Name	
Advisor	

## BS in Applied and Computational Mathematics Mathematics of Data Science and Machine Learning Option - 120 Credits Required



A minimum of 33 credits must be taken at WCSU.

A minimum cumulative GPA of 2.0 is required.

Complete a foreign language at an elementary II level or above. Students who have completed three years of language in high school with at least a 'C' average have satisfied this requirement. Consult your advisor. (IC)

## Part 1: General Education Competency Requirements

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PHI 227 MAT 150 MAT 453 WRT 101 PHI 227 MAT 453 MAT 181	MAT 182	
	MENTS (7 S.H.)	
J. C <i>ORE</i>	MAT 322 Probability (C or better) MAT 332 Appl Linear Alg and Math of Machine Learning (C or better) MAT 380 Math Modeling with Symbolic and Scientific Computations (C or better) MAT 383 Introduction to Mathematical Analysis MAT 453 Senior Sem.(CE,W3) or SIS w/Project or Senior Thesis or Internship MATHEMATICS OF DATA SCIENCE AND MACHINE LEARNING OPTION	
	MAT 422 Statistics for Data/Actuarial Science and Machine Learning MAT 470 Applications of Machine Learning and Wavelets Select One of the following: MAT 468 Partial Differential Equations (PDEs), MAT 469 Numerical Methods for Ordinary & Partial DEs CS 172 Intermediate Java Programming CS 205 Data Modeling and Database Design CS 250 Introduction to Data Structures, Algorithms and Complexity	
	PHI 227 MAT 150 MAT 453 WRT 101 PHI 227 MAT 453 MAT 453 MAT 181  ling Cognates	MAT 150 MAT 453 WRT 101 PH1 227 MAT 453 MAT 181 MAT 182  Ling Cognates  MAT 822 Probability (C or better) MAT 332 Appl Linear Alg and Math of Machine Learning (C or better) MAT 380 Math Modeling with Symbolic and Scientific Computations (C or better) MAT 383 Introduction to Mathematical Analysis MAT 453 Senior Sem.(CE,W3) or SIS w/Project or Senior Thesis or Internship MATHEMATICS OF DATA SCIENCE AND MACHINE LEARNING OPTION MAT 422 Statistics for Data/Actuarial Science and Machine Learning MAT 470 Applications of Machine Learning and Wavelets Select One of the following: MAT 468 Partial Differential Equations (PDEs), MAT 469 Numerical Methods for Ordinary & Partial DEs CS 172 Intermediate Java Programming CS 205 Data Modeling and Database Design CS 250 Introduction to Data Structures,