

**Transfer Guide for Community College Students Transferring to:  
Colorado Mesa University - Bachelor of Science in Physics**  
Department of Physical and Environmental Sciences, [www.coloradomesa.edu/pes/index.html](http://www.coloradomesa.edu/pes/index.html)  
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**I. General Education Courses**

**Note:** At CMU General Education courses are designated as “Essential Learning” courses. Students should refer to the CMU Catalog section: “Requirements for Undergraduate Degrees and Certificates” for information.

\*Students who do not place into college level English Composition or Math will have to take pre-requisite Developmental Education courses.

	<b>Credit Hours</b>	<b>Community College Course Number and Title or gtPathways Category</b>	<b>4-year Institution's Course (credits)</b>
Written Communication	6	ENG 121: English Composition I (3 cr) (GT-CO1) and ENG 122: English Composition II (3 cr) (GT- CO2) <b>OR</b> ENG 122: English Composition II (3 cr) (GT-CO2) and a GT-CO3 course (3 cr)	
Oral Communication	3	COM 115: Public Speaking (3 cr) <b>OR</b> COM 125: Interpersonal Communication (3 cr) <b>OR</b> COM 220: Intercultural Communication (3 cr) (GT-SS3).	
Mathematics	5	MAT 201 Calculus I (5 cr) (GT-MA1)	
Arts & Humanities	6	Two gtPathways Arts & Humanities courses from two different areas ( <a href="#">GT-AH1</a> , <a href="#">GT-AH2</a> , <a href="#">GT-AH3</a> , or <a href="#">GT-AH4</a> )	
Social & Behavioral Sciences	6	Two gtPathways Social & Behavioral Science courses from two different areas ( <a href="#">GT-SS1</a> , <a href="#">GT-SS2</a> , or <a href="#">GT-SS3</a> )	
History	3	One gtPathways History course ( <a href="#">GT-HI1</a> )	
Natural & Physical Sciences	10	PHY 211 Physics I: Calculus-based (5 cr) (GT-SC1) PHY 212 Physics II: Calculus-based (5 cr) (GT-SC1)	PHYS 131, 131L PHYS 132, 132L
	<b>39</b>	<b>TOTAL GEN ED CREDITS</b> * Credits beyond 39 will apply to Elective Credits for an AS degree. * All of these credits will transfer and apply to the bachelor's degree but won't necessarily apply to general education credits at the 4-year institution.	

**II. Required Courses**

<b>Credit Hours</b>	<b>Community College Course Number and Title</b>
3	PHY 213 Physics III: Calculus-based (GT-SC1)
5	MAT 202 Calculus II (GT-MA1)

4 or 5	MAT 203 Calculus III (GT-MA1) <b>OR</b> MAT 204 Calculus III with Engineering Applications (GT-MA1)
3 or 4 or 4	MAT 265 Differential Equations (3 cr) (GT-MA1) <b>OR</b> MAT 261 Differential Equations with Engineering Applications (4 cr) (GT-MA1) <b>OR</b> MAT 266 Differential Equations with Linear Algebra (4 cr)
4 or 5	CSC 160 Computer Science Language I (4 cr) (GT-SC1) <b>OR</b> CHE 112 General College Chemistry II (5 cr) (GT-SC1)
<b>19</b>	<b>TOTAL REQUIRED COURSES CREDITS</b>

### III. Elective and Recommended Courses

“Recommended Courses” means courses that students are strongly encouraged, but not required, to take for preparation in this major and are listed below in priority order.

Credit Hours	Community College Course Number and Title
2	Student chooses, with help from an advisor, from the approved electives list for the community college’s AS degree.
<b>60</b>	<b>TOTAL ASSOCIATE DEGREE CREDITS</b>

#### ASSOCIATE OF ARTS OR SCIENCE DEGREE REQUIREMENTS (60 Credits):

Students should note that all required courses must be satisfactorily completed as part of the AA or AS degree at the community college and will also transfer and apply to the bachelor’s degree requirements at the receiving 4-year institution. However, if you’re going to transfer before completing the AA or AS degree, you may not need some of these courses. In that case, check with the receiving institution and an advisor for your options.

#### GUARANTEES & LIMITATIONS

- 1. Completion of Associate’s Degree:** This transfer guide identifies the courses a student needs to complete (with a C- or higher) to earn an AA or AS degree at a Colorado community/junior college in order to be able to finish the designated baccalaureate degree in no more than 60 credits. Per [Colorado Commission on Higher Education \(CCHE\) Policy I, L](#), students who complete an AA or AS degree at a Colorado community/junior college and who are admitted to a Colorado public baccalaureate institution are guaranteed the following: the full transfer and application of a minimum of 60 credits toward the baccalaureate degree requirements at the Colorado institution of higher education; completion of the lower-division component of the receiving institution’s general education core curriculum; and junior standing. Course credit may be applied to major, elective or other requirements at the receiving institution’s discretion. If more than 60 college-level credits are taken or the student gets lower than a C- in one or more courses at the community/junior college, then some loss of transfer credit may occur, and students may not be able to complete this baccalaureate degree in 120 credits.
- 2. Transfer Before Completing the Associate’s Degree:** If the student intends to transfer prior to completing an AA or AS 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 baccalaureate institution to which they are transferring. While not completing the required associate’s degree eliminates the guarantees described here, gtPathways general education courses identified in Section I are guaranteed to transfer and apply to the receiving institution’s gtPathways lower division general education requirements. Students are strongly encouraged to finish course sequences (such as English Comp I & II or Calculus I, II & III) before transferring.

For additional information on CCHE transfer policies and gtPathways guaranteed transfer of general education credit, visit <http://highered.colorado.gov/Academics/Transfers/Students.html>. To file a transfer-related complaint with the Colorado Department of Higher Education, visit <http://highered.colorado.gov/Academics/Complaints/default.html>