

Master of Science Program in Statistics

Research Focus

- Sample Survey
- Bayesian Statistics
- Optimal Design
- Categorical Analysis
- Biostatistics

Structure of the Program

1. Credit Requirements *

Requirements	Option 1.1	Option 1.2	Option 2.1
Coursework	-	24	30
- Core Courses	-	12	12
- Electives	-	12	18
Required Non-credit Courses	4	4	4
Thesis	36	12	-
Independent Study	-	-	6
Total	36	36	36

* Minimum credits required

2. Core Courses

Requirements	Option 1.1		Option 1.2		Option 2.1	
	Course No.	Cr.	Course No.	Cr.	Course No.	Cr.
Theory of Probability	-	-	255531	3	255531	3
Theory of Inferential Statistics	-	-	255532	3	255532	3
Sampling Techniques and Applications	-	-	255552	3	255552	3
Experimental Designs	-	-	255562	3	255562	3
Total	-	-	4	12	4	12

3. Electives

Requirements	Option 1.1		Option 1.2		Option 2.1	
	Course No.	Cr.	Course No.	Cr.	Course No.	Cr.
Regression Analysis and Applications	-	-	255524	3	255524	3
Applied Multivariate Analysis	-	-	255525	3	255525	3
Statistical Methods for Quality Improvement	-	-	255526	3	255526	3
Statistical Forecast and Applications	-	-	255527	3	255527	3
Nonparametric Statistics and Applications	-	-	255528	3	255528	3
Linear Models	-	-	255533	3	255533	3
Stochastic Processes	-	-	255534	3	255534	3
Bayesian Statistics	-	-	255535	3	255535	3
Categorical Data Analysis	-	-	255536	3	255536	3
Decision Theory	-	-	255537	3	255537	3
Statistical Methods in Epidemiology	-	-	255541	3	255541	3
Statistical Methods in Clinical Trials	-	-	255542	3	255542	3
Survival Analysis	-	-	255543	3	255543	3
Response Surface Methodology	-	-	255563	3	255563	3
Operations Research	-	-	255571	3	255571	3
Linear Programming and Integer Programming	-	-	255572	3	255572	3
Inventory Control	-	-	255573	3	255573	3
Game Theory	-	-	255574	3	255574	3
Queuing Theory and Applications	-	-	255575	3	255575	3
Statistical Simulation	-	-	255576	3	255576	3
Special Topics in Statistics 1	-	-	255581	3	255581	3
Special Topics in Statistics 2	-	-	255582	3	255582	3
Special Topics in Operations Research	-	-	255583	3	255583	3
Special Topics in Statistical Research	-	-	255584	3	255584	3
Special Topics in Biostatistics	-	-	255585	3	255585	3
Total	-	-	≥4	≥12	≥6	≥18

4. Required Non-credit Courses

Requirements	Option 1.1		Option 1.2		Option 2.1	
	Course No.	Cr.	Course No.	Cr.	Course No.	Cr.
Research Methodology in Science and Technology	255511	3	255511	3	255511	3
Seminar	255586	1	255586	1	255586	1
Total	2	4	2	4	2	4

5. Thesis/Independent Study Credit Requirements

Requirements	Option 1.1		Option 1.2		Option 2.1	
	Course No.	Cr.	Course No.	Cr.	Course No.	Cr.
Thesis 1, Option 1.1	255593	9	-	-	-	-
Thesis 2, Option 1.1	255594	9	-	-	-	-
Thesis 3, Option 1.1	255595	9	-	-	-	-
Thesis 4, Option 1.1	255596	9	-	-	-	-
Thesis 1, Option 1.2	-	-	255591	3	-	-
Thesis 2, Option 1.2	-	-	255592	9	-	-
Independent Study	-	-	-	-	255587	6
Total	4	36	2	12	1	6