

Mathematics and Physical Science - Chemistry/Physics Option Associate in Science Degree Life changing.

Division of Engineering, Physical Science and PTEC

This degree is offered on NOC Enid and NOC Tonkawa campuses.

Program Requirements 60 Total Credit Hours										
General Education Courses 37 Total Credit Hours					Pro	20 hours				
English Composition Courses				*	PHYS	2014	Engineering Physics I	4 hours		
	ENGL	1113	English Composition I	3 hours		MATH	1613	Plane Trigonometry	3 hours	
	ENGL	1213	English Composition II	3 hours	*	MATH	2144	Calculus I	4 hours	
History & Government Courses				*	MATH	2154	Calculus II	4 hours		
	HIST	1483	American History to 1877	3 hours	*	MATH	2164	Calculus III	4 hours	
or	HIST	1493	American History Since 187	7		PRDV	2321	Professional Development	1 hour	
	POLI	1113	American Government	3 hours						
Hur	manities (Courses								
Electives 6 hours				Recommended Program Elective Courses				3 hours		
One 3 hour course to be chosen from those listed with the				(Combine with Gen Ed. hours to choose 6 hours)						
Inte	International Dimension and 3 hours of humanities electives.				BIOL	1114	General Biology	4 hours		
Mathematics Courses				BIOL	1314	General Botany	4 hours			
	MATH	1513	Algebra for STEM	3 hours		BIOL	2124	Microbiology	4 hours	
Science Courses				BIOL	1214	Environmental Science	4 hours			
	CHEM	1315	General Chemistry I	5 hours		ENGL	1223	Technical Writing	3 hours	
	CHEM	1414	General Chemistry II	4 hours	*	MATH	2613	Differential Equations	3 hours	
Computer Science Courses				*	PHYS	2114	Engineering Physics II	4 hours		
	BADM 1113 Digital/Financial Literacy 3 hours				Programming Language Course(s)			3 hours		
or Other approved computer course										
Orientation Course										
	ORNT	1101	Freshman Orientation	1 hour						
General Education Elective Course 3 hours				*These program courses are typically offered only once a year.						
Sele	Select courses from: Language Arts, Natural Sciences, Foreign				See course descriptions for fall or spring designations and plan					
	Languages, Fine Arts, Humanities, Mathematics, Behavioral or					accordingly. Some degrees allow General Physics to substitute for Engineering Physics; check with your advisor.				
Soc	Social Sciences				-116			STOCK WITH YOUR AUVISOR.		

The Chemistry/Physics degree option prepares students to transfer to a four-year university to pursue a bachelor's degree. The program is an excellent starting place for students considering careers in research, medicine, or academia.

Students transferring should consult the catalog from the institution to which they are planning to transfer to carefully select courses that will meet requirements to complete their bachelor's degree.

Career Opportunities: Entry-Level Scientist, Biotechnology, High School Science, Teacher, Meteorologist, Geologist, Laboratory Chemist

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This suggested curriculum includes degree requirements and courses that are usually completed in the first two years of a four-year curriculum. Consult with the university or college of your choice and its catalog curriculum as you make plans on where to transfer. Be careful to select the courses that will meet all requirements for both the Associate and Baccalaureate degree programs.

Year One						
Fall Semester			Spring Semester			
ENGL	1113	English Composition I	ENGL	1213	English Composition II	
ORNT	1101	Freshman Orientation	PHYS	2014	Engineering Physics I (Spring only)	
**MATH	1513	Algebra for STEM	CHEM	1414	General Chemistry II	
**MATH	1613	Plane Trigonometry	*MATH	2144	Calculus I	
CHEM	1315	General Chemistry I				
HIST	1483	American History to 1877				
or						
HIST	1493	American History Since 1877				
Total: 18	Total: 18 credit hours			Total 15 credit hours		

Year Two						
Fall Semester			Spring Semester			
BADM	1113	Digital/Financial Literacy	POLI	1113	American Government	
*MATH	2154	Calculus II		3 hours	Humanities Elective	
	3 hours	General Education Elective (Engineering Physics II recommended)	*MATH	2164	Calculus III	
	3 hours	Humanities Elective		3 hours	Program. Elective	
			PRDV	2321	Professional Development	
Total 13 credit hours			Total 14 credit hours			

^{*}These program courses are typically offered only once a year. See course descriptions for fall or spring designations and plan accordingly.

NOC evaluates students for placement into supplemental/college-level courses or college-level courses, whichever will lead to the greatest possibility of student success. Academic placement is determined by A.C.T. test scores, corresponding A.C.T. challenge tests, holistic placement, or other college approved placement tests. These tests are administered in the Testing Center at NOC. Based upon the scores, students may be required to take one or more supplemental courses for English, Math, Social Science, or Nursing. See the NOC testing web page by clicking on the following link: http://www.noc.edu/act for placement guidelines.

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^{**}Students scoring 26 or above on the math subsection of the ACT do not have to take MATH 1513 Algebra for STEM. Students scoring 28 or above on the math subsection of the ACT do not have to take MATH 1613 Plane Trigonometry. Students not taking Algebra & Trigonometry because of ACT scores or CLEP exam results are required to substitute 3-6 hours of credit in appropriate General Education Electives or RECOMMENDED PROGRAM ELECTIVES to complete 60 hours at NOC and maximize their transfer hours to the four-year institution.