This is a named option in the Statistics M.S. (http://guide.wisc.edu/graduate/statistics/statistics-ms/#text)

**ADMISSIONS**

Students holding a bachelor's degree with a natural science, social science, or engineering major and strong mathematical background are encouraged to apply for admission to the graduate program in statistics. Students are advised to undertake graduate work in statistics only if their undergraduate grades in mathematics were uniformly high. Students cannot get credit for more than one of STAT 301 Introduction to Statistical Methods, STAT 324 Introductory Applied Statistics for Engineers, or STAT 371 Introductory Applied Statistics for the Life Sciences.

**GRADUATE SCHOOL ADMISSIONS**

Graduate admissions is a two-step process between academic degree programs and the Graduate School. Applicants must meet requirements of both the program(s) and the Graduate School. Once you have researched the graduate program(s) you are interested in, apply online (https://grad.wisc.edu/admissions).

**FUNDING**

**GRADUATE SCHOOL RESOURCES**

Resources to help you afford graduate study might include assistantships, fellowships, traineeships, and financial aid. Further funding information (https://grad.wisc.edu/funding) is available from the Graduate School. Be sure to check with your program for individual policies and processes related to funding.

**PROGRAM RESOURCES**

Prospective students should see the program website (http://www.stat.wisc.edu/financial-aid) for funding information.

**REQUIREMENTS**

**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</th>
<th>STAT 609</th>
<th>STAT 610</th>
<th>STAT 849</th>
</tr>
</thead>
<tbody>
<tr>
<td>Face to Face</td>
<td>Mathematical Stats</td>
<td>Introduction</td>
<td>Theory and</td>
</tr>
<tr>
<td>Evening/Weekend</td>
<td>Statistics I</td>
<td>Statistical</td>
<td>Application</td>
</tr>
<tr>
<td>Online</td>
<td>Mathematical</td>
<td>Inference</td>
<td>of Regression</td>
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<tr>
<td>Hybrid</td>
<td>Statistics</td>
<td></td>
<td>and Analysis of</td>
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<tr>
<td>Accelerated</td>
<td>Courses</td>
<td></td>
<td>Variance I</td>
</tr>
</tbody>
</table>

**CURRICULAR REQUIREMENTS**

- **Minimum Credit Requirement**: 30 credits
- **Minimum Residence Credit Requirement**: 16 credits
- **Minimum Graduate Coursework Requirement**: Half of degree coursework (15 credits out of 30 total credits) must be completed graduate-level coursework; courses with the Graduate Level Coursework attribute are identified and searchable in the university's Course Guide (https://registrar.wisc.edu/course-guide/).
- **Overall Graduate GPA Requirement**: 3.00 GPA required.
- **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.

**REQUIRED COURSES**

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

STAT 998  Statistical Consulting  3

Select 6 or more credits of Statistics courses 600 or higher, except those listed above and:

STAT 699  Directed Study

Must include 6 elective credits in:

STAT/BMI 641  Statistical Methods for Clinical Trials  3

And

STAT/BMI 642  Statistical Methods for Epidemiology  3

or STAT/BMI 741  Survival Analysis Theory and Methods

or

STAT/BMI 877  Statistical Methods for Molecular Biology

The following will also be allowed to count toward the 30-credit minimum for the master's degree (with permission of the Curriculum and Degree Requirement Committee)

Up to 6 credits from Statistics Courses Numbered:

STAT 327  Learning a Statistical Language

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 456  Applied Multivariate Analysis

STAT/COMP SCI 471  Introduction to Computational Statistics

Total Credits  22

POLICIES

GRADUATE SCHOOL POLICIES

The Graduate School’s Academic Policies and Procedures (https://grad.wisc.edu/acadpolicy) provide essential information regarding general university policies. Program authority to set degree policies beyond the minimum required by the Graduate School lies with the degree program faculty. Policies set by the academic degree program can be found below.

NAMED OPTION-SPECIFIC POLICIES

GRADUATE PROGRAM HANDBOOK

The Graduate Program Handbook (http://www.stat.wisc.edu/sites/default/files/2016-17%20Complete%20PDF%20Handbook.pdf) is the repository for all of the program’s policies and requirements.

PRIOR COURSEWORK

Graduate Work from Other Institutions

With program approval, students are allowed to count no more than 9 credits of graduate coursework from other institutions toward the graduate degree credit and graduate coursework (50%) requirements. Coursework earned five or more years prior to admission to a master’s degree is not allowed to satisfy requirements.

UW–Madison Undergraduate

With program approval, up to 6 statistics credits from a UW–Madison undergraduate degree at the 600 level or above are allowed to count toward minimum graduate degree credits. Coursework earned five or more years prior to admission to a master’s degree is not allowed to satisfy requirements.

UW–Madison University Special

With program approval, up to 15 statistics credits completed at UW–Madison while a University Special student at the 300 level or above are allowed to count toward minimum graduate degree and graduate residence credit requirements. Of these credits, those at the 700 level or above may also count toward the minimum graduate coursework (50%) requirement. Coursework earned five or more years prior to admission to a master’s degree is not allowed to satisfy requirements.

PROBATION

Three consecutive reviews in which a student fails to meet the minimum criteria for satisfactory progress will result in the student being dropped from the program. Contact the program for more information.

ADVISOR / COMMITTEE

Students are required to meet with their advisor near the beginning of each semester to discuss course selection and progress.

CREDITS PER TERM ALLOWED

15 credits

TIME CONSTRAINTS

The competency test must be passed within six semesters after entering the department.

OTHER

Students pursuing the general statistics and biostatistics options are considered for department financial support and may seek a dual degree if desired.

PROFESSIONAL DEVELOPMENT

GRADUATE SCHOOL RESOURCES

Take advantage of the Graduate School’s professional development resources (https://grad.wisc.edu/pd) to build skills, thrive academically, and launch your career.

PEOPLE

Faculty: Professors Y. Wang (chair), Chappell, Clayton, Keles, Larget, Loh, Newton, Nordheim, Qian, Shao, Tsui, Wahba, Yandell, C. Zhang, Z. Zhang, J. Zhu; Associate Professors Ane, S. Wang; Assistant Professors Hanlon, Raskutti, Rohe, A. Zhang