

Rationale for the Required Coursework in the Pitt-Greensburg Actuarial Science Program

The Actuarial Science Minor at Pitt-Greensburg is designed to provide you with the potential to accumulate entry-level credentials in actuarial science. The program accomplishes this by aligning the coursework required with credentials established by the two professional organizations; Society of Actuaries and Casual Actuary Society. These two organizations have jointly created a web site, www.beanactuary.com, that provides a detailed explanation of the profession.

Our program aligns itself with established credentials in three ways:

1. We have four pre-approved courses that satisfy the Validation of Educational Experiences (VEE) requirements. These are course requirements in the areas of Statistics, Economics, and Finance. Our pre-approved courses respectively are
 - a. STAT 1152 – Mathematical Statistics
 - b. ECON 0100 – Introduction to Microeconomic Theory
 - c. ECON 0110 – Introduction to Macroeconomic Theory
 - d. MGMT 1821 – Introduction to Finance
2. Our course, STAT 1151 – Introduction to Probability, covers most of the content on which the Probability Exam (SOA Exam P) is based. This is usually the first actuarial exam taken.
3. STAT 1221 – Applied Regression is not required, yet is **highly** recommended as an elective to help students prepare for the **new** Statistics For Risk Modeling Exam they will take.

The other courses in the Actuarial Science program are prerequisites for the statistics courses and the finance course listed above. An introductory statistics course (either STAT 0200, STAT 1000, or STAT 1100) is required before taking STAT 1221, two semesters of calculus (MATH 0220 and MAT 0230) are required before taking STAT 1151, and financial accounting (MGMGT 0022) is required before taking MGMT 1821. The table below summarizes the courses and their rationale.

Course	Rationale
STAT 0200 or STAT 1000 or STAT 1100	Prerequisite for STAT 1221
MGMT 0022	Prerequisite for MGMT 1821
MGMT 1821	Satisfies VEE requirement
ECON 0100	Satisfies VEE requirement
ECON 0110	Satisfies VEE requirement
MATH 0220	Prerequisite for MATH 0230
MATH 0230	Prerequisite for STAT 1151
STAT 1151	Preparation for Actuarial Exam P
STAT 1152	Satisfies VEE requirement