CMDA Major Requirements
Physics Option

**CMDA 3605**
Math Modeling I

**CMDA 3606**
Math Modeling II

**CMDA 4654**
Intermediate Data Analytics & ML

**CMDA 4854**
CMDA Capstone Project

- **MATH 1225**
Calculus of a Single Variable I

- **MATH 1226**
Calculus of a Single Variable II

- **MATH 2214**
Intro to Linear Algebra

- **MATH 2204**
Intro to Multivariable Calc

- **STAT 3005**
Stat Methods I

- **STAT 3006**
Stat Methods II

- **STAT 3104**
Probability and Distributions

- **PHYS 2305**
Foundations of Physics

- **PHYS 2306**
Foundations of Physics

- **PHYS 3324**
Modern Physics

- **CS 1114**
Intro to Software Design

- **CS 2114**
Software Design & Data Structures

- **MATH 2114**
Intro to Differential Eqns

- **CS 1114**
Intro to Software Design

- **CS 2114**
Software Design & Data Structures

**CMDA 3634**
CS Foundations of CMDA

**CMDA 2005**
Integrated Quantitative Science I

**CMDA 2006**
Integrated Quantitative Science II

**PRE: MATH 1226**

**Co: MATH 2214**

**PRE: PHYS 4455**
Phys 4756 Intro to Comp. Physics

**PHYS 4755**
Intro to Comp. Physics

**PHYS 3324**
Modern Physics

**PHYS 2305**
Foundations of Physics

**Pre: MATH 1226**

**+ 15 credits of Physics electives**

**CMDA 3605 (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.