

## Math B6B Analytic Geometry and Calculus II

Student Learning Outcomes or AUO	Measure	PLO	ILO	GE
1. Apply various integration techniques to evaluate integrals, including exponential and logarithmic functions.	Embedded	PLO 2	II	B.2.14
	exam	PLO 5	I	
	question		III	
2. Apply differentiation and integration methods to parametric and polar functions, when applicable.	Embedded	PLO 1	III	B.2.14
	exam	PLO 2	II	
	question	PLO 3	I III	
3. Demonstrate mathematical knowledge of series and sequences.	Embedded	PLO 2	II	B.2.14
	exam	PLO 4	I	
	question		II 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.*