeling II

+ 12 credits of CMDA electives

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.

Weak prerequisite:
- CS 1114 Intro to Software Design
- CS 2114 Software Design & Data Structures