

APPLIED STATISTICS MS

<http://www.rit.edu/kgcoe/cqas/>

PROGRAM OVERVIEW FOR EMPLOYERS

Statistics is the science of making decisions in the face of uncertainty. Statistical thinking and methods are used over a broad spectrum of industrial, research, educational, business, and government activities. The Kate Gleason College of Engineering at RIT, through the John D. Hromi Center for Quality and Applied Statistics, offers a Master of Science degree in applied statistics that provides state-of-the-art statistical thinking and methods. The college also offers an advanced certificate in statistical quality for students whose primary interest is in the field of quality, as well as an advanced certificate in statistical methods for product and process improvement for students who want a sound education in statistical methods but who wish to finish a program in a shorter time period than that for the MS degree.

Degree(s) Awarded

- Master of Science degree; requires 45 credits.
- Advanced certificate in statistical quality; requires 18 credits.
- Advanced certificate in statistical methods for product and process improvement; requires 18 credits.
- BS/MS programs:
The center has agreements with RIT's departments of Mathematics and Industrial and Systems Engineering to enable students to earn both BS and MS degrees simultaneously (in less time than if pursued separately).

Enrollment

Approximately 75 students are enrolled in the MS and advanced certificate programs, mostly on a part-time schedule.

Cooperative Education Component

- Co-op is an option after completing at least one quarter of coursework and obtaining departmental approval.
- Co-op students are able to work 3 or 6 month interval(s).

Salary Information (Avg/Range)

Co-op:	\$21.04	\$13.00 - \$25.00
MS:	\$57,000	\$40,000 - \$74,000

Equipment & Facilities

The center is home to the Mason E. Wescott Statistics Computer Laboratory. The center's Richard A. Freund Resource Room and graduate student office contain books and journals from both the statistics and quality fields. The Wallace Memorial Library and the Media Resource Center provide access to a wealth of other references vital to professional studies.

The John D. Hromi Center for Quality and Applied Statistics has achieved international recognition for its quality and productivity seminars, custom training programs, consultative expertise, and Master's and advanced certificate programs.

Student Skills & Capabilities

Design of Experiments
Multivariate Analysis
Regression Analysis
Reliability
Survey Design and Sampling
Robust Design
Nonparametrics
Probability Modeling
Quality Management
Statistical Software Programs
Statistical Acceptance Control
Statistical Process Control

Applied Statistics MS

Course Sequence MS degree

Fifteen courses or equivalent are required, as follows

Seven core courses

Statistical Computing
Design and Analysis of Experiments I & II
Theory of Statistics I & II
Regression Analysis I & II

Four courses from one of the following career options. A specialized option is also available.

Quality Engineering

Statistical Process Control
Statistical Acceptance Control
Quality Management
Quality Engineering

Statistical Theory and Methods

Probability Models
Multivariate-Analysis Theory
Multivariate-Analysis Applications
Reliability Statistics I

Industrial Statistics (choose 4)

Design and Analysis of Experiments III
Principles of Data Mining I
Reliability Statistics I
Quality Engineering by Design
Categorical Data Analysis

Three elective courses. A thesis/project option is available in lieu of some electives.

Capstone course.

Employers of Applied Statistics MS students

Bausch & Lomb, Delphi, Genesee Metal Stampings, Harris RF Communications, Johnson & Johnson (Ortho Clinical), Moog, Southco, Welch Allyn, Xerox

Contact us

We appreciate your interest in hiring RIT co-op, graduating students or alumni. We will make every effort to make your recruiting endeavor a success. Call our office and ask to speak with Annette Stewart, the program coordinator who works with the Applied Statistics MS and advanced certificate programs. For your convenience, you can access information and services through our web site at <http://www.rit.edu/recruit>.

Annette K. Stewart

Program Coordinator

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