



**Colorado Community College to UNC Transfer Guide\***  
**Mathematics A.S. / Mathematics B.S. – Computer Science**  
 2022-2023 Catalog  
 Degree Requirements – 120 Credits

\*Guide for students transferring to the University of Northern Colorado from a Colorado community college for the purpose of completing a bachelor's degree. Courses marked as **(\*bold)** are UNC equivalent courses (if applicable) upon transfer. UNC Liberal Arts Curriculum (LAC) is waived with completion of AA/AS degree (if an AA/AS degree is not completed, additional liberal arts courses may be required). This guide is based on UNC degree and Colorado general education requirements from the above catalog term.

This four-year plan is a **recommended schedule** and not reflective of every student's individual academic context. Some requirements may vary by college. Some degrees have Statewide Transfer Articulation Agreements in place; please see <https://cdhe.colorado.gov/transfer-degrees> for details. This guide is for planning purposes only. Students should consult with their academic advisor for course sequence guidance.

COMMUNITY COLLEGE – 60 Credits			
YEAR 1 – FALL: 15 credits		YEAR 1 – SPRING: 15 credits	
ENG 1021 English Composition I (GT-CO1) or ENG 1022 English Composition II (GT-CO2) <b>*ENG 122 College Composition or ENG 123 College Research Paper</b>	3 credits	ENG 1022 English Composition II (GT-CO2) or approved GT-CO3 course <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	Arts & Humanities (GT-AH*)	3 credits
COM 1150 Public Speaking or COM 1250 Interpersonal Communications (GT-SS3) <b>*COMM 100 Basics of Public Speaking or COMM 220 Interpersonal Communication</b>	3 credits	Elective	4 credits
YEAR 2 – FALL: 15 credits		YEAR 2 – SPRING: 15 credits	
MAT 2430 Calculus III (GT-MA1) <b>*MATH 233 Calculus III</b>	4 credits	PHY 2112 Calculus-Based Physics II (GT-SC1) <b>*PHYS 241 General Physics II</b>	5 credits
PHY 2111 Calculus-Based Physics (GT-SC1) <b>*PHYS 240 General Physics I</b>	5 credits	Arts & Humanities (GT-AH*)	3 credits
Arts & Humanities (GT-AH*)	3 credits	History (GT-HI1)	3 credits
Social & Behavioral Sciences (GT-SS*)	3 credits	Social & Behavioral Sciences (GT-SS*)	3 credits
		Elective	1 credit
UNIVERSITY OF NORTHERN COLORADO – 60 Credits			
YEAR 3 – FALL: 15 credits		YEAR 3 – SPRING: 15 credits	
CS 160 Structured Programming	3 credits	CS 301 Algorithms and Data Structures	3 credits
MATH 102 Success in Math.**	1 credit	MATH 221 Elementary Linear Algebra	3 credits
MATH 228 Discrete Mathematics	3 credits	Major Electives	6 credits
MATH 335 Differential Equations	3 credits	Elective	3 credits
Electives	5 credits		
YEAR 4 – FALL: 15 credits		YEAR 4 – SPRING: 15 credits	
CS 200 Object-Oriented Analysis, Design, and Programming	3 credits	CS 456 Neural Networks and Deep Learning** or Major Elective	3 credits
CS 454 Data Mining and Knowledge Discovery** or Major Elective	3 credits	Major Elective	3 credits
MATH 350 Probability and Statistics	4 credits	Electives	9 credits

MATH 495 Topics in Math*	3 credits		
Electives	2 credits		

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.

**Contact Information –**

Department: School of Mathematical Sciences

Website: <https://www.unco.edu/nhs/mathematical-sciences/>

Phone: 970-351-2820

**Program Admission Requirements –**

Academic Good Standing.

For information about admission to the University of Northern Colorado, please visit <https://www.unco.edu/admissions/>.

**Notes –**

\* MATH 495 is only offered every odd Fall; MATH 375 is only offered every odd Spring.

\*\* MATH 102 is a recommended elective.

\*\*\* CS 454 is only offered every odd Fall; CS 456 is only offered every even Spring.