

2008-2009 60 + 60 TRANSFER GUIDE
MATHEMATICS: APPLIED MATHEMATICAL SCIENCES
UNIVERSITY OF NORTHERN COLORADO

Section I: Degree/Program Requirements

A. Institutional graduation requirements for this degree program.

The graduation requirement for a transfer student pursuing Mathematics: Applied Mathematical Sciences will be no different than the graduation requirements for a native student, including the minimum number of semester hours required for graduation requirements. Specifically, the student must complete the following requirements:

- Complete at least 120 credit hours and
- Successfully complete the required 49 credit hours in the major and
- Earn at least a 2.00 GPA in courses completed at UNC.

B. Required courses in Major, including pre-requisites and required Support courses in the chart below.

COMMUNITY COLLEGE REQUIRED COURSES: Required courses to be taken as part of AA/AS degree to guarantee the completion of a baccalaureate degree in 60 additional credits after transfer. They are as follow: NONE						
MATHEMATICS: APPLIED MATHEMATICAL SCIENCES EMPHASIS						
UNC Course Number	UNC Course Name	UNC CH	CC Course Number	CC Course Name	CC CH	
Required Major Courses		26				
CG 120	Computer Programming	3	Csc 160	Computer Science I	3	
CS 102	Structured Programming	3	Csc 161	Computer Science II	3	
MATH 221	Elementary Linear Algebra	3	Mat 255	Linear Algebra	3	
MATH 228	Discrete Mathematics	3	Mat 215	Discrete Mathematics	3	
MATH 233	Calculus III	4	Mat 203	Calculus III	5	
MATH 350	Elementary Probability Theory	4				
MATH 335	Differential Equations I	3				
MATH 495	Topics in Mathematics	3				
Required Concentration Credits		15				
<i>Select one of the following concentrations</i>						
Applied Computer Science Concentration						
Choose 2 Courses from Elective Concentration Courses		6				
CS 200	Object-Oriented Analysis, Design, and Programming	3	Csc 233	Object Orientated Programming	3	
CS 301	Algorithms and Data Structures	3				
CS course or MATH 375	Any CS course at 300 level or higher or Elementary Numerical Analysis	3				
Applied Mathematics Concentration						
Choose one course (3 credits) from Elective Concentration Courses		3				
CS 200	Object Oriented Analysis, Design and Programming		Csc 233	Object Orientated Programming	3	
MATH 437	Mathematical Modeling	3				

MATH 351 or STAT 406	Elementary Statistics Theory or Multiple Linear Regression	3			
MATH 336 or 375	Differential Equations II or Elementary Numerical Analysis	3			
Applied Statistics Concentration					
Choose 2 Courses from Elective Concentration Courses		6			
MATH 351	Elementary Statistics Theory	3			3
STAT 406	Multiple Linear Regression	3			
STAT 409	Sampling Techniques	3			
Elective Concentration Credits <i>Select from the following courses to total 15 hours within a concentration</i>		3-6			
MATH 321	Intro Abstract Algebra I	3			
MATH 322	Intro to Abstract Algebra II	3			
MATH 336	Differential Equations II	3			
MATH 341	Intro to Modern Geometry I	3			
MATH 342	Intro Modern Geometry II	3			
MATH 375	Elementary Numerical Analysis	3			
MATH 391	Intro Number Theory	3			
MATH 431	Basic Analysis I	4			
MATH 432	Basic Analysis II	4			
MATH 460		3			
CS course	Any CS course at 300 level or higher	3			
STAT course	Any STAT course at 300 level or higher	3			
Required Support Courses		8			
MATH 131	Calculus I	4	Mat 201	Calculus I	5
MATH 132	Calculus II	4	Mat 202	Calculus II	5
TOTAL MAJOR REQUIREMENTS		49			
University Electives		11			
GRADUATION REQUIREMENTS beyond AA/AS degree		60			
ASSOCIATE OF ARTS/SCIENCE DEGREE		60			
TOTAL GRADUATION REQUIREMENTS		120			

Section II: Transfer of Credit

- A. Grade Eligibility.
Only academic courses with a letter grade of C or better are transferable. The four-year institution will accept and count toward meeting graduation requirements all state guaranteed general education courses that have a grade of C or better.
- B. UNC accepts some scores of 3 and accepts scores of 4 and above on Advanced Placement tests and scores of 4 and above earned on International Baccalaureate tests.
<http://www.unco.edu/admissions/advanced-placement.asp>
<http://www.unco.edu/admissions/international-baccalaureate.asp>
- C. UNC will accept all approved credits earned with ten years of transfer. Courses earned more than ten years earlier may be evaluated on an individual basis.
- D. UNC may apply state guaranteed general education (gtP) courses toward the major or other graduation requirements if that facilitates the student's graduation more effectively.

Section III: Appeal Process

A. Institutional Appeal Process

Students who follow this agreement shall have the right to appeal a transfer decision that appears to be inconsistent with the terms and courses listed in this agreement. Appeals pertaining to this 2008-2009 Transfer Guide should be filed with the institution. A student may file an appeal that pertains to state guaranteed general education courses directly to Admissions: Leta.Naber@unco.edu or Barbara.Nelson@unco.edu

B. State Appeal

For information on the student appeal process, refer to Student Appeal Policy at <http://higherred.colorado.gov/Publications/Policies/Current/i-partt.pdf>