MISSION STATEMENT AND STUDENT LEARNING OUTCOMES for Chemistry

Review Year: 2024

Division:	Discipline/Program/Department:	Contact Person(s):
Math & Sciences	Chemistry	Hatfield, Stan

Mission Statement

The Physical Science Department at Southwestern Illinois College recognizes the importance of a scientifically literate community. Our faculty is committed to assisting students, through learning and assessment, in both the understanding of the scientific principles and the development of fundamental analytical skills necessary to succeed in Baccalaureate or career programs.

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/discipline shall be able to:	CHEM 100	CHEM 101	CHEM 103	CHEM 105	CHEM 106	CHEM 201	CHEM 202								
Apply the concepts and fundamentals of the physical sciences.	I/E	I/E	E	I/E	E	E	E								
Explain and manipulate measurements, scales, and unit conversions.	I/E	I/E	E	I/E	E	R	R								
Collect, process, and interpret scientific data.	I/E	I/E	E	I/E	E	R	R								
Communicate technical information effectively.	I/E	I/E	E	I/E	E	E	E								
Assess the scientific worth of information such as those provided by popular media.	I/E														
Perform safely and productively in a laboratory setting.	I/E	I/E	E	I/E	E	E	R								

Map Comments:

Core Competency Map

Core Competencies	***Course Prefix and Number***														
	CHEM 100	CHEM 101	CHEM 103	CHEM 105	CHEM 106	CHEM 201	CHEM 202								
Communication Skills															
1. Computer Literacy															
2. Oral Communications															
3. Writing															
Reasoning Skills															
4. Critical Thinking	X	X	X	X	X	X	X								
5. Quantitative Literacy	X	X	X	X	X	X	X								
Citizenship															
6. Personal Accountability															
7. Civic And Social Accountability															