Gregg Wadley College of Science and Health Professions (GWCSHP)

Mathematics
(AS Mathematics – BS Mathematics)
(Tahlequah)

NSU Bachelor of Science in Mathematics: Mathematics is the study of numbers and shapes and their many connections. These connections bring about more complex structures and areas of study such as graphs, functions, sets, probability, statistics, geometry, algebra, and calculus. The investigation of the connections found in Mathematics is a vital and integral part of the subject because it hits on the process of mathematics. Mathematical thinking is based on logical reasoning and critical thinking. Logical proof ties the connections together with a certainty that is exceedingly rare in other fields of human endeavor. All types of employers can benefit from hiring a person who has attained the discipline of mathematical thinking.

Major Guidelines / Regulations: For admission to the BS program, students must have completed ENGL 1113, ENGL 1213 with a grade of "C" or better; completed MATH 1513 with a grade of "C" or better or score 23 or higher on the Math ACT; satisfied the university's computer proficiency requirement; and achieved an overall GPA of 2.25 or higher. Students must achieve an overall GPA of 2.25 or higher. Students enrolled in classes offered by the GWCSHP are expected to behave according to those Standards of Professional Behavior, found on the GWCSHP website. Graduation with the BS degree requires that all core and major classes must be completed with a "C" or better and that 21 (of 42) credits in the BS core must be earned at NSU.

What it takes to complete a BS in Mathematics from NSU. If you don't complete your A.A. or A.S. at TCC, you will need to meet NSU's specific general education requirements. You must complete at least 124 hours to earn a bachelor's degree. Of those hours, 60 must be from a university (four-year school; 30-hours required from NSU), 40 must be junior and senior (3000/4000) level, and half of the hours (50%) in your major must be from NSU. You must also be both English and computer proficient. This means that you must pass ENGL 1113 Composition I and ENGL 1213 Composition II with a "C" or better and pass the designated computer proficiency class if needed. Therefore, when you transfer to NSU, you will likely need around 60 more hours to earn your bachelor's degree.

Transferring to NSU is a seamless process. Although you can transfer to NSU at any time in your academic career, the smoothest transition occurs if you have earned or will earn an A.A. or A.S. from TCC. This milestone will also meet your general education requirements at NSU (unless it is a specific NSU requirement for you to graduate).

How do my TCC classes transfer to NSU? Every class that you take at TCC will transfer to NSU. Each class counts in one of the following categories that make up a bachelor's degree: general education, major, minor, or free elective. Minors (18 hours) are a coherent set of courses in a discipline or interdisciplinary grouping other than a student's degree program. **This program requires a minor.** Free electives can be selected from any academic area. They allow you to explore academic interests outside of your major while counting toward the 124 hours you need to graduate. If you completed a class at TCC that does not meet one of the other specific requirements, it will count as a free elective. If you complete more than 64 hours at the associate degree level, all courses will transfer to NSU, but may be counted as electives. You must have 60 hours from a four-year institution to meet state requirements for graduation with a baccalaureate degree.

When can you start taking NSU classes? You can begin taking classes at NSU while you are completing your A.A. or A.S. at TCC. This is called dual enrollment and many students do this each semester. Consult an NSU academic advisor and a financial aid counselor to see how dual enrollment can work for you.

TCC Mathematics, AS to
NSU Mathematics, BS

Mathematics, AS
Freshman Year at Tulsa Community College

Fall Semester	Spring Semester
*CSCI 1203 Computer Concepts & Applications	CSYS 1203 Introduction to Computer Programming
ENGL 1113 Composition I	ENGL 1213 Composition II
HIST 1483 or HIST 1493 U.S. History	MATH 2114 Analytic Geometry & Calculus I or MATH 2124 Analytic Geometry & Calculus II
MATH 1715 Pre-Calculus I & II or MATH 2114 Analytic Geometry & Calculus I	MATH 2193 Elementary Statistics
	POLS 1113 American Federal Government
Total Hours Per Semester = 13-14	**Total Hours Per Semester = 16**

Notes: Computer Concepts & Applications (CSCI 1203) may be required for students who do not demonstrate computer proficiency. See TCC Catalog.

Mathematics, AS
Sophomore Year at Tulsa Community College

Fall Semester	Spring Semester
Humanities General Education Elective (6 hours)	COMM 1113 Public Speaking
MATH 2124 Analytic Geometry and Calculus II or MATH 2134 Analytic Geometry and Calculus III	MATH 2134 Analytic Geometry and Calculus III *(if not taken previous semester)*
PHYS 1114 Gen. Physics I or PHYS 2034 Eng. Physics I	MATH 2613 Elementary Differential Equations
General Education Required Elective (3 hours)	General Education Science with lab (4 hours) NSU recommends the following: PHYS 1214 Gen. Physics I or PHYS 2124 Eng. Physics II
	Recommended Electives (0-5 hours) NSU recommends the following: CSCI 2473 C Language
Total Hours Per Semester = 17	**Total Hours Per Semester = 17**

After completion of your TCC courses, have the TCC Registrar send an official transcript to the NSU Admissions Office. If you have completed all requirements for an Associate degree, make sure that designation is noted on your TCC official transcript before sending to NSU. If you have not completed the requirements for an Associate degree, talk with your TCC Academic Advisor about Reverse Transfer options to use NSU coursework to complete your TCC degree.

Mathematics, BS
Junior Year at Northeastern State University

Fall Semester	Spring Semester
MATH 3703 Introduction to Proof	MATH 3983 Linear Algebra
MATH Electives (3 hours)	MATH 4113 Differential Equations
Minor Courses (6 hours)	MATH Electives (3 hours)
Free Electives (3 hours)	Minor Courses (3 hours)
	Free Electives (3 hours)
Total Hours Per Semester = 15	**Total Hours Per Semester = 15**

Mathematics, BS
Senior Year at Northeastern State University

Fall Semester	Spring Semester
MATH 3713 Modern Algebra: Rings	MATH 3913 Introduction to Analysis
MATH 4723 Senior Seminar	MATH Electives (3 hours)
MATH Electives (3 hours)	Minor Courses (6 hours)
Minor Courses (3 hours)	Free Electives (4 hours)
Free Electives (3 hours)	
Total Hours Per Semester = 15	**Total Hours Per Semester = 16**

Total hours transferred from Tulsa Community College: **63-64**
Total hours needed from a four-year university to complete a Bachelor of Science in Mathematics: **61**
Total Degree Plan Hours: 124

For further information, contact Dr. Darryl Linde, Department Chair, Mathematics & Computer Science, 918-444-3809, linded@nsuok.edu or visit www.nsuok.edu/math