

## TRANSFER GUIDE AND PLANNING WORKSHEET

### Colorado Community Colleges University of Northern Colorado Bachelor of Science Degree – Mathematics: Applied Mathematical Sciences

This planning worksheet represents a guide for community college students transferring to the University of Northern Colorado and majoring in Mathematics: Applied Mathematical Sciences. This transfer guide can be used in two ways:

- If the student completes an Associate of Arts degree or an Associate of Science degree at a Colorado community/junior college, this Transfer Guide identifies the courses a student needs to complete (with a C- or higher) at the community/junior college in order to be able to finish the designated baccalaureate degree in no more than 60 credits beyond the 60 credits required to complete the Associate degree. In this role, the planning worksheet serves as a “60+60” transfer guide. Under Colorado policy, students who complete an Associate of Arts or an Associate of Science degree at a Colorado community/junior college **and are admitted to a public 4-year college or university within Colorado** are also guaranteed: the full transfer of a minimum of 60 credits toward a baccalaureate degree at a Colorado institution of higher education, completion of the lower-division component of the receiving institution’s core curriculum, and junior standing. If more than 60 college-level credits are taken at the community/junior college, some loss of transfer credit may occur and students may not be able to complete this baccalaureate degree in 120 credits.
- If the student intends to transfer prior to completing an Associate of Arts or an Associate of Science degree, this Transfer Guide should still be used to identify the courses that can most effectively prepare them for efficiently completing the designated major at the institution to which they are transferring. While not completing the required Associate degree eliminates the guarantees described above, all the individual general education courses identified below in Section I are guaranteed to transfer and to count toward fulfilling the receiving institution’s lower division general education requirements.

Community college students seeking to transfer under the CCHE ‘60+60’ guaranteed graduation policies described above must complete all required courses (listed as only option or as required) within the first 60 semester hours at the community college and complete an Associate of Arts or an Associate of Science degree. Completion of an associate degree does not assure admission to any University of Northern Colorado degree program.

For additional information on CCHE transfer policies and GT-Pathways guaranteed transfer of general education credit, visit <http://highered.colorado.gov/Academics/Transfers/>

#### **ASSOCIATE OF SCIENCE REQUIREMENTS (60 Credits):**

Where possible, choose ‘Required’ (Sections I and II) and ‘Best Choice’ (Section III) courses to apply toward associate degree general education and electives course work.

#### **I. Associate of SCIENCE General Education Courses**

Communication (6 credit hours)	Cr-Hrs	Grade

Mathematics (3 credit hours)	Cr-Hrs	Grade
<b>MAT 201 Calculus I</b>	5	

<b>Arts &amp; Humanities, (9 credit hrs)</b> Select three courses, with no more than two courses from any one category.	<b>Cr-Hrs</b>	<b>Grade</b>
Arts and Expression (AH1) –		
Literature and Humanities (AH2) –		
Ways of Thinking (AH3) –		
Foreign Language (AH4) –		

<b>Social and Behavioral Sciences (9 credit hours)</b> Select three courses, at least one of which must be in the history (HI1) category, with no more than 2 courses from any one category.	<b>Cr-Hrs</b>	<b>Grade</b>
History (HI1) –		
Economic or Political Systems (SS1) –		
Geography (SS2) –		
Human Behavior, Culture, or Social Frameworks (SS3) –		

<b>Physical and Life Sciences (7 credit hours)</b> Select two courses, at least one with laboratory (SC1)	<b>Cr-Hrs</b>	<b>Grade</b>

<b>Speech (3 credit hours)</b> Select COM 115 or COM 125. Speech is a CCCS graduation requirement, not part of GT-Pathways.	<b>Cr-Hrs</b>	<b>Grade</b>
COM 115 (recommended) or COM 125	3	

<b>Total General Education:</b>	<b>Cr-Hrs</b>
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## II. Required Courses for UNC Mathematics: Applied Mathematical Sciences Major

To be eligible for the CCHE '60+60' guaranteed transfer program, all required courses below must be satisfactorily completed as part of AS degree within the 60 semester hour maximum.

Required Courses	Cr Hrs	Grade
<b>CSC 160 Computer Science I</b>	4	
<b>CSC 161 Computer Science II</b>	4	
<b>MAT 202 Calculus II</b>	5	
<b>MAT 203 Calculus III</b>	4	

## III. Elective 'Best Choice' Courses for Transfer to UNC Mathematics: Applied Mathematical Sciences Major

After completing all required courses in Sections I and II, select 'Best Choice' courses below to complete the 60 credit hour AS degree. These 'Best Choices' courses facilitate graduating from UNC with a major in Mathematics: Applied Mathematical Sciences in the same time frame as a native UNC student. 'Best Choice' courses are listed in priority order. Complete sequence courses before transferring to UNC.

Best Choices	Cr Hrs	Grade
<b>MAT 215 Discrete Mathematics: MA 1</b>	4	
<b>MAT 255 Linear Algebra: MA1</b>	3	
<b>CSC 233 Object Oriented Programming</b>	3	

For additional information about UNC admission criteria, academic programs, and graduation requirements, visit [www.unco.edu](http://www.unco.edu) , or call (970) 351-2097, toll-free from Denver (303-637-3061), or toll-free nationwide (888) 700-4UNC to speak to an admissions counselor.