CMDA Major Requirements
Physics Option

**Freshman**
- PHYS 2305 Foundations of Physics
- CS 1114 Intro to Software Design
- MATH 1225 Calculus of a Single Variable I

**Sophomore**
- PHYS 2306 Foundations of Physics
- CS 2114 Software Design & Data Structures
- MATH 1226 Calculus of a Single Variable II
- MATH 2214 Intro to Linear Algebra
- CMDA 2005 Integrated Quantitative Science I
- CMDA 2006 Integrated Quantitative Science II

**Junior**
- PHYS 3324 Modern Physics
- CS 2114 Software Design & Data Structures
- MATH 2114 Intro to Linear Algebra
- MATH 2214 Intro to Differential Eqns
- STAT 3005 Stat Methods I
- STAT 3006 Stat Methods II
- STAT 3014 Probability and Distributions

**Senior**
- PHYS 4755 Intro to Comp. Physics
- CS Foundamentals of CMDA
- MATH 2204 Intro to Multivariable Calc
- CMDA 3605 Math Modeling I
- CMDA 3606 Math Modeling II
- CMDA 4654 Intermediate Data Analytics & ML
- CMDA 4864 CMDA Capstone

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.

+ 15 credits of Physics electives