MISSION STATEMENT AND STUDENT LEARNING OUTCOMES FOR:

GIS/AIS

Review Year: 2026

Division:	**Discipline/Program/Department:**	**Contact Person:**
Technical Education	GIS/AIS	**Mueller, Keith**

Mission Statement

The mission of Southwestern Illinois College's Geospatial and Aeronautical Information Systems program is to provide a high quality educational and internship experiences to foster the knowledge and skill development required to prepare students for careers in GIS/AIS.

Program/Discipline Curriculum Map

I = Introduce: Student is first exposed to the concept/idea and is requested to apply the concept in a limited scope.
E = Emphasize: Student applies concept(s) in varying/multiple situations of greater complexity than when initially introduced.
R = Reinforce: Student may be expected to understand the concept upon taking the course and utilizes the concept in conjunction with other concepts/ideas to solve problems.

PROGRAM/DISCIPLINE OUTCOMES	**COURSE PREFIX AND NUMBER**																									
Graduates of this program or discipline shall be able to:	GIS 100	GIS 101	GIS 102	GIS 103	GIS 110	GIS 120	GIS 210	GIS 220	GIS 225	GIS 240	AVG 101	AVG 102	AVG 105	AVG 210	AVG 280	AVIA 101	AVIA 126	AVIA 201								
Apply foundational theories to geospatial science to real-world industry applications.	I	I	E	E	E	E	E	I	R	R	E	R	R	E	E	I	E	R								
Demonstrate the ability to use industry standard GIS software proficiently.	I	I	E	E	E	E	E	E	E	R		R	R	E	E	I		R								
Demonstrate an understanding of data modeling.	I	I	E	E	E	E	E	I	E	R	I	R	R					R								
Use cartographic design principles to communicate effectively with maps.	I	I		E	E		E		R	R		R	R		E		I									

Demonstrate the ability to create and import digital special data representing real-world features from surface of the Earth with the goal of viewing, manipulating, and analyzing data to be distributed and used in decision making.	I					I	E	E	R	R	R	R	R		R		E									

Map Comments:

Correct as currently structured.

Core Competency Map

CORE COMPETENCIES	***COURSE PREFIX AND NUMBER***																									
Communication Skills	GIS 100	GIS 101	GIS 102	GIS 103	GIS 110	GIS 120	GIS 210	GIS 220	GIS 225	GIS 240	AVG 101	AVG 102	AVG 105	AVG 210	AVG 280	AVIA 101	AVIA 126	AVIA 201								
1. Computer Literacy		X	X		X	X	X	X	X		X		X	X			X									
2. Oral Communications	X									X						X										
3. Writing	X							X			X															
Reasoning Skills																										
4. Critical Thinking	X			X		X		X	X		X		X					X								
5. Quantitative Literacy							X	X		X					X											
Citizenship																										
6. Personal Accountability	X			X			X	X		X		X				x										
7. Civic And Social Accountability				X						X							x									