Applied Statistics
Master of Applied Statistics (M.A.S.)

Why Study Applied Statistics
Demand for adept statisticians is mounting as nearly every industry relies more heavily upon data to guide decisions. Hone your skills and become an essential resource to meet this need with CSU’s online Applied Statistics master’s program. Develop a breadth of tools to help you to apply your analytic skills to design effective studies, make inferences from raw data, and translate those inferences into meaningful contexts.

What You Learn
Prepare to meet the growing demands of today’s data-dominated employment landscape, and become more equipped to make an impact in nearly any industry, in nearly any situation where people need answers. This program helps you learn to ask the right questions, so you can accurately design and implement measurement instruments, and produce precise and meaningful results. It also helps you develop your abilities to measure, control, and communicate uncertainty, as well as effectively present your findings to help guide organizational, scientific, and societal advances.

More About the Program
Our online Applied Statistics master’s is taught by the same faculty and features the same curriculum as our on-campus program, and it allows you to earn the same degree as our on-campus students. Considered a terminal degree, this program is intended for those who plan to pursue a career outside of academia, rather than pursue a Ph.D.

Delivery
Online

Credits
31 credits

Tuition
$749 per credit; financial aid is available

Time Frame
The degree begins during the summer term and can be completed in one year.

Degree Awarded
Master of Applied Statistics

Offered By
Department of Statistics

Learn More
online.colostate.edu/degrees/applied-statistics

The Bureau of Labor Statistics projects increasing demand for statisticians. Our Master of Applied Statistics will quickly prepare students to be competent practitioners of statistics, positioning them for a rewarding career in a growing job market.

Mary Meyer
Associate Statistics professor

Contact our Student Success Team to get started! (970) 492-4898 online.colostate.edu/contact
Curriculum

Subterm 1
Subterm 1 is ten weeks, beginning in mid-June. These noncredit courses are required of all students.

- GSLL 3095 – Math Skills for Statistical Analysis (0 cr.)
- GSLL 3096 – Computing Skills for Statistical Analysis (0 cr.)

Subterm 2
Subterm 2 is the first eight weeks of the Fall term beginning in August and ending in mid-October.

- STAA 551 – Regression Models and Applications (2 cr.)
- STAA 553 – Experimental Design (2 cr.)
- STAA 561 – Probability with Applications (2 cr.)
- STAA 565 – Quantitative Reasoning (1 cr.)
- STAA 573 – Analysis of Time Series (2 cr.)

Subterm 3
Subterm 3 is the last eight weeks of Fall term, beginning in mid-October and ending in mid-December.

- STAA 552 – Generalized Regression Models (2 cr.)
- STAA 562 – Mathematical Statistics with Applications (2 cr.)
- STAA 567 – Methods in Simulation and Computation (1 cr.)
- STAA 572 – Nonparametric Methods (2 cr.)

Subterm 4
Subterm 4 is the first eight weeks of Spring term, beginning in mid-January and ending in mid-March.

- GSLL 3096 – Computing Skills for Statistical Analysis (0 cr.)
- STAA 551 – Regression Models and Applications (2 cr.)
- STAA 553 – Experimental Design (2 cr.)
- STAA 566 – Computational and Graphical Statistics (1 cr.)
- STAA 571 – Survey Statistics (2 cr.)
- STAA 575 – Applied Bayesian Statistics (2 cr.)

Subterm 5
Subterm 5 is the last eight weeks of Spring term, beginning in mid-March and ending in early May.

- STAT 500 – Statistical Computer Packages (1 cr.)
- STAA 554 – Mixed Models (2 cr.)
- STAA 568 – Topics in Industrial and Organizational Stats (1 cr.)
- STAA 574 – Multivariate Analysis (2 cr.)
- STAA 576 – Methods in Environmental Statistics (2 cr.)
- STAA 577 – Statistical Learning and Data Mining (2 cr.)

Subterm 6
Subterm 6 is the first six weeks of Summer term, beginning in mid-May and ending in late June.

- STAA 556 – Statistical Consulting (3 cr.)

Minimum Admission Requirements

- A four-year bachelor’s degree from a regionally-accredited university
- Three semesters of calculus (or at least through multiple integration)
- A course in linear algebra
- At least one undergraduate-level statistics course
- Math Entrance Exam scores or GRE scores

Completion Requirements

- 31 credits
- A minimum of 24 credits must be earned through CSU, 21 of which must be earned after admission to Graduate School

Transfer credit

If you have taken prior master’s level coursework in statistics, those credits may be considered for transfer into the M.A.S. program, if:

- the grade earned was at least a B
- the course was of the appropriate type and level for the M.A.S. program
- courses requested for transfer were completed within ten years of the completion of your M.A.S.
- those courses were not used to fulfill requirements for a previously earned degree (even as an elective)