

## Math B22 Elementary Probability and Statistics

Student Learning Outcomes or AUO	Measure	PLO	ILO	GE
1. Translate application problems by using inferential data analysis techniques. Analyze and interpret solutions.	Embedded exam question	PLO 2	II	B.2.14
		PLO 3	I III	
2. Apply appropriate techniques of probability and probability distributions to solve problems.	Embedded exam question	PLO 1	III	B.2.14
		PLO 2	II	
3. Demonstrate statistical knowledge of descriptive statistics by clearly communicating concepts in written or verbal form.	Embedded exam question	PLO 3	I III	B.2.14
		PLO 4	I II III	
		PLO 5	I III	

**PLOs:**

1. Demonstrate an understanding of functions from multiple perspectives.
2. Use numerical, graphical, symbolic, and verbal representations to solve problems and communicate with others.
3. Use technology as a tool for exploring mathematical concepts.
4. Demonstrate an ability to work with mathematical abstractions, analyze mathematical relationships, make plausible conjectures, and develop proofs.
5. Synthesize mathematical knowledge.

**ILOs:**

- I. Think critically and evaluate sources and information for validity and usefulness.
- II. Communicate effectively in both written and oral forms.
- III. Demonstrate competency in a field of knowledge or with job-related skills.
- IV. Engage productively in all levels of society – interpersonal, community, the state and nation, and the world.

**GELOs:**

Use the GE categories from the catalog if this is a GE course. Areas A-E  
General Education Learning Outcomes for Mathematics

*B.2 Mathematics and Logic (Analytic Thinking)*

- 14. Apply formal systems of reasoning in solving problems or analyzing arguments.*