

Computer Science Comprehensive plus Math Minor*

Adding a math minor to your CS degree is one of the most beneficial combinations for a Computer Science major, especially if you are interested in machine learning, cryptography, or research. Your math minor will give you a good foundation in set theory, logic, and discrete probability, as well as a high level of mathematical understanding.

If you would like to discuss the possibility of adding a math minor to your Computer Science Comprehensive degree, please contact Barton Willis, PhD, Department of Mathematics and Statistics, Discovery Hall, Room 368; email or phone: willisb@unk.edu or 308-865-8868.

For your General Studies LOPER 4 requirement take

To complete the Mathematics Minor take

MATH 202 Calculus II with Analytic Geometry (fall and spring, prerequisite: MATH 115)
MATH 250 Foundations of Math (fall and spring, prerequisite: MATH 115)
MATH 280 Linear Algebra (spring only, prerequisite: MATH 115)
MATH 413 Discrete Mathematics (fall only, prerequisite: MATH 250)
STAT 345 Applied Statistics I (fall only, prerequisite: MATH 123 or MATH 115)
3 credits

These are the classes that we recommend for a computer science major, but your academic advisor can assist you with choosing alternatives to MATH 280, MATH 413, and STAT 345.

Suggested mathematics course sequence

	Fall	Spring
First Year	MATH 115	MATH 202, MATH 280
Second Year	STAT 345	MATH 250
Third Year	MATH 413	

Once you declare a mathematics minor, your academic advisor will be happy to help you build a four-year plan for earning a minor in mathematics that fits with your other classes. If you start on a path toward earning a math minor, but later decide to earn a Mathematics Bachelor of Science, all the mathematics and statistics classes listed here will count toward the Bachelor of Science degree.

^{*}This plan is up to date for the 2023–2024 catalog. The designation of a fall or spring class is anticipated, but is subject to change (updated October 23, 2023).



Computer Science Comprehensive plus Mathematics Bachelor of Science*

Adding a math major to your CS degree is one of the most beneficial combinations for a Computer Science degree, especially if you are interested in machine learning, cryptography, or research. Your math major will give you a solid foundation in set theory, logic, and discrete probability, as well providing you with a high level of mathematical understanding.

If you would like to discuss the possibility of adding a math major to your Computer Science Comprehensive degree, please contact Barton Willis, PhD, Department of Mathematics and Statistics, Discovery Hall, Room 368; email or phone: willisb@unk.edu or 308-865-8868.

For your General Studies LOPER 4 requirement take

• MATH 115 Calculus I with Analytic Geometry (fall and spring) 5 credi
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For your LOPER 8 requirement take

• PHYS 275 (corerequisite: MATH 115	i) 3 credits
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For your Program Specific Requirement take

For your Math Core requirements take

• MATH 202 Calculus II with Analytic Geometry (fall and spring, prerequisite: MATH 115)	5 credits
• MATH 250 Foundations of Math (fall and spring, prerequisite: MATH 115)	3 credits
• MATH 280 Linear Algebra (spring only, prerequisite: MATH 115)	3 credits
• MATH 260 Calculus III (fall and spring, prerequisite: MATH 202)	5 credits
• MATH 305 Differential Equations (spring only, prerequisite: MATH 260)	3 credits
• MATH 350 Abstract Algebra (spring only, prerequisite: MATH 250)	3 credits
• MATH 365 Complex Analysis (spring only, prerequisite: MATH 260)	3 credits
• MATH 460 Advanced Calculus I (fall only, prerequisite: MATH 250)	3 credits

For your Math Electives take

• MATH 413 Discrete Mathematics (fall only, prerequisite: MATH 250)	3 credits
• STAT 441 Probability and Statistics (spring only, prerequisite: MATH 260)	3 credits

There are other course options, but classes are recommended.

Suggested mathematics course sequence

	Fall	Spring
First Year	MATH 115	MATH 202
Second Year	MATH 260, MATH 250	MATH 305, math elective
Third Year	MATH 460	MATH 365, MATH 280
Fourth Year	math elective	MATH 350

Your mathematics academic advisor will be happy to help you build a four-year plan for earning a Mathematics Bachelor of Science degree.

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Cyber Security Operations Comprehensive, Bachelor of Science plus Math Minor*

Adding a math minor to your CS degree is one of the most beneficial degree combinations for a Computer Science major, especially if you are interested in machine learning, cryptography, or research. Your math minor will give you a good foundation in set theory, logic, and discrete probability, as well providing you with a high level of mathematical understanding. This guide shows you how to choose the electives in your program to also earn a math minor. The nineteen additional credits needed to earn a mathematics minor will partially fulfill the 25 credits of unrestricted electives required by the Cyber Security Operations Comprehensive degree.

If you would like to discuss the possibility of adding a math major to your Cyber Security Operations Comprehensive, please contact Barton Willis, PhD, Department of Mathematics and Statistics, Discovery Hall, Room 368; email or phone: willisb@unk.edu or 308-865-8868.

For your General Studies LOPER 4 requirement take

• MATH 115 Calculus I with Analytic Geometry (fall and spring) 5 credits

To complete the Mathematics Minor take

MATH 202 Calculus II with Analytic Geometry (fall and spring, prerequisite: MATH 115)
MATH 250 Foundations of Math (fall and spring, prerequisite: MATH 115)
MATH 280 Linear Algebra (spring only, prerequisite: MATH 115)
STAT 345 Applied Statistics I (fall only, prerequisite: MATH 123 or MATH 115)
MATH 413 Discrete Mathematics (fall only, prerequisite: MATH 250)
3 credits

For alternatives to STAT 345 and MATH 413, consult the catalog and talk with your academic advisors.

Suggested mathematics course sequence

	Fall	Spring
First Year	MATH 115	MATH 202, MATH 280
Second Year	STAT 345	MATH 250
Third Year	MATH 413	

Once you declare a mathematics minor, your academic advisor will be happy to help you build a four-year plan for earning a minor in mathematics that fits with your other classes. If you start on a path toward earning a math minor, but latter decide to earn a Mathematics Bachelor of Science, all the mathematics and statistics classes listed here will count toward the Bachelor of Science degree.

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Physics Comprehensive plus Math Minor*

Success in Physics classes, especially Analytic Mechanics (PHYS 402), Electricity & Magnetism (PHYS 407), and Quantum Mechanics (PHYS 419) require a firm understanding of mathematics. That might help explain why nationwide about one-third of undergraduate physics majors also earn a degree in mathematics. If you choose to attend a graduate program in physics, earning a math minor will help you be successful with the math intense first year core physics graduate classes.

The nine credits of mathematics classes beyond the requirements for your Physics Comprehensive will count toward your required 20 credits of unrestricted electives.

If you would like to discuss the possibility of adding a math minor to your Physics Comprehensive, please contact Barton Willis, PhD, Department of Mathematics and Statistics, Discovery Hall, Room 368; email or phone: willisb@unk.edu or 308-865-8868.

For your General Studies LOPER 4 requirement take

For your BS Science-related course requirements take

Physics Comprehensive Math Requirements take

For your Math minor, take

Suggested mathematics course sequence

	Fall	Spring
First Year	MATH 115	MATH 202
Second Year	MATH 260, MATH 250	MATH 305

Once you declare a mathematics minor, your academic advisor will be happy to help you build a four-year plan. If you start on a path toward earning a math minor, but latter decide to earn a Mathematics Bachelor of Science, all the math classes listed here will count toward the Bachelor of Science degree.

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Adding a Math Minor to your Major*

As you may know, at UNK every Bachelor of Science program of study requires a second major or minor. So supplementing your major with a math minor is not only a great way to build your résumé, but it also fulfills a degree requirement.

By choosing to take Calculus I with Analytic Geometry (five credits) to satisfy your LOPER 4 General Studies requirement, you will gain five credits out of a required twenty-four for a mathematics minor. That leaves only nineteen credits to complete a math minor. Of these remaining credits, six are electives, allowing you to choose from classes ranging from History of Mathematics to Statistics.

If you would like to discuss the possibility of adding a math minor to your program of study, please contact Barton Willis, PhD, Department of Mathematics and Statistics, Discovery Hall, Room 368; email or phone: willisb@unk.edu or 308-865-8868.

For your General Studies LOPER 4 requirement take

For your Math minor, take

For your Math minor electives take

From the following, take at least eight credits from

• MATH 280 Linear Algebra (spring only, prerequisite: MATH 115)	3 credits
• MATH 260 Calculus III (fall and spring, prerequisite: MATH 202)	5 credits
• MATH 310 College Geometry (fall only, prerequisite: MATH 250)	3 credits
• MATH 350 Abstract Algebra (spring only, prerequisite: MATH 250)	3 credits
• MATH 404 Theory of Numbers (spring only, prerequisite: MATH 250)	3 credits
• MATH 413 Discrete Mathematics (fall only, prerequisite: MATH 250)	3 credits
• MATH 460 Advanced Calculus I (fall only, prerequisite: MATH 250)	3 credits
• MATH 305 Differential Equations (spring only, prerequisite: MATH 260)	3 credits
• STAT 345 Applied Statistics I (fall only, prerequisite: MATH 123 or MATH 115)	
• MATH 365 Complex Analysis (spring only, prerequisite: MATH 260)	3 credits
• MATH 400 History of Mathematics (fall only, prerequisite: MATH 115)	
• MATH 420 Numerical Analysis (spring only, prerequisite: MATH 260)	
• STAT 441 Probability and Statistics (spring only, prerequisite: MATH 260)	

Suggested mathematics course sequence

	Fall	Spring
First Year	MATH 115	MATH 202
Second Year	MATH 250	math elective
Third Year	math elective	math elective (if needed)

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Adding a Math Major to your Major*

As you may know, at UNK every Bachelor of Science program of study requires a second major or minor. So supplementing your program of study with a math major is not only a great way to build your résumé, but it also fulfills a degree requirement.

If you would like to discuss the possibility of adding a math major to your program of study, please contact Barton Willis, PhD, Department of Mathematics and Statistics, Discovery Hall, Room 368; email or phone: willisb@unk.edu or 308-865-8868.

For your General Studies LOPER 4 requirement take

For your Math major requirements take

• MATH 202 Calculus II with Analytic Geometry (fall and spring, prerequisite: MATH 115)	5 credits
• MATH 260 Calculus III (fall and spring, prerequisite: MATH 202)	5 credits
• MATH 280 Linear Algebra (spring only, prerequisite: MATH 115)	3 credits
• MATH 250 Foundations of Math (fall and spring, prerequisite: MATH 115)	3 credits
• MATH 305 Differential Equations (spring only, prerequisite: MATH 260)	3 credits
• MATH 350 Abstract Algebra (spring only, prerequisite: MATH 250)	3 credits
• MATH 365 Complex Analysis (spring only, prerequisite: MATH 260)	3 credits
• MATH 460 Advanced Calculus I (fall only, prerequisite: MATH 250)	3 credits

For your Math major electives take

From the following, take at least six credits from

• MATH 310 College Geometry (fall only, prerequisite: MATH 250)	3 credits
• MATH 400 History of Mathematics (fall only, prerequisite: MATH 115)	3 credits
• MATH 404 Theory of Numbers (spring only, prerequisite: MATH 250)	3 credits
• MATH 413 Discrete Mathematics (fall only, prerequisite: MATH 250)	3 credits
• MATH 420 Numerical Analysis (spring only, prerequisite: MATH 260)	3 credits
• STAT 441 Probability and Statistics (spring only, prerequisite: MATH 260)	3 credits

Suggested mathematics course sequence

	Fall	Spring
First Year	MATH 115	MATH 202
Second Year	MATH 260, MATH 250	MATH 305, math elective
Third Year	MATH 460	MATH 365, MATH 280
Fourth Year	math elective	MATH 350

Once you declare a mathematics major, your academic advisor will be happy to help you build a four-year plan for earning a major in mathematics.

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