



**Aims2UNC Curriculum Map\***  
**Computer Science A.S. / Mathematics B.S. –**  
**Computer Science Concentration**  
**2023-2024 Catalog**  
**Degree Requirements – 120 Credits**

\*Curriculum Map for students transitioning from Aims Community College to the University of Northern Colorado for the purpose of completing a bachelor’s degree. An AA/AS degree from Aims will result in a waiver of UNC’s Liberal Arts Curriculum (general education) and the transfer of at least 60 credits depending on course grades from Aims. Courses with grades below a C- will not transfer to UNC, which could result in a transfer of fewer than 60 credits. Please note that course offerings are subject to availability and Curriculum Maps are subject to change. Please see Aims2UNC advisor for appropriate sequence of Aims courses and further information.

**AIMS COMMUNITY COLLEGE – 60 Credits**

YEAR 1 – FALL: 15 credits		YEAR 1 – SPRING: 15 credits	
ENG 1021 English Composition I (GT-CO1) <b>*ENG 122 College Composition</b>	3 credits	ENG 1022 English Composition II (GT-CO2) <b>*ENG 123 College Research Paper</b>	3 credits
MAT 2410 Calculus I (GT-MA1) <b>*MATH 131 Calculus I</b>	5 credits	MAT 2420 Calculus II (GT-MA1) <b>*MATH 132 Calculus II</b>	5 credits
CSC 1060 Computer Science I <b>*CS 1XX (Substitute for CS 120)</b>	4 credits	CSC 1061 Computer Science II <b>*CS 1XX (Substitute for CS 160)</b>	4 credits
Arts & Humanities (GT-AH*)	3 credits	Arts & Humanities (GT-AH*)	3 credits
<b>YEAR 2 – FALL: 14 credits</b>		<b>YEAR 2 – SPRING: 16 credits</b>	
CSC 2025 Computer Architecture/Assembly	4 credits	CSC 1065 Discrete Structures <b>*MATH 228 Discrete Mathematics</b>	4 credits
History (GT-HI1)	3 credits	Natural & Physical Sciences without Lab (GT-SC2)	3 credits
Natural & Physical Sciences with Lab (GT-SC1)	4 credits	Social & Behavioral Sciences (GT-SS*)	3 credits
Social & Behavioral Sciences (GT-SS*)	3 credits	Elective	6 credits

**UNIVERSITY OF NORTHERN COLORADO – 60 Credits**

YEAR 3 – FALL: 15 credits		YEAR 3 – SPRING: 15 credits	
CS 200 Object-Oriented Analysis, Design, and Programming	3 credits	CS 301 Algorithms and Data Structures	3 credits
MATH 102 Success in Math	3 credits	MATH 221 Elementary Linear Algebra	3 credits
MATH 233 Calculus III	3 credits	Major Elective	3 credits
MATH 350 Probability and Statistics	3 credits	Electives	6 credits
MATH 495 Topics in Mathematics	3 credits		
<b>YEAR 4 – FALL: 15 credits</b>		<b>YEAR 4 – SPRING: 15 credits</b>	
CS 454 Data Mining and Knowledge Discovery	3 credits	CS 456 Neural Networks and Deep Learning	3 credits
MATH 335 Differential Equations	3 credits	Major Elective	3 credits
MATH 495 Topics in Mathematics	3 credits	Electives	9 credits
Major Elective	3 credits		
Elective	3 credits		

\*\*For a full listing of approved Guaranteed Transfer (GT) courses in these categories please refer to the [current catalog](#).

## Contact Information –

Department: School of Mathematical Sciences

Website: [www.unco.edu/nhs/mathematical-sciences/](http://www.unco.edu/nhs/mathematical-sciences/)

Phone: 970-351-2820

## Program Admission Requirements –

Academic Good Standing.

## Notes –

Note that CSC 1060 and CSC 1061 will transfer either as CS 120 and CS 160 or CS 160 and CS 200 depending on the language used in the sequence. Here, we have assumed the first possibilities.

\* MATH 102 is a recommended elective

\*\* CS 454 is only offered in Odd numbered Fall Semesters, CS 456 is only offered in Even Spring semesters.

\*\*\* MATH 495 is only offered in Odd Fall semesters

This four-year plan is a recommended schedule to complete your bachelor's degree in 4 years. Every UNC student must meet the following requirements in order to graduate with a bachelor's degree: earn a minimum of 120 semester credit hours; possess a minimum of a 2.00 cumulative grade point average; meet all degree requirements in the student's major field of study. Each major and/or concentration may have additional requirements necessary for graduation. Students must consult with their major advisor to receive information on any additional graduation requirements. View the [UNC Undergraduate Catalog](#) for current degree requirements.