

MATHEMATICS AND PHYSICAL SCIENCE

(Note: Program requirements for this degree are offered on NOC Enid and NOC Tonkawa campus only.

At the beginning of each course listing, the four letter abbreviation indicates the department and the four digits indicate the course code used for enrollment. The total course hour value follows each.)

PROGRAM REQUIREMENTS		SUGGESTED COURSE SEQUENCE		The Associate in Science degree in Mathematics and Physical Science is designed to prepare students to transfer to a four-year university to pursue a bachelor's degree. Students should consult the catalog from the institution to which they are planning to transfer to complete the bachelor's degree.
	Credit Hours		Credit Hours	
GENERAL EDUCATION COURSES	37 TOTAL HOURS	FIRST SEMESTER	16 TOTAL HOURS	
ENGLISH COMPOSITION COURSES		ENGL 1113 English Composition I	3 hours	
ENGL 1113 English Composition I	3 hours	MATH 1513 College Algebra	3 hours	
ENGL 1213 English Composition II	3 hours	ORNT 1101 Freshman Orientation	1 hour	
HISTORY AND GOVERNMENT COURSES		BSAD 1113 Digital/Financial Literacy	3 hours	
HIST 1483 American History to 1877 (OR) HIST 1493 American History Since 1877	3 hours	*MATH 1613 Plane Trigonometry Program/Gen Ed Elective	3 hours	
POLI 1113 American Government	3 hours		3 hours	
HUMANITIES COURSES		SECOND SEMESTER	15 TOTAL HOURS	
Electives	6 hours	ENGL 1213 English Composition II	3 hours	
One 3 hour course to be chosen from those listed with the International Dimension and 3 hours of humanities electives.		HIST 1483 American History to 1877 (OR) HIST 1493 American History Since 1877	3 hours	
MATHEMATICS COURSES		MATH 2145 Calculus I	5 hours	
*MATH 1513 College Algebra	3 hours	CHEM 1314 General Chemistry I	4 hours	
SCIENCE COURSES		THIRD SEMESTER	15 TOTAL HOURS	
CHEM 1314 General Chemistry I	4 hours	POLI 1113 American Government	3 hours	
One additional science with lab	4 hours	PHYS 2014 Engineering Physics (OR) PHYS 1114 General Physics I	4 hours	
COMPUTER SCIENCE COURSES		Humanities Elective	3 hours	
BSAD 1113 Digital/Financial Literacy (or other approved computer course)	3 hours	MATH 2155 Calculus II	5 hours	
ORIENTATION COURSES		FOURTH SEMESTER	14 TOTAL HOURS	
ORNT 1101 Freshman Orientation	1 hour	MATH 2613 Differential Equations	3 hours	
GENERAL EDUCATION ELECTIVE COURSES	4 hours	Humanities Elective	3 hours	
(3 of 4 hours for these electives are designated for MATH 1613 Plane Trigonometry; 1 hour can be combined with requirement for recommended electives below, or selected from course in Language Arts, Natural Science, Foreign Languages, Fine Arts, Humanities, Mathematics, Behavioral, or Social Sciences.)		Science Elective	4 hours	
PROGRAM REQUIREMENT COURSES	17 TOTAL HOURS	*Program/Gen Ed Electives (2 courses)	4 hours	
**MATH 2145 Calculus I	5 hours			
**MATH 2155 Calculus II	5 hours			
**MATH 2613 Differential Equations	3 hours			
**PHYS 2014 Engineering Physics (OR) PHYS 1114 General Physics I	4 hours			
RECOMMENDED PROGRAM ELECTIVE COURSES	6 TOTAL HOURS			
Select course from: Computer science, Physics, and Statistics. Other courses may be substituted with approval				
TOTAL CREDIT HOURS	60			
		This is a suggested sequence timeline only. A student may require more than four semesters to complete an Associate in Science degree.		
		**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 either foundational or college-level courses, whichever will lead to the greatest possibility of student success. Academic placement is determined either by A.C.T. test scores or by Accuplacer test scores. These tests are administered in the Testing Center at NOC. Based upon the scores, students may be required to take one or more courses for remediation in English, Math, or Reading, either prior to or concurrent with credit courses. See the NOC testing web page by clicking on the following link: ACT Northern Oklahoma College (http://www.noc.edu/act) for placement guidelines.		
		* Students scoring 26 or above on the math subsection of the ACT do not have to take MATH 1513 College Algebra. 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.		