STATISTICS: BIOSTATISTICS, MS

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

Face to Face Evening/ Online Hybrid

	Weekend	onine	nybrid	Accelerated
Yes	No	No	No	No

Accelerated

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.

CURRICULAR REQUIREMENTS

Requirement Detail

Minimum Credit Requirement	30 credits
Minimum Residence Credit Requirement	16 credits
Minimum	15 credits must be graduate-level coursework. Refer to
Graduate	the Graduate School: Minimum Graduate Coursework
Coursework	(50%) Requirement policy: https://policy.wisc.edu/library/
Requirement	UW-1244 (https://policy.wisc.edu/library/UW-1244/).
Overall	3.00 GPA required.
Graduate	Refer to the Graduate School: Grade Point Average
GPA	(GPA) Requirement policy: https://policy.wisc.edu/library/
Requirement	UW-1203 (https://policy.wisc.edu/library/UW-1203/).

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

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

Language No language requirements.

Requirements

REQUIRED COURSES

Code Core	Title	Credits
STAT 609 or STAT/ MATH 709	Mathematical Statistics I Mathematical Statistics	3
STAT 610 or STAT/ MATH 710	Introduction to Statistical Inference Mathematical Statistics	4
STAT 849	Theory and Application of Regression and Analysis of Variance I	3
STAT 850	Theory and Application of Regression and Analysis of Variance II	3
STAT 998	Statistical Consulting	3
Select 6 or more cre higher ¹	dits of STAT courses 600 or	
Must include 6 electiv	e 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	
or STAT/B M I 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 Director of Graduate Studies)				
Up to 6 credits from S	TAT Courses Numbered:	6		
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			

STAT/ COMP SCI 471	Introduction to Computational Statistics	
STAT/COMP SCI/ MATH 475	Introduction to Combinatorics	
STAT 479	Special Topics in Statistics	
STAT/COMP SCI/ I SY E/MATH 525	Linear Optimization	
STAT 575	Statistical Methods for Spatial Data	
undergraduate- and g towards the MS requir used, the undergraduat first for both courses t the graduate level cou that this policy does n just the undergraduate a topic. These combin Introduction to Time S Series Analysis, Forece Introductory Nonpara Non Parametric Statis Analysis and STAT 760 Classification and Reg Trees for Multivariate Machine Learning and STAT 615 Statistical Lee Introduction to Compu Statistical Computing. courses that have simi and graduate level.	raduate-level may both be used ements. If both courses are to be ate level course must be completed to be counted. Otherwise, only rse will be counted. Please note of preclude students from taking e or just the graduate version of ations would include STAT 349 Series and STAT 701 Applied Time asting and Control I; STAT 351 metric Statistics and STAT 809 tics; STAT 456 Applied Multivariate D Multivariate Analysis I; STAT 443 ression Trees and STAT 761 Decision Analysis; STAT 451 Introduction to Statistical Pattern Classification and earning; and STAT/COMP SCI 471 utational Statistics and STAT 771 This will also apply to special topics lar topics between the undergraduate	
in consultation with	raduate courses outside of STAT advisor.	0-6
Up to 6 credits of S ⁻ advisor.	TAT 699 in consultation with	0-6
Total Credits		30

¹ Courses that do not satisfy this requirement are: STAT 601 Statistical Methods I, STAT 602 Statistical Methods II, STAT 609 Mathematical Statistics I, STAT 610 Introduction to Statistical Inference, STAT 628 Data Science Practicum, STAT 678 Introduction to Statistical Consulting, STAT 699 Directed Study, STAT/MATH 709 Mathematical Statistics, STAT/MATH 710 Mathematical Statistics, STAT 849 Theory and Application of Regression and Analysis of Variance I, STAT 850 Theory and Application of Regression and Analysis of Variance II, or STAT 998 Statistical Consulting