MINIMUM GRADUATE SCHOOL REQUIREMENTS

Review the Graduate School minimum academic progress and degree requirements (http://guide.wisc.edu/graduate/#policiesandrequirementstext), in addition to the program requirements listed below.

NAMED OPTION REQUIREMENTS

MODE OF INSTRUCTION

<table>
<thead>
<tr>
<th>Mode of Instruction</th>
<th>Face to Face</th>
<th>Evening/Weekend</th>
<th>Online</th>
<th>Hybrid</th>
<th>Accelerated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accelerated</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Mode of Instruction Definitions

Accelerated: Accelerated programs are offered at a fast pace that condenses the time to completion. Students typically take enough credits aimed at completing the program in a year or two.

Evening/Weekend: Courses meet on the UW–Madison campus only in evenings and/or on weekends to accommodate typical business schedules. Students have the advantages of face-to-face courses with the flexibility to keep work and other life commitments.

Face-to-Face: Courses typically meet during weekdays on the UW-Madison Campus.

Hybrid: These programs combine face-to-face and online learning formats. Contact the program for more specific information.

Online: These programs are offered 100% online. Some programs may require an on-campus orientation or residency experience, but the courses will be facilitated in an online format.

The following will also be allowed to count toward the 30-credit minimum for the master’s degree (with permission of the Director of Graduate Studies)

Up to 6 credits from Statistics Courses Numbered:

- STAT 303: R for Statistics I
- STAT 304: R for Statistics II
- STAT 305: R for Statistics III
- STAT 349: Introduction to Time Series
- STAT 351: Introductory Nonparametric Statistics
- STAT 411: An Introduction to Sample Survey Theory and Methods
- STAT 421: Applied Categorical Data Analysis
- STAT 433: Data Science with R
- STAT 443: Classification and Regression Trees
- STAT 451: Introduction to Machine Learning and Statistical Pattern Classification
- STAT 453: Introduction to Deep Learning and Generative Models
- STAT 456: Applied Multivariate Analysis
- STAT 461: Financial Statistics

Other Grade Requirements

A grade of B or better must be received in any course used to fulfill the required and elective course requirements.

Assessments and Examinations

Students must pass a competency test containing both a written and an oral component, demonstrating that they have the potential to be a practicing statistician.

Language Requirements

No language requirements.

REQUISITE COURSES

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 609</td>
<td>Mathematical Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>or STAT/MATH 709</td>
<td>Mathematical Statistics I</td>
<td></td>
</tr>
<tr>
<td>STAT 610</td>
<td>Introduction to Statistical Inference</td>
<td>4</td>
</tr>
<tr>
<td>or STAT/MATH 710</td>
<td>Mathematical Statistics I</td>
<td></td>
</tr>
<tr>
<td>STAT 849</td>
<td>Theory and Application of Regression and Analysis of Variance I</td>
<td>3</td>
</tr>
<tr>
<td>STAT 850</td>
<td>Theory and Application of Regression and Analysis of Variance II</td>
<td>3</td>
</tr>
<tr>
<td>STAT 998</td>
<td>Statistical Consulting</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 6 or more credits of Statistics courses 600 or higher

- Must include 6 elective credits in:
  - STAT/B M I 641: Statistical Methods for Clinical Trials | 3
  - And
  - STAT/B M I 642: Statistical Methods for Epidemiology | 3
  - or STAT/B M I 741: Survival Analysis Theory and Methods | 3
  - or STAT/B M I 877: Statistical Methods for Molecular Biology | 3

CURRICULAR REQUIREMENTS

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum</td>
<td>30 credits</td>
</tr>
<tr>
<td>Credit Requirement</td>
<td>16 credits</td>
</tr>
</tbody>
</table>
| Minimum     | 15 credits (50% of 30 credits) must be graduate-level coursework. Details can be found in the Graduate School's policy: https://policy.wisc.edu/library/UW-1244 (https://policy.wisc.edu/library/UW-1244/)
| Graduate Coursework Requirement | 3.00 GPA required. |
| Overall     | This program follows the Graduate School's policy: https://policy.wisc.edu/library/UW-1203 (https://policy.wisc.edu/library/UW-1203/). |
Courses that cover the same or similar topic at the undergraduate- and graduate-level may both be used towards the MS requirements. If both courses are to be used, the undergraduate level course must be completed first for both courses to be counted. Otherwise, only the graduate level course will be counted. Please note that this policy does not preclude students from taking just the undergraduate or just the graduate version of a topic. These combinations would include STAT 349 Introduction to Time Series and STAT 701 Applied Time Series Analysis, Forecasting and Control I; STAT 351 Introductory Nonparametric Statistics and STAT 809 Non Parametric Statistics; STAT 456 Applied Multivariate Analysis and STAT 760 Multivariate Analysis I; STAT 443 Classification and Regression Trees and STAT 761 Decision Trees for Multivariate Analysis; STAT 451 Introduction to Machine Learning and Statistical Pattern Classification and STAT 615 Statistical Learning; and STAT/COMP SCI 471 Introduction to Computational Statistics and STAT 771 Statistical Computing. This will also apply to special topics courses that have similar topics between the undergraduate and graduate level.

Up to 6 credits of graduate courses outside of STAT in consultation with advisor. 0-6

Up to 6 credits of STAT 699 in consultation with advisor. 0-6

Total Credits 30