



Colorado Community College to UNC Transfer Guide*
Computer Science A.S. / Mathematics B.S. – Pure & Applied
Mathematical Sciences
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) *ENG 122 College Composition or ENG 123 College Research Paper	3 credits	ENG 1022 English Composition II (GT-CO2) or approved GT-CO3 course *ENG 123 College Research Paper	3 credits
MAT 2410 Calculus I (GT-MA1) *MATH 131 Calculus I	5 credits	MAT 2420 Calculus II (GT-MA1) *MATH 132 Calculus II	5 credits
CSC 1060 Computer Science I *CS 1XX (Substitute for CS 120*)	4 credits	CSC 1061 Computer Science II *CS 1XX (Substitute for CS 160*)	4 credits
Arts & Humanities (GT-AH*)	3 credits	Arts & Humanities (GT-AH*)	3 credits
YEAR 2 – FALL: 14 credits		YEAR 2 – SPRING: 16 credits	
CSC 2025 Computer Architecture/Assembly	4 credits	CSC 1065 Discrete Structures *MATH 228 Discrete Mathematics	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	Electives	6 credits
UNIVERSITY OF NORTHERN COLORADO – 60 Credits			
YEAR 3 – FALL: 15-16 credits		YEAR 3 – SPRING: 15 credits	
MATH 102 Success in Math.**	1 credit	MATH 221 Elementary Linear Algebra	3 credits
MATH 233 Calculus III	4 credits	MATH 460 Intro to Complex Analysis*** or Elective	3 credits
MATH 350 Elem Probability Theory	4 credits	Major Elective	3 credits
MATH 431 Basic Analysis I*** or Elective	3-4 credits	Electives	6 credits
MATH 495 Topics in Math*** or Elective	3 credits		
YEAR 4 – FALL: 14-15 credits		YEAR 4 – SPRING: 15 credits	
MATH 321 Intro. to Abstract Algebra I	3 credits	MATH 460 Intro to Complex Analysis*** or Elective	3 credits
MATH 335 Differential Equations	3 credits	Major Electives	9 credits
MATH 431 Basic Analysis I*** or Elective	3-4 credits	Elective	3 credits
MATH 495 Topics in Math*** or Elective	3 credits		
Elective	2-3 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 –

* 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.

** MATH 431 is only offered in Odd Fall semesters, MATH 495 is only offered in Odd Fall semesters; MATH 460 is only offered in Even Spring semesters.