STATISTICS (M.S.)

For details about this program, including program description, admission requirements, and contact information, click here (https://www.montclair.edu/graduate/programs-of-study/statistics-ms/).

Program Requirements

Code	Title	Credits
Statistics Core		
STAT 532	Fundamentals of Statistics	3
STAT 534	Statistical Computing	3
STAT 536	Statistical Theory	3
STAT 537	Design and Analysis of Experiments	3
STAT 538	Regression Methods	3
Statistics Electives		
Select one of the following:		3
STAT 640	Biostatistics: Categorical Data Analysis	
STAT 641	Biostatistics: Clinical Trials and Survival Analysis	
STAT 646	Multivariate Analysis	
STAT 648	Advanced Statistical Methods	
Select three courses from the list below (one of the three may be from Applied Mathematics or Computer Science).		9
Culminating Experience		
Select one of the following options:		3
Thesis Option		
STAT 698	Master's Thesis	
Submit the completed Thesis original and one copy to the Graduate Office. See Thesis Guidelines for details.		
Capstone Option		
STAT 697	Capstone Experience	
Total Credits		**30**

Electives

Code	Title	Credits
AMAT 530	Scientific and Numerical Computing I	3
AMAT 532	Applied Linear Algebra	3
AMAT 534	Data-Driven Modeling and Computation	3
AMAT 536	Applied Probability and Stochastic Processes	3
AMAT 542	Methods of Applied Mathematics	3
AMAT 544	Applied Differential Equations	3
AMAT 546	Mathematical Biology	3
AMAT 548	Nonlinear Dynamics	3
CSIT 515	Software Engineering	3
CSIT 531	Robotics	3
CSIT 535	Human-Computer Interaction (HCI)	3
CSIT 555	Database Systems	3
CSIT 598	Machine Learning	3
STAT 545	Practicum in Statistics I	3
STAT 546	Non-Parametric Statistics	3
STAT 549	Sampling Techniques	3
STAT 561	Statistical Data Mining I	3
STAT 562	Statistical Data Mining II	3
STAT 570	Statistical Consulting	3
STAT 571	Time Series Analysis	3
STAT 572	Missing Data Analysis	3
STAT 577	Applied Longitudinal Data Analysis	3
STAT 595	Special Topics in Statistics	3
STAT 640	Biostatistics: Categorical Data Analysis	3
STAT 641	Biostatistics: Clinical Trials and Survival Analysis	3
STAT 645	Special Topics in Advanced Statistics	3
STAT 646	Multivariate Analysis	3
STAT 647	Practicum in Statistics II	3
STAT 648	Advanced Statistical Methods	3
STAT 649	Independent Study in Statistics	3
STAT 656	Functional Analysis	3
STAT 657	Advanced Design and Analysis of Experiments	3