

APPLIED STATISTICAL MODELING CERTIFICATE

Introduction

The Applied Statistical Modeling certificate is an ideal endorsement for those looking to learn advanced modeling skills. These classes will teach you to think and reason with quantitative data, especially using large scale datasets. You will learn to build model to test conceptual frameworks and communicate findings in a manner that is useful to those working in applied/field settings.

Delivery Method

- This certificate is available fully online and in a hybrid format.

Program Requirements

Certificate Structure

The certificate consists of four courses, totaling 12 credit hours, and may be earned in one year. Courses may be taken as part of the certificate as well as used toward the Master of Arts in Research and Evaluation Methods (<http://catalog.ucdenver.edu/cu-denver/graduate/schools-colleges-departments/school-education-human-development/research-evaluation-methods/>).

| Code | Title | Hours |
|-------------------------------------|--|-----------|
| Required Courses | | |
| RSEM 7100 | Advanced Methods of Qualitative Inquiry | 3 |
| RSEM 7800 | Structural Equation Modeling | 3 |
| Select two of the following: | | 6 |
| RSEM 7120 | Advanced Methods in Quantitative Inquiry and Measurement | |
| RSEM 7700 | Multilevel Modeling: HLM | |
| RSEM 7140 | Management & Secondary Analysis of Large Datasets | |
| RSEM 7130 | Advanced Measurement: Item Response Theory | |
| Total Hours | | 12 |

Note: All students are required to meet a prerequisite in introductory statistics (RSEM 5100 Basic Statistics or equivalent) prior to taking courses in the Applied Statistical Modeling Certificate.