Associate in Science Degree Northern Oklahoma College

Division of Science, Math, and Engineering

Mathematics and Physical Science-Mathematics Option

The Associate in Science degree program in Mathematics and Physical Science-Mathematics Option consists of 60 hours designed to provide the student with the first two years of general education and program requirements for transfer seamlessly to the Bachelor of Science degree in Mathematics at Northwestern Oklahoma State University.

Bachelor of Science Degree Northwestern Oklahoma State University

School of Arts and Sciences

Mathematics

Transfer students who have completed an Associate in Science degree in Mathematics from Northern Oklahoma College will have met the NWOSU General Education Requirements.

PROGRAM REQUIREMENTS	
GENERAL EDUCATION	
ENGL 1113 English Composition I 3	MA IOD DEOI
ENGL 1113 English Composition II 3	*MAJOR REQU *MATH 1613
HISTORY AND GOVERNMENT	*MATH 2013
	*MATH 2013
HIST 1483 American History to 1865 (or) HIST 1493 American History since 18653	*MATH 221.
POLI 1113 American National Government 3	MATH 3323
HUMANITIES	MATH 3053
Electives6	MATH 3033
*One 3-hour course to be chosen from those listed with International Dimension	MATH 3013
and 3 hours of humanities elective.	MATH 3043
MATHEMATICS	Electives cho
MATH 1513 College Algebra 3	MATH 30
SCIENCE	MATH 35
One Biological Science with Lab4	MATH 40
One Physical Science with Lab4	MATH 40
COMPUTER SCIENCE	MATH 45
CS 1113 Computer Concepts (or)	MATH 43
BSAD 1113 Digital/Financial Literacy 3	WIATII 4.
ORIENTATION	NOTE 1: Progr
ORNT 1101 Freshman Orientation 1	Algebra
GENERAL EDUCATION ELECTIVES4	Aigeora
MATH 1613 Plane Trigonometry	NOTE 2: Adva
Select courses from: Language Arts, Natural Sciences, Foreign Languages,	MATH 2215.
Fine Arts, Humanities, Mathematics, Behavioral or Social Sciences	WII 1111 2213.
Time Tites, Transanties, Maniematics, Benavioral of Social Sciences	*Students who
PROGRAM REQUIREMENTS13	Science in Math
MATH 2145 Calculus I5	requirements at
MATH 2145 Calculus II 5	requirements at
MATH 2613 Differential Equations3	
<u> </u>	
RECOMMENDED PROGRAM ELECTIVES10	
Select courses from: Computer Science, Physics and Statistics.	
TOTAL CREDIT HOURS60	
*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 and Trigonometry because of ACT scores or CLEP exam results are required to substitute 3.6 below the first of the state of the	

PROGRAM REQUIREMENTS

Credit Hours

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MAJOR REQUIREMENTS	46
*MATH 1613 Trigonometry	3
*MATH 2013 Statistics	3
*MATH 2215 Analytical Geometry & Calculus I	5
*MATH 2315 Analytical Geometry & Calculus II	5
MATH 3323 Multivariable Calculus	3
MATH 3053 Discrete Math	3
MATH 3013 Linear Algebra	3
MATH 3033 Probability & Statistics I	3
MATH 3043 Math Technology	3
Electives choses from:	15
MATH 3053 Modern Algebra	

513 College Geometry

033 Probability & Statistics II

203 Differential Equations

533 Math Models & Applications

333 History of Math

gram Specific General Education: MATH 1513 College

anced Standing tests are available in MATH 1513 and

complete these courses as part of the Associate in th and Physical Science-Mathematics Option degree t NOC are not required to take them again at NWOSU.

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.