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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>STAT 532</td>
<td>Fundamentals of Statistics</td>
<td>3</td>
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<tr>
<td>STAT 534</td>
<td>Statistical Computing</td>
<td>3</td>
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<tr>
<td>STAT 536</td>
<td>Statistical Theory</td>
<td>3</td>
</tr>
<tr>
<td>STAT 537</td>
<td>Design and Analysis of Experiments</td>
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<tr>
<td>STAT 538</td>
<td>Regression Methods</td>
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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
- STAT 570 Statistical Consulting
- STAT 571 Time Series Analysis
- STAT 572 Missing Data Analysis
- STAT 577 Applied Longitudinal Data Analysis
- STAT 595 Special Topics in Statistics
- STAT 640 Biostatistics: Categorical Data Analysis
- STAT 641 Biostatistics: Clinical Trials and Survival Analysis
- STAT 645 Special Topics in Advanced Statistics
- STAT 646 Multivariate Analysis
- STAT 647 Practicum in Statistics II
- STAT 648 Advanced Statistical Methods
- STAT 649 Independent Study in Statistics
- STAT 656 Functional Analysis
- STAT 657 Advanced Design and Analysis of Experiments

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

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<tr>
<th>Code</th>
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<tr>
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<td>AMAT 532</td>
<td>Applied Linear Algebra</td>
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<td>AMAT 534</td>
<td>Data-Driven Modeling and Computation</td>
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<td>AMAT 536</td>
<td>Applied Probability and Stochastic Processes</td>
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<td>Nonlinear Dynamics</td>
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<td>Software Engineering</td>
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<td>Robotics</td>
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<td>Sampling Techniques</td>
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<tr>
<td>STAT 562</td>
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