CMDA Major Requirements

Economics Option

Students take either the Integrated Path or the Traditional Path

Integrated Path

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

Freshman

CS 1064 Intro to Programming

CS 2064 Intermediate Prog in Python

CS 2114 Software Design & Data Structures

CMDA 1634 Discovering CMDA

Strongly recommended for incoming CMDA majors

Sophomore

CMDA 2005 Integrated Quantitative Science I

MATH 1225 Calculus of a Single Variable I

MATH 2114 Intro to Linear Algebra

MATH 2204 Intro to Multivariable Calc

STAT 3005 Stat Methods I

Sophomore

MATH 1226 Calculus of a Single Variable II

CMDA 2006 Integrated Quantitative Science II

MATH 2214 Intro to Differential Eqns

STAT 3006 Stat Methods II

STAT 3104 Probability and Distributions

Junior

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 3605 Math Modeling I

ECON 2005 Principles of Economics

ECON 2006 Principles of Economics

ECON 2005 Principles of Economics

ECON 4314 Econometrics

ECON 4304 Microeconomic Theory

ECON 3005 Stat Methods I

ECON 3006 Stat Methods II

ECON 3104 Probability and Distributions

ECON 3204 Macroeconomic Theory

ECON 4314 Big Data Economics

ECON 4304 Microeconomic Theory

ECON 3104 Probability and Distributions

ECON 4304 Microeconomic Theory

Senior

+ 6 credits of electives
(3 credits of ECON, 3 credits of ECON/CMDA)

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

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.