MATH 1225  Calculus of a Single Variable I

MATH 1226  Calculus of a Single Variable II

MATH 2204  Intro to Multivariable Calc

STAT 3006  Stat Methods II

STAT 3104  Probability and Distributions

MATH 2114  Intro to Linear Algebra

MATH 2214  Intro to Differential Eqns

STAT 3005  Stat Methods I

STAT 3104  Probability and Distributions

ECON 2005  Principles of Economics

ECON 2006  Principles of Economics

ECON 3004  Microeconomic Theory

ECON 3204  Macroeconomic Theory

ECON 4304  Econometrics

ECON 4314  Big Data Economics

ECON 4304  Econometrics

CMDA 3604  Intro Data Analytics & Visualization

CMDA 4654  Intermediate Data Analytics & ML

CMDA 4864  CMDA Capstone Project

Students take either the Integrated Path or the Traditional Path

CMDA Major Requirements
Economics Option

Freshman

First Year Experience course

CS 1064  Intro to Programming in Python

CS 2064  Intermediate Prog in Python

CMDA 1634  Discovering CMDA

MATH 1225  Calculus of a Single Variable I

MATH 1226  Calculus of a Single Variable II

Sophomore

CMDA 2005  Integrated Quantitative Science I

CMDA 3634  CS Foundations of CMDA

CMDA 2006  Integrated Quantitative Science II

CS 2064  Intermediate Prog in Python

CMDA 2006  Integrated Quantitative Science II

MATH 2114  Intro to Linear Algebra

CS 2114  Software Design & Data Structures

CMDA 2005  Integrated Quantitative Science I

Math Modeling I

Integrated Path

Traditional Path

CMDA 2006  Integrated Quantitative Science II

Students take either the Integrated Path or the Traditional Path

MATH 2204  Intro to Multivariable Calc

STAT 3005  Stat Methods I

CMDA 3605  Math Modeling I

CMDA 3605  Math Modeling I

CMDA 3606  Math Modeling II

CMDA 3606  Math Modeling II

CMDA 3654  Intro Data Analytics & Visualization

CMDA 3654  Intro Data Analytics & Visualization

CMDA 3654  Intro Data Analytics & Visualization

CMDA 4654  Intermediate Data Analytics & ML

ECON 2005  Principles of Economics

ECON 2006  Principles of Economics

ECON 3004  Microeconomic Theory

ECON 4304  Econometrics

ECON 4314  Big Data Economics

ECON 4304  Econometrics

ECON 4314  Big Data Economics

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

Junior

ECON 2005  Principles of Economics

ECON 2006  Principles of Economics

ECON 3004  Microeconomic Theory

ECON 3204  Macroeconomic Theory

ECON 4304  Econometrics

ECON 4314  Big Data Economics

ECON 4304  Econometrics

CMDA 3605  Math Modeling I

CMDA 3606  Math Modeling II

CMDA 3654  Intro Data Analytics & Visualization

CMDA 4654  Intermediate Data Analytics & ML

ECON 3104  Microeconomic Theory

ECON 3204  Macroeconomic Theory

ECON 4304  Econometrics

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

Senior

CMDA 3605  Math Modeling I

CMDA 3606  Math Modeling II

CMDA 3654  Intro Data Analytics & Visualization

CMDA 4654  Intermediate Data Analytics & ML

ECON 4304  Econometrics

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

https://data.science.vt.edu/programs/cmda.html

First Year Experience course

CMDA 2005  Integrated Quantitative Science I

CMDA 2006  Integrated Quantitative Science II

Students take either the Integrated Path or the Traditional Path

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 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.