

COURSE OUTCOME MATRIX

COURSE SYLLABUS

PART 2 of 3

Course Number and Title	SC110 General Physical Science II
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Credit Hours	4
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Course Description	Laboratory Course: 3 hours in the classroom and 2 hours lab work each week. An introductory and conceptual study of basic chemistry and geology designed to increase one's awareness of the physical universe. The chemistry component focuses on atomic structure, the periodic table, chemical reactions, and inorganic and organic compounds. The geology component concerns rocks and minerals, geologic time, plate tectonics and the structure of the earth, with a special emphasis on local strata. This course is not intended for science majors.
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Prerequisite(s) and/or Corequisite(s)	Prerequisite: MT 121 or MT 121E or MT 124A or minimum acceptable test scores for placement in college-level math (quantitative reasoning).
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Required Textbooks/References/Course Materials:

Physical Science (Looseleaf) - With Connect	12th	Tillery, Bill W.	McGraw-Hill Publishing Company	1260699250
Physical Science - Connect Plus Access	12th	Tillery, Bill W.	McGraw-Hill Publishing Company	1260411281
Physical Science (hardback)	12th	Tillery, Bill W.	McGraw-Hill Publishing Company	1260150542

General Education Outcomes	
1	Utilize written and verbal language to discuss and comprehend information, incorporating a variety of technologies, such as text, data, and images (written language, verbal language, and information technology).
2	Identify and interpret relevant information in order to formulate an opinion or conclusion (critical thinking).
3	Demonstrate and communicate computational methods and mathematical reasoning in a variety of formats (using words, tables, graphs, mathematical equations, etc., as appropriate) (quantitative literacy and fluency).
4	Communicate in appropriate ways with those who are culturally diverse (intercultural competence).

Program/Department Outcomes	
1	Students demonstrate a broad knowledge of science.
2	Students demonstrate how science processes work
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	Course Outcomes (CO)	Bloom's Domain for CO (C, A, P), Category, and Level	Program/Department Outcome(s)	Written Language	Verbal Language	Information Technology	Critical Thinking	Quantitative Literacy and Fluency	Intercultural Competence
1	Perform laboratory exercises while displaying safe laboratory practices.	P-Manipulate (2)	1,2		0	0	1	0	0
2	Write laboratory exercise reports.	C-Understanding (2)	1.2	1	0	0	1	0	0
3	Define and understand basic chemistry concepts using the periodic table to include atomic, molecular, chemical and physical properties, acids and bases, organic and inorganic compounds, as well as simple chemical equations.	C-Understanding (2)	1	1	0	0	1	0	0
4	Define and understand basic geological concepts of various rock formations, minerals, plate tectonics, volcanism, geologic time, fossils, weathering and erosion effects.	C-Understanding (2)	1	1	0	0	1	0	0
5	Define and understand basic meteorological and climatological concepts as well as various diagrams and charts.	C-Understanding (2)	1	1	0	0	1	0	0
5									
6									

Bloom's Domain Legend

C = Cognitive
A = Affective
P = Psychomotor

General Education Outcome Legend

2 = Included and Measurable
1 = Introduced and/or Minimally Addressed and Not Measurable
0 = Not included

Approved: October 14, 2021
Reviewed: November 5, 2021