

MASTER OF APPLIED STATISTICS, PLAN C, DATA SCIENCE SPECIALIZATION

The Master of Applied Statistics, Plan C, Data Science Specialization emphasizes practical methods in statistics and data science, focusing on applications and computational aspects rather than theory. The goal of this degree is to enable students to start working as data scientists in business, industry, or government immediately after graduation. Students receive a strong background in statistical and business computing while completing this degree. Full-time students complete the M.A.S. degree in less than a year; however, this degree may also be completed part-time, either online or on campus. Students who succeed in the field of data science typically have strong quantitative skills, analytical minds, and like to help others solve problems.

Students interested in graduate work should refer to the Graduate and Professional Bulletin (<https://catalog.colostate.edu/general-catalog/graduate-bulletin/>).

Requirements Effective Fall 2021

Code	Title	Credits
Required Courses		
CIS 605	Business Visual Application Development	3
CIS 655	Business Database Systems	3
STAA 551	Regression Models and Applications	2
STAA 552	Generalized Regression Models	2
STAA 553	Experimental Design	2
STAA 555/STAT 555	Statistical Consulting Skills	1
STAA 556	Statistical Consulting	2
STAA 561	Probability with Applications	2
STAA 562	Mathematical Statistics with Applications	2
STAA 565	Quantitative Reasoning	1
STAA 577	Statistical Learning and Data Mining	2
STAA 578	Machine Learning	2
Select from the following:		3
STAA 566	Data Visualization Methods	
STAA 567	Computational and Simulation Methods	
STAA 572	Nonparametric Methods	
STAA 573	Analysis of Time Series	
Select from the following electives:		3-4
CIS 570	Business Intelligence	
CIS 575	Applied Data Mining and Analytics in Business	
STAA 554	Mixed Models	
STAA 574	Methods in Multivariate Analysis	

STAA 575	Applied Bayesian Statistics
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Program Total Credits:

30-31

A minimum of 30 credits are required to complete this program.

Requirements for All Graduate Degrees

For more information, please visit Requirements for All Graduate Degrees (<https://catalog.colostate.edu/general-catalog/graduate-bulletin/graduate-study/procedures-requirements-all-degrees/>) in the Graduate and Professional Bulletin (<https://catalog.colostate.edu/general-catalog/graduate-bulletin/>).

Summary of Procedures for the Master's and Doctoral Degrees

NOTE: Each semester the Graduate School publishes a schedule of deadlines. Deadlines are available on the Graduate School website (<https://graduateschool.colostate.edu/deadline-dates/>). Students should consult this schedule whenever they approach important steps in their careers.

Forms (<https://graduateschool.colostate.edu/forms/>) are available online.

Step	Due Date
1. Application for admission (online)	Six months before first registration
2. Diagnostic examination when required	Before first registration
3. Appointment of advisor	Before first registration
4. Selection of graduate committee	Before the time of fourth regular semester registration
5. Filing of program of study (GS Form 6)	Before the time of fourth regular semester registration
6. Preliminary examination (Ph.D. and PD)	Two terms prior to final examination
7. Report of preliminary examination (GS Form 16) - (Ph.D. and PD)	Within two working days after results are known
8. Changes in committee (GS Form 9A)	When change is made
9. Application for Graduation (GS Form 25)	Refer to published deadlines from the Graduate School Website
9a. Reapplication for Graduation (online)	Failure to graduate requires Reapplication for Graduation (online) for the next time term for which you are applying
10. Submit thesis or dissertation to committee	At least two weeks prior to the examination or at the discretion of the graduate committee
11. Final examination	Refer to published deadlines from the Graduate School Website
12. Report of final examination (GS Form 24)	Within two working days after results are known; refer to published deadlines from the Graduate School website

13. Submit a signed Thesis/ Dissertation Submission Form (GS Form 30) to the Graduate School and Submit the Survey of Earned Doctorates (Ph.D. only) prior to submitting the electronic thesis/ dissertation	Refer to published deadlines from the Graduate School website.
14. Submit the thesis/dissertation electronically	Refer to published deadlines from the Graduate School website
15. Graduation	Ceremony information is available from the Graduate School website