## MINOR IN APPLIED MATHEMATICS AND STATISTICS

Sample Programs (version Aug 5, 2021)

The following sample programs satisfy the requirements for the Minor in Applied Mathematics and Statistics. These are meant to be illustrative, not prescriptive. The number of credits follows.

1. Stu	dent with ir	nterest in data science	
	110.202	Calculus III	4
	553.291	Linear Algebra & Differential Equations	4
		Probability and Statistics	4
		Introduction to Data Science	4
		Applied Statistics and Data Analysis	4
		,	
2. Stu		iterest in econometrics:	
		Linear Algebra & Differential Equations	4
		Introduction to Probability	4
		Introduction to Statistics	4
	553.488	Computing for Applied Mathematics	3
	180.334	Econometrics (Q)	3
3. Stu	dent majori	ng in electrical engineering:	
		Linear Algebra & Differential Equations	4
		Introduction to Probability	4
		Introduction to Statistics	4
		Dynamical Systems	4
		Mathematical Image Analysis	3
4 Stu	dent maiori	ng in computer science:	
T. 5tu		Linear Algebra & Differential Equations	4
		Numerical Linear Algebra	4
		Cryptology and Coding	4
		Graph Theory	4
		Data Structures (Q)	3
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5. Stu		sted in business applications:	
		Linear Algebra & Differential Equations	4
		Probability and Statistics	4
		Applied Statistics and Data Analysis	4
		Introduction to Optimization	4
	553.442	Investment Science	4
6. Stu	dent (engin	eering) interested in Operations Research and Consulting:	
		Linear Algebra & Differential Equations	4
		Probability and Statistics	4
		Introduction to Optimization	4
		Mathematical Modeling and Consulting	4
		Numerical Linear Algebra	4
7 Dro	medical stu	dent, with an interest in medical statistics:	
7.110		Linear Algebra & Differential Equations	4
		Introduction to Probability	4
		Introduction to Probability	4
			3
		Bayesian Statistics	5 4
	555.413	Applied Statistics and Data Analysis	4
8. Stu		sted in finance:	
	553.291	Linear Algebra & Differential Equations	4
		Introduction to Probability	4
	553.430	Introduction to Statistics	4

553.444 Introduction to Financial Derivatives	4
553.445 Interest Rate and Credit Derivatives	4
553.488 Computing for Applied Mathematics	3