

**Physical Science Major (50 credit hours)**

**2018-2019**

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**Major Requirements:**

*(Majors are encouraged to pursue the TeachScience complementary major as part of their studies; this major is also recommended for those considering a career in secondary education.)*

- CHEM 2110, General Chemistry I, 4 credit hours
- CHEM 2120, General Chemistry II, 4 credit hours
- CHEM 2210, Organic Chemistry I, 4 credit hours
- CHEM 3100, Analytical Chemistry, 4 credit hours
- MATH 2010, Calculus I, 4 credit hours
- MATH 2020, Calculus II, 4 credit hours
- PHYS 1000, Physical Science, 4 credit hours
- PHYS 1020, Earth and Space Science, 4 credit hours
- PHYS 1240, Astronomy, 4 credit hours
- PHYS 2240, General Physics I, 4 credit hours
- PHYS 2250, General Physics II, 4 credit hours
- PHYS 3130, Modern Physics, 2 credit hours
- PHYS 4510, Senior Physical Science Practicum I, 1 credit hour
- PHYS 4520, Senior Physical Science Practicum II, 1 credit hour
- PHYS 4910, Science Seminar I, 1 credit hour
- PHYS 4920, Science Seminar II, 1 credit hour

Proposed course sequence:

Freshman: CHEM 2110, MATH 2010, PHYS 1000; CHEM 2120, MATH 2020, PHYS 1240  
Sophomore: CHEM 2210; PHYS 1020, PHYS 2240  
Junior: CHEM 3100, PHYS 2250; PHYS 3130  
Senior: PHYS 4510, 4910; PHYS 4520, 4920

- CHEM 2110, General Chemistry I, is a Scientific Ways of Knowing course in the Liberal Arts Program.
- CHEM 3100, Analytical Chemistry, is a Writing Intensive course in the Liberal Arts Program.
- MATH 2010, Calculus I, is a Quantitative Reasoning course in the Liberal Arts Program.
- PHYS 1000, Physical Science, is a Scientific Ways of Knowing course in the Liberal Arts Program.
- PHYS 1020, Earth & Space Science, is a Scientific Ways of Knowing course in the Liberal Arts Program.
- PHYS 1240, Astronomy, is a Scientific Ways of Knowing course in the Liberal Arts Program.

Physical Science Major Suggested Course Sequence

2018-2019

SEMESTER 1		SEMESTER 2	
CHEM 2110	4 Hours	CHEM 2120	4 Hours
MATH 2010	4 Hours	MATH 2020	4 Hours
PHYS 1000	4 Hours	PHYS 1240	4 Hours
ENGL 1100/ENGL 1110	3-4 Hours	ENGL 1120	3 Hours
LART 1050	1 Hour	LART 1100	2 Hours

SEMESTER 3		SEMESTER 4	
CHEM 2210	4 Hours	PHYS 1020	4 Hours
BIBL 2000	3 Hours	PHYS 2240	4 Hours
Foreign Language	4 Hours	COMM 1000	3 Hours
Personal Wellness	2-Hours	Elective	3 Hours

SEMESTER 5		SEMESTER 6	
CHEM 3100	4 Hours	PHYS 3130	2 Hours
PHYS 2250	4 Hours	Social & Behavioral Ways of Knowing	3 Hours
Aesthetic Ways of Knowing	3 Hours	Elective	3 Hours
Civic Ways of Knowing	3 Hours	Elective	3 Hours

SEMESTER 7		SEMESTER 8	
PHYS 4510	1 Hour	PHYS 4520	1 Hour
PHYS 4910	1 Hour	PHYS 4920	1 Hour
Christian Ways of Knowing	3 Hours	Global/Intercultural	3 Hours
Elective	3 Hours	Elective	3 Hours
Elective	3 Hours	Elective	3 Hours

The purpose of study in the physical sciences is to obtain an understanding of the nature and order of the physical world while being exposed to the logical application of scientific methods in discovering this order. Students considering a career in secondary education may wish to pursue the physical science major instead of the more specialized physics or chemistry majors.