

Norfolk State University Bachelor of Science in Mathematics

Associate Transfer Degree Plan in Mathematics

COURSE REQUIREMENTS

Complete at VCCS					Complete at NSU		
BACHELOR'S DEGREE REQUIREMENT	SATISFIED BY				BACHELOR'S DEGREE REQUIREMENT		
Course	Credits	Gen ED*	CC Course	Notes	Course	Credits	Notes
SEM 101 (1 credit), SEM 102 (1 credit), and SEM 201 (1 credit)	1-2	A	SDV 100 College Success Skills or 101 Orientation	The Spartan Seminar Series will be waived for students who transfer with an associate degree or transfer 60 or more credits. Students will receive 1 or 2 credits based on the number of credits transferred from the VCCS course. Students may need to take an additional 1 or 2 credits at NSU to meet the 120-credit-hour minimum.	ENG 383, MUS 234 (Humanities, 3 credits) HIS 335, HIS 336, HRP 320, HIS 371 (Social Science, 3 credits)	6	Two courses from this group are required to satisfy the University's cultural perspectives requirement and are considered upper-division gen. ed. courses.
ENG 101	3	PUA	ENG 111 College Comp I		MTH 373	3	
ENG 102	3	UA	ENG 112 College Comp II or 113 Tech-Prof Writing		Applied Electives Third year: MTH 382 Introduction to Applied Mathematics or PHY 3xx (3 hours) Fourth year: MTH 402 Numerical Analysis II MTH 474 Complex Variables MTH 484 Topics in Applied Mathematics PHY 3xx PHY 4xx	12	

					EEN 3xx (9 hours)		
Fulfills gen. ed. Art or Humanities requirement	3	PUA	Any UCGS Art or Humanities	These two courses must come from two different disciplines.	MTH 273 Mathematical Foundations	3	
Fulfills gen. ed. Art, Humanities, or Literature requirement, such as ENG 207, FIA 201, or MUS 301	3	UA	Any UCGS Art, Humanities, or Literature		MTH 331 Algebraic Structures	3	
Fulfills gen. ed. History or Social Science requirement, such as HIS 101, HIS 103, SOC 101, BUS 175, or ECN 200	3	PUA	Any UCGS History or Social Science		MTH 351 Probability & Statistics I (if MTH 283 Probability & Statistics was not taken at VCCS)	0-3	
Fulfills gen. ed. Natural Sciences requirement, such as BIO 100 and BIO 100L	4	PUA	Any UCGS Natural Sciences		MTH 352 Probability & Statistics II	3	
PHY 152 and PHY 152L	4		PHY 201 General College Physics I or PHY 241 University Physics I		MTH 401 Numerical Analysis I	3	
CSC 169	3	UA	CSC 110 Principles of Computer Science or ITE 152 Intro to Digital & Information Literacy & Computer Applications	A course in computer literacy or digital telecommunications is required.	MTH 473 Real Analysis	3	
MTH 184	4	PUA	MTH 263 Calc I		MTH 496 Mathematics Seminar I	2	
MTH 251	4		MTH 264 Calc II		MTH 497 Mathematics Seminar II	2	
MTH 252	4		MTH 265 Calc III		ENG 203 or ENG 303 Advanced Communication Skills or Professional & Technical Writing	3	
MTH 300 MTH 372	6		MTH 266 Linear Algebra MTH 267 Diff Equations		ENG 285	3	A Course in Public Speaking is a gen. ed. requirement. This can be taken at the

							community college if possible (CST 100 or CST 110).
CSC 170	3		CSC 221 Intro to Problem Solving & Programming		Science Elective (200 level or above)	3	
PHY 153 and PHY 153L	4		PHY 202 General College Physics II or PHY 242 University Physics II		General Electives	6	Recommend two courses
CSC 200 or above	6		CSC 223 Data Structures and Analysis of Algorithms, CSC 222 Object-Oriented Programming, CSC 221 Introduction to Problem Solving and Programming, CSC 215 Computer Systems, CSC 210 Programming with C++, CSC 208 Introduction to Discrete Structures, or CSC 205 Computer Organization.	Additional transfer electives, if needed to meet 60 credits. Two courses may be taken from that list.	PED 100 and HED 100	3	Students may take these courses at VCCS if possible.
MTH 151 MTH 153	0		Math prerequisites (MTH 161 Pre-Calculus I / MTH 162 Pre-Calculus II, MTH 167 Pre-Calculus with Trigonometry)	These courses may be prerequisites, but do not count towards completing the BS.AP or BS.TC degree.			
CREDITS PRE-TRANSFER: 60-62					CREDITS POST-TRANSFER: 58-62		
* A = Completion of the Associate Degree satisfies this General Education Requirement. U = This course satisfies a Uniform Certificate of General Studies requirement. P = This course satisfies a Passport requirement.							

TRANSFER GUIDANCE

Guaranteed Admission Agreement between NSU and the VCCS

This degree program is covered by NSU's Guaranteed Admission Agreement.

By meeting the following criteria, you are guaranteed admission to the B.S. in Mathematics:

- Earn a transfer associate degree based on the Mathematics curriculum.
- Earn a minimum of 2.0 GPA for the associate degree.
- A maximum of 63 credits will transfer and apply toward a bachelor's degree requirements.
- Submit your transfer application for admission by March 1, including an unofficial transcript.
- Request an official transcript to be sent upon completing the associate degree.
- Transfer within four years of first enrolling at the community college and within one year of completing the appropriate associate degree.

Please visit the www.TransferVirginia.org portal to find course requirements for different majors (Transfer Tools) and Transfer Guides that outline course requirements for specific majors (Resource Center).

IMPORTANT LINKS & DATES:

- **University Transfer Center:** Transfer Admissions & Services <https://www.nsu.edu/transfer>
- **Register Intent to Transfer:** By the end of your first semester at the Community College through College Connect at www.TransferVirginia.org
- **Admission Application:** By May 1 at <https://www.nsu.edu/Admissions-Aid/Apply-Online>
- **Financial Aid:** <https://www.nsu.edu/tuition-and-financial-aid>
- **FAFSA - Free Application for Federal Student Aid:** By October 1 at <https://studentaid.gov/h/apply-for-aid/fafsa>

WHAT SHOULD I CONSIDER WHEN SELECTING COURSES?

- Completing the 100 to 200 level required courses for math, engineering, computer science, and chemistry will ensure that credits will transfer for the Math degree.
- All majors complete the prerequisites, or their equivalents, prior to enrolling in more advanced mathematics courses.
- Create a schedule for all required courses, pay attention to prerequisites and when courses are offered, complete your first math and English courses in your first year. For help, see Transfer Steps and Resource Center at www.TransferVirginia.org.
- Connect with an advisor at your community college and Norfolk State University within your first year. College Connect available in your account at www.TransferVirginia.org.

IS THIS DEGREE RIGHT FOR ME?

- This program requires calculus for engineering and science. At the two-year college, students are expected to complete Calculus I and II with a "C" or better.
- Grades of C or higher are required in all Math courses that contribute to the major.

WHAT IS THE IMPACT ON MY DEGREE OF WORK I HAVE ALREADY COMPLETED?

- **Associate Transfer Degree Completion:** Completion of a transfer-level associate degree satisfies all lower-division general education requirements.

- **Dual Enrollment – Completion of Associate Degree in HS:** The agreement of guaranteed admission into the college applies to students earning an associate degree concurrent with high school who have completed a transfer-approved degree with a minimum of 45 credits completed through a Virginia Community College, with a GPA of 2.0 or higher and that meets all requirements outlined in the Transfer Guide.
- **Credit for Prior Learning:** All course credits that were awarded by the two-year institution for equivalent prior learning experiences (IB, AP, CLEP, Military, etc.) will transfer based on the transfer equivalence for the course awarded.
- **Catalog Year:** Catalog year determined by first semester of attendance at the community college post high school graduation. For students maintaining continuous enrollment, this entitlement will be in effect for a minimum of four years from the time of the student's first enrollment at the two-year institution. Students must enroll at the four-year institution within one year of completing their associate degree.

IS THIS COLLEGE RIGHT FOR ME?

- NSU has been ranked by U.S. News and World Report as one of the Top 20 HBCUs in the nation.
- It is close to downtown Norfolk and within driving distance of Virginia Beach.
- On-campus housing is available. Weekend/evening/summer courses are available, and online degree options are available for several programs.
- NSU is a military-friendly institution.
- Learn more about our college at www.TransferVirginia.org.

DID YOU KNOW THAT...

- Completing your Associate transfer degree post-high school satisfies all lower division general education requirements and increases the chance of completing your bachelor's degree?
- Exceeding 3 years or 90 credits at your community college means you may have exhausted your financial aid at that college and have limited your future financial aid at NSU?

WHAT CAN I DO WITH THIS DEGREE?

- Employment for mathematicians and statisticians is projected to grow by 33% over the next decade, according to the U.S. Bureau of Labor Statistics. That's over three times the average for all other occupations.
- Some popular careers you'll be prepared to pursue with a bachelor's in mathematics include financial analyst, market research analyst, financial manager, actuary, economist, teacher, budget analyst, accountant, and auditor.
- Explore possible careers, salaries, and job outlook at www.TransferVirginia.org.

PROGRAM SUCCESSES & HIGHLIGHTS

- Our program has close mentoring with faculty for each undergraduate major for each year with emphasis on undergraduate research experiences.
- We prepare students for graduate programs and the job market with skills in applied mathematics, statistics, and data science.
- Many of our Mathematics majors are accepted into prestigious graduate programs to continue improving their math skills and increasing their career potential.

WHAT ARE MY CHANCES FOR GETTING ACCEPTED?

- NSU accepts close to 90 percent of students who complete an application.

- The average GPA of students admitted is a 2.9.
- Learn more about applying at www.TransferVirginia.org.

DO MORE WITH YOUR DEGREE!

- Double majors are encouraged for those considering engineering with applied math or computer science and applied math.
- The curriculum emphasizes two areas: Applied Mathematics and Mathematics with Teacher Certification for those seeking to teach mathematics in public schools.
- The Department also offers a Dual Degree Program and a Minor Degree Program. The Dual Degree Program allows students to complete a primary major in one discipline and then

complete a second/dual degree in mathematics. The Minor Degree Program allows students to minor in mathematics. Students whose major is in the applied sciences or engineering typically choose the Mathematics Minor.

- The Master of Arts in Teaching (MAT) and the Master of Arts in Urban Education (MASAC) degrees are offered through the School of Education with concentrations in mathematics.

OTHER THAN CLASSES, ARE THERE OTHER PROGRAM REQUIREMENTS?

- Mathematics majors must pass a comprehensive examination covering the content of the core mathematics courses.