



*Statistics, Modeling,  
and Finance*  
**Syllabus**

**Course Hours:** 15

**Instructional Mode**

Distance Education

**Learning Resources**

*Statistics, Modeling, and Finance*, online text

**Course Requirements**

HP-12c calculator

**Course Description**

The Statistics, Modeling, and Finance course is designed to teach the already practicing appraiser how to use basic statistical concepts to improve the reliability of his/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 meets the Appraisal Qualification Board's (AQB) **Statistics, Modeling, and Finance 15-Hour requirement** for Certified Residential licensees.

**Learning Objectives**

After completing this course, you will be able to:

- Describe basic statistical concepts.
- Determine the standard deviation from a data set.
- Use statistics to estimate the value of real estate.
- Recognize that data collection and analysis requires specialized knowledge of specific and general data.
- Identify the mean, median, and mode of a set of datum points.
- Calculate the standard error of the estimate.
- Indicate advantages and disadvantages of multi-variable regression analysis.
- Specify how probability is used in appraisal.
- Solve for the probability of complementary events.
- Identify the strengths and weaknesses of automated valuation models (AVMs).
- Distinguish between money, interest, and debt.
- Calculate the Six Functions of \$1 using the HP 12c.
- Determine the relationship between capitalization rates and value.

**Grading/Evaluation Policy**

Performance is measured by successful completion of online lesson exercises, quizzes, and examinations. To successfully complete this course, students must complete: 10 units including all reading, exercises, and lesson quizzes, and successfully pass 10 Unit Exams and a Final Exam. A minimum passing score of 70% or better is required on all assignments. Assignments with scores below 70% must be retaken until the score meets or exceeds 70%. If you do not pass the final exam, you are allowed to retake it.

**Contact Information**

**Help Ticket:** [www.alliedschools.com/support.shtml](http://www.alliedschools.com/support.shtml)

**Instructional Support Toll Free:** 888-751-2303

**Student Services Toll Free:** 888-925-4282

**International:** 949-707-5044

**Fax:** 800-898-9188

**Hours:** Monday - Friday, 7:00 a.m. to 6:00 p.m. PST



*Statistics, Modeling,  
and Finance*  
**Syllabus**

**Course Outline and Grading Criteria**

<b>Unit</b>	<b>Hours</b>	<b>Assignment</b>	<b>Points Possible</b>	<b>Required to Pass</b>
1: Basic Statistics	0.75	Unit Exam	8	6
2: Standard Deviation	1.00	Unit Exam	8	6
3: Introduction to Regression Analysis	1.25	Unit Exam	8	6
4: Introduction to Multi-variable Regression Analysis	1.50	Unit Exam	8	6
5: Introduction to Probability	1.25	Unit Exam	8	6
6: Advanced Probability	1.75	Unit Exam	8	6
7: Automated Valuation Models (AVMs)	1.50	Unit Exam	8	6
8: Introduction to Finance	1.25	Unit Exam	8	6
9: Finance: Six Functions of \$1	1.75	Unit Exam	8	6
10: Small Income Property Valuation	1.50	Unit Exam	8	6
Final Exam	1.50	Multiple-Choice	90	63
<b>Total</b>	<b>15.00</b>		<b>170</b>	<b>123</b>

**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.