



COLORADO

Department of
Higher Education

STATEWIDE TRANSFER ARTICULATION AGREEMENT

for a Bachelor's Degree in

PHYSICS

Between

COLORADO PUBLIC COMMUNITY/JUNIOR COLLEGES

Aims Community College
Arapahoe Community College
Colorado Mountain College
Colorado Northwestern Community College
Community College of Aurora
Community College of Denver
Front Range Community College
Lamar Community College
Morgan Community College
Northeastern Junior College
Otero Junior College
Pikes Peak Community College
Pueblo Community College
Red Rocks Community College
Trinidad State Junior College

and

COLORADO PUBLIC FOUR-YEAR INSTITUTIONS OF HIGHER EDUCATION

Colorado Mesa University [*B.S. Physics*]
Colorado State University-Ft Collins [*B.S. Physics*]
Colorado State University-Pueblo [*B.S. Physics*]
Fort Lewis College [*B.S. Physics – Physics option*]
Metropolitan State University of Denver [*B.A./B.S. Physics*]
University of Colorado Boulder [*B.A. Physics*]
University of Colorado Colorado Springs [*B.S. Physics*]
University of Colorado Denver [*B.S. Physics*]
University of Northern Colorado [*B.S. Physics; Astronomy, Engineering,
Mathematics emphases*]



INTRODUCTION

The purpose of a statewide transfer articulation agreement is to identify the courses a student at a Colorado public community college must complete as part of an AA/AS degree to be guaranteed to be able to complete the designated baccalaureate degree program at any public four-year college and university (hereafter referred to as receiving institutions) that offers that program within the minimum number of credits designated by the Colorado Commission on Higher Education.

The guarantees and limitations below describe the minimum requirements to which all participating institutions have agreed.

A complaint related to denial of transfer credits will follow the Colorado Commission on Higher Education student complaint process. A complaint may be filed at <http://highered.colorado.gov/Academics/Complaints/> .

PART ONE: GUARANTEES

Students who complete an AA/AS degree **and** the prescribed curriculum in this statewide transfer articulation agreement **and** are admitted (with no academic deficiencies that require additional coursework) to a receiving institution participating in this agreement are guaranteed the following:

-  Junior standing with no more than 60 remaining credits to meet the graduation requirements for a baccalaureate degree in the degree program covered by this articulation agreement.
-  Completion of the receiving institution's lower division general education requirements as defined by the gtPathways curriculum.
-  The same graduation requirements as students who begin and complete this degree program at the receiving institution.

PART TWO: LIMITATIONS

- ❖ Completion of the curriculum prescribed within this statewide transfer articulation agreement does not guarantee admission to a participating receiving institution. Students must meet all admission and application requirements at the receiving institution including the submission of all required documentation by stated deadlines. Please note: students transferring to a University of Colorado institution (Boulder, Colorado Springs, Denver) must satisfy the CU System's MAPS (Minimum Academic Preparation Standards) requirement.
- ❖ Only courses with grades of C- or higher are guaranteed to transfer.
- ❖ Admission to a receiving institution does not guarantee enrollment in a specific degree program. Some programs at receiving institutions have controlled entry due either to space limitations or academic requirements.
- ❖ The credit and course transfer guarantees described in this agreement apply to the specific degree program covered by this agreement. Receiving institutions will evaluate application of the courses designated in this agreement to other degree programs on a course-by-course basis.
- ❖ Students who wish to use credits awarded by exam, such as AP (Advanced Placement), or IB (International Baccalaureate), to fulfill specific course requirements are responsible for consulting with the institution to which they are transferring to determine whether the credits they have been awarded by exam meet the standards of the receiving institution for specific course equivalents.
- ❖ The receiving institution will accept all applicable credits earned within ten years of transfer to the receiving institution. Credits earned more than ten years earlier will be evaluated on a course-by-course basis.
- ❖ All the courses a student needs to take in the discipline covered by this statewide transfer articulation agreement are listed in the prescribed curriculum. **Any additional courses taken in the discipline covered by this agreement might not count toward the requirements of the major at the receiving institution.** Students can avoid this problem by either taking no more courses in the discipline than the ones identified in the prescribed curriculum or by consulting first with the receiving institution to assure that any additional courses they take in the discipline will count toward the major.

Because of the limitations above, students must consult with the Office of Admissions at the institution to which they are transferring.

PART THREE: PRESCRIBED CURRICULUM

PLEASE NOTE: The degree track in PHYSICS with Secondary Teaching Licensure has different requirements and is not included in this agreement. Please refer to this agreement's cover page for the name of the Bachelor's degree at the four-year institution to which this agreement applies.

Courses that Fulfill General Education Requirements				36
	Credit Hrs	CCCS Course No.	Course Title or Category	
Arts & Humanities	9		Three gtPathways Arts & Humanities courses (GT-AH1, GT-AH2, GT-AH3, GT-AH4)	
Communication	6	ENG 121 and ENG 122 or ENG 122 and a gtPathways-approved CO3 course	English Composition I (GT-CO1) and English Composition II (GT-CO2) OR English Composition II (GT-CO2) and a gtPathways-approved CO3 course (GT-CO3)	
History	3		One gtPathways History course (GT-HI1)	
Mathematics	5	MAT 201	Calculus I (GT-MA1)	
Natural & Physical Sciences	5 5	PHY 211 PHY 212	Physics: Calculus-based I (GT-SC1) Physics: Calculus-based II (GT-SC1)	
Social & Behavioral Sciences	3		One gtPathways Social & Behavioral Science course (GT-SS1, GT-SS2, GT-SS3)	
Additional Required Courses				24
Please note: if these credits are <i>not</i> required for the <i>major</i> at a receiving 4-year institution, they will be applied to the Bachelor's degree as <i>elective credit</i> towards <i>graduation</i> . Please check with the receiving institution to determine in which way these courses will be applied.				
	Credit Hours	CCCS Course No.	Course Title	
	3	PHY 213	Physics III: Calculus-based	
	5	MAT 202	Calculus II (GT-MA1)	
	4 or 5	MAT 203 OR MAT 204 ¹	Calculus III (GT-MA1) OR Calculus III with Engineering Applications (GT-MA1)	
	3 or 4 or 4	MAT 265 OR MAT 261 ¹ OR MAT 266 ¹	Differential Equations (GT-MA1) OR Differential Equations with Engineering Applications (GT-MA1) OR Differential Equations with Linear Algebra	
	5	CHE 111	General College Chemistry I (GT-SC1)	
Please see footnotes below.	4 or 5	CSC 160 OR CHE 112 ³	Computer Science I (Language) OR General College Chemistry II (GT-SC1) ^{2, 3, 4, 5}	
Electives				0
Total				60

¹ PLEASE BE ADVISED: If you choose to take one of these courses, it will put you over 60 credits. The courses will transfer but the extra credits may not. That is, the receiving institution may still require the completion of 60 credits for the major.

² Students planning to transfer to **University of Colorado Boulder** must take CHE 112 (*not* CSC 160) to fulfill this requirement.

³ Students planning to transfer to **University of Northern Colorado** must take CSC 160 (*not* CHE 112) to fulfill this requirement.

⁴ Students planning to transfer to **Fort Lewis College** or **University of Colorado Colorado Springs** must take *both* CSC 160 and CHE 112.

⁵ Students planning to transfer to a receiving institution not listed here may choose either one of these courses.

Addendum to Agreement

Students who do not complete an AA/AS degree can use the prescribed curriculum within a statewide transfer articulation agreement as a common advising guide for transfer to all public institutions that offer the designated baccalaureate degree program.

Please note the following:

1. Students are guaranteed application of completed gtPathways courses within the curriculum prescribed in this agreement up to the established maximum in each content area.
2. Except in special cases (e.g., the partial completion of a required sequence of courses or variation in the number of credit hours institutions award for course equivalents), students can expect that courses specified within the prescribed curriculum in this agreement that are successfully completed with a C- or higher will fulfill the relevant course requirements in the designated major.
3. Receiving institutions will evaluate all courses other than those specified in this agreement on a course-by-course basis.

Students transferring without a completed AA/AS degree must consult with the Office of Admissions at the institution to which they are transferring to review the issues identified above and to make sure they meet all admission and application requirements at the receiving institution, including the submission of all required documentation by stated deadlines.

This agreement will remain in force until such time as it is formally modified or terminated.

Colorado Community College System

Printed Name: _____
Signature: _____
Date: _____

President Chief Academic Officer

Aims Community College

Printed Name: _____
Signature: _____
Date: _____

President Chief Academic Officer

Colorado Mountain College

Printed Name: _____
Signature: _____
Date: _____

President Chief Academic Officer

Colorado Mesa University

Printed Name: _____
Signature: _____
Date: _____

President Chief Academic Officer

Colorado State University-Ft Collins

Printed Name: _____

Signature: _____
President

Chief Academic Officer

Date: _____

Colorado State University-Pueblo

Printed Name: _____

Signature: _____
President

Chief Academic Officer

Date: _____

Fort Lewis College

Printed Name: _____

Signature: _____
President

Chief Academic Officer

Date: _____

Metropolitan State University of Denver

Printed Name: _____

Signature: _____
President

Chief Academic Officer

Date: _____

University of Colorado Boulder

Printed Name: _____

Signature: _____
Chancellor

Chief Academic Officer

Date: _____

University of Colorado Colorado Springs

Printed Name: _____

Signature: _____
Chancellor

Chief Academic Officer

Date: _____

University of Colorado Denver

Printed Name: _____

Signature: _____
Chancellor

Chief Academic Officer

Date: _____

University of Northern Colorado

Printed Name: _____

Signature: _____
President

Chief Academic Officer

Date: _____
