APPLIED STATISTICS (MS)

Program Requirements

<table>
<thead>
<tr>
<th>Degree Requirements</th>
<th>Quarter Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>28</td>
</tr>
<tr>
<td>Concentration Requirements</td>
<td>20</td>
</tr>
<tr>
<td>Total hours required</td>
<td>48</td>
</tr>
</tbody>
</table>

Learning Outcomes

Students will be able to:

- Demonstrate knowledge of the mathematical basis and foundations of probability and statistics necessary for them to develop and implement appropriate statistical models.
- Implement a variety of mathematical, statistical, and data analysis techniques to model and analyze complex problems, and demonstrate competence in analyzing data using methods embedded in their courses.
- Solve a real-world problem using appropriate statistical procedures with a focus on precision and accuracy.
- Use computational and statistical software platforms to develop and execute various statistical procedures and statistical computing algorithms.
- Communicate statistical ideas clearly, in verbal form, using appropriate statistical terminology and generate reports that show statistical expertise in writing and model implementation.

Degree Requirements

Course Requirements

Core - All 7 courses / 28 credit hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Quarter Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 441</td>
<td>APPLIED STATISTICS I</td>
<td>4</td>
</tr>
<tr>
<td>MAT 442</td>
<td>APPLIED STATISTICS II</td>
<td>4</td>
</tr>
<tr>
<td>MAT 443</td>
<td>APPLIED STATISTICS III</td>
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<tr>
<td>MAT 451</td>
<td>PROBABILITY AND STATISTICS I</td>
<td>4</td>
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<tr>
<td>MAT 452</td>
<td>PROBABILITY AND STATISTICS II</td>
<td>4</td>
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<tr>
<td>MAT 453</td>
<td>PROBABILITY AND STATISTICS III</td>
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</tr>
<tr>
<td>MAT 456</td>
<td>APPLIED REGRESSION ANALYSIS</td>
<td>4</td>
</tr>
</tbody>
</table>

Candidates for the degree must complete at least 48 quarter hours of graduate level work in applied statistics.

Concentration Requirements

Concentrations, tracks and specializations provide focus to the degree. Students may declare at most two concentrations for their MS, provided they successfully complete at least 14 courses as 56 credit hours required for their degree.

In addition to any degree requirements, students are required to choose one of the following:


Program Graduate Academic Student Handbook

Academic Probation

A student will be placed on academic probation at the time when his/her cumulative GPA falls below 2.70.

Academic Dismissal

A graduate student may be academically dismissed under one or more of the following violations of satisfactory progress: his/her cumulative GPA remains below 2.70 after one year of coursework while being on academic probation, or lack of progress toward degree completion.

Conditional Admission

Students whose undergraduate degrees were in majors other than mathematics or related fields may be conditionally admitted provided they complete the following minimum prerequisites as conditions: two years of calculus [the equivalent of MAT 150-MAT 152], multivariable calculus and linear algebra [the equivalent of MAT 260-MAT 262], and a course in statistics.

Readmission

The same readmission standards outlined in the Graduate Student Handbook and approval of the program director are observed for students in these programs.

Transfer Credit

No more than two graduate courses (8 quarter hours or its semester equivalent) may be transferred from another program or institution provided that they are equivalent to courses offered in DePaul's graduate program, and they did not count toward another degree at DePaul or another institution. Written approval must come from graduate program director and associate dean for graduate studies.

Undergraduate Courses

No undergraduate courses shall count toward the graduate degree.
Graduation Requirements
Requirements include, but are not limited to, twelve graduate courses (48 credit hours) at a minimum cumulative GPA of 2.70.

Graduation with Distinction
A minimum cumulative GPA of 3.83 for coursework applied toward the applied statistics degree is required for graduation with distinction.

Time Limitation
The degree is expected to be completed in a maximum of six years.