**ALLIED REAL ESTATE SCHOOLS**
A DIVISION OF ALLIED BUSINESS SCHOOLS, INC.

*Statistics and Modeling*
# Syllabus

## Course Hours: 7

## Instructional Mode
Distance Education

## Learning Resources
*Statistics, Modeling, and Finance*, online text

## Course Description

The Statistics and Modeling course is designed to teach the practicing appraiser how to use basic statistical concepts to improve the reliability of his or her market data. You will learn to identify and complete challenging assignments more efficiently and to use statistical concepts to process data and, ultimately, complete your assignments faster.

This course provides continuing education hours for the licensed real estate appraiser. It is intended to enhance the knowledge and effectiveness of appraisers in all license categories and is approved by the Bureau of Real Estate Appraisers for 7 hours of continuing education.

## Learning Objectives

After completing this course, you will be able to:

1. Recall basic statistical concepts and identify the mean, median, and mode.
2. Recall why appraisers calculate the standard deviation from the mean as part of an appraisal assignment.
3. Indicate the use of regression analysis to measure the relationship between independent and dependent variables.
4. Indicate advantages and disadvantages of multi-variable regression analysis.
5. Recall the use probability in appraisal.
6. Solve for the probability of complementary events.
7. Identify the strengths and weaknesses of automated valuation models (AVMs).

## Course Time Frame

Students must spend a minimum of 7 classroom hours* in this course. Access to specific assignments will be restricted to ensure that students accumulate the required seat time.

*A classroom hour is defined as 50 minutes for each clock hour the course is approved.

## Grading/Evaluation Policy

Performance is measured by online lesson quizzes and unit exams. To complete this course successfully, students must complete: 7 Units including all reading assignments, Lesson Quizzes, and Unit Exams. A minimum passing score of 70% or better is required on all quizzes and exams. Quizzes and exams with scores below 70% must be retaken until the score meets or exceeds 70%.

## Course Outline and Grading Criteria

| Unit Title | Hours | Assignment Title | Points Possible | Required to Pass |
|---|---|---|---|---|
| 1: Basic Statistics | 0.50 | Unit Exam | 4 | 3 |
| 2: Standard Deviation | 0.75 | Unit Exam | 4 | 3 |
| 3: Introduction to Regression Analysis | 1.00 | Unit Exam | 4 | 3 |
| 4: Introduction to Multi-variable Regression Analysis | 1.00 | Unit Exam | 4 | 3 |
| 5: Introduction to Probability | 1.00 | Unit Exam | 4 | 3 |
| 6: Advanced Probability | 1.50 | Unit Exam | 4 | 3 |
| 7: Automated Valuation Models (AVMs) | 1.25 | Unit Exam | 4 | 3 |
| **Total** | **7.00** | | 28 | 21 |

## Student Integrity and Academic Honesty Policy

Allied Schools strives to encourage a spirit of honesty and integrity. This policy was created to foster a climate that promotes the most stringent academic standards. Violations of this policy will be dealt with using fair and consistent methods. Committing one or more of the following actions is considered unacceptable and constitutes a violation of this policy:

- Intentionally using or attempting to use unauthorized materials in any academic exercise;
- Intentionally aiding or attempting to aid another student to commit any act of academic dishonesty;
- Bribing or attempting to bribe, or making threats against any individual, with the intention of affecting a grade or an evaluation of academic performance;
- Falsifying any documents;
- Accessing the institution's computer systems or files without proper authorization.