MISSION STATEMENT AND STUDENT LEARNING OUTCOMES FOR:

Mathematics and Computer Science

Review Year: 2024

Division:	**Discipline/Program/Department:**	**Contact Person:**
Math & Sciences	Mathematics and Computer Science	**Hansen, Keven**

Mission Statement

The mission of the Department of Mathematics at Southwestern Illinois College is to provide students with the opportunity to develop the mathematical, quantitative, and analytical skills necessary to attain their educational, career, and personal goals. Students will be exposed to the implications that mathematics has in society. The department provides students with the necessary opportunities to advance in their mathematical development and to pursue life-long learning.

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:	MATH 91	MATH 92	MATH 93	MATH 94	MATH 95	MATH 96	MATH 97	MATH 105	MATH 106	MATH 107	MATH 111	MATH 112	MATH 113	MATH 114	MATH 171	MATH 191	MATH 203	MATH 204	MATH 205	MATH 210	MATH 213	MATH 271	MATH 290	MATH 292		
Demonstrate proficiency in basic mathematical skills and computation as identified in the course objectives.	I	I	I	I	I	I	I	E	E	E	E	E	E	E	E	E	R	R	R	R	R	E	R	R		
Infer logical conclusions about abstract mathematical concepts.	I	I	I	I	I	I	I	E	E	E	E	E	E	E	E	E	R	R	R	R	R	E	R	R		
Apply mathematical concepts to authentic situations.	I	I	I	I	I	I	I	E	E	E	E	E	E	E	E	E	R	R	R	R	R	E	R	R		
Use current technologies to investigate mathematical concepts.										I		I	E	E	E	E	R	R	R	R	E	E	R	R		
Communicate mathematics.	I	I	I	I	I	I	I	E	E	E	E	E	E	E	E	E	R	R	R	R	R	E	R	R		

Map Comments:

Core Competency Map

Core Competencies	***Course Prefix and Number***																								
Communication Skills	MATH 91	MATH 92	MATH 93	MATH 94	MATH 95	MATH 96	MATH 97	MATH 105	MATH 106	MATH 107	MATH 111	MATH 112	MATH 113	MATH 114	MATH 171	MATH 191	MATH 203	MATH 204	MATH 205	MATH 210	MATH 213	MATH 271	MATH 290	MATH 292		
1. Computer Literacy															X											
2. Oral Communications									X																	
3. Writing																		X								
Reasoning Skills																										
4. Critical Thinking														X												
5. Quantitative Literacy										X																
Citizenship																										
6. Personal Accountability																										
7. Civic And Social Accountability																										