Transfer Articulation Guide for
Associate of Arts to Bachelor of Science in Biochemistry & Molecular Biology with ACS Certification

Pursuant to the Articulation Partnership between Missouri Western State University (MWSU) and the Highland Community College (HCC), this document serves as the Transfer Articulation Guide between MWSU and HCC for the Bachelor's degree program of ***BS-Biochemistry & Molecular Biology with ACS Certification.*** This Transfer Articulation Guide is entered into pursuant to the Articulation Partnership between MWSU and HCC and is effective beginning Fall 2025.

This transfer guide is provided as a service and is updated as needed. Degree requirements at the institutions are subject to change. To ensure you have the most accurate up to date information about the program, it is important you meet with an advisor at the transfer institution.

Program Entrance Requirements

- Overall GPA of 2.0 or higher
- Bachelor's degree program listed above officially declared on the MWSU student record (indicated at time of admission or upon meeting with an advisor.)

Degree Requirements

- Earn a minimum of 120 hours (100 level and higher, maximum of 6 CED credit hours applicable).
- Earn a minimum of 30 credit hours in upper division courses. Lower division transfer courses accepted as meeting upper division departmental course requirements cannot be used to fulfill this requirement.
- Earn 30 of the last 45 credit hours at MWSU in institutional course work (exclusive of credit by exam).
- Participate in required departmental and campus wide assessments.
- Earn an overall GPA of at least 2.0 and a major GPA of at least 2.0.
- Fulfill the Missouri Constitution requirement.
- Successfully pass the Missouri Higher Education Civics Achievement exam.

For more information, please contact:

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Highland Community College		Missouri Western State University	
GENERAL EDUCATION CORE COMPLETE WITH AA COMPLETION			
PROGRAM-TO-PROGRAM TRANSFERABLE COURSES *Courses not taken at HCC must be taken at MWSU.* *Note: Some of these courses may be taken as part of General Education.*			
Course	**Cr Hrs**	**Course**	**Cr Hrs**
MAT 106 Calculus I	5	MAT 167 Calculus w/ Analytic Geometry I	5
MAT 110 Calculus II	5	MAT 177 Calculus w/Analytic Geom II	3
BS 201 General Zoology with Lab OR BS 202 General Botany with lab	5	BIO 105 Principles of Organismal Biology	4
CHM 111 General Chemistry I with Lab	5	CHE 111 General Chemistry I	5
CHM 112 General Chemistry II with lab	5	CHE 120 General Chemistry II with Qualitative Analysis	5
CHM 211 Organic Chemistry I with Lab*	5	CHE 310 Organic Chemistry I (3) AND CHE 311 Organic Chemistry Lab I (2)	5
CHE 212 Organic Chemistry II with Lab*	5	CHE 312 Organic Chemistry II (3) AND CHE 313 Organic Chemistry Lab II (2)	5
PS 203 General Physics I with Lab	5	PHY 110 College Physics I	4
PS 204 General Physics II with Lab	5	PHY 111 College Physics II	4

BS PROGRAM REMAINING COURSES TO BE COMPLETED AT MWSU	
Course	**Cr Hrs**
BIO 106 Principles of Cell Biology	4
BIO 205 Genetics	4
BIO 225 Ecology	4
BIO 310 Molecular Cell Biology OR BIO 430 Molecular Basis of Disease	4
CHE 321 Quantitative Analysis	4
CHE 340 Foundations of Physical Chemistry	4
CHE 370 Biochemistry I	4
CHE 470 Biochemistry II	3
CHE 326 Instrumental Analysis	4
CHE 441 Advanced Inorganic Chemistry	3
CHE 480 Advanced Physical Chemistry	4
Unrestricted Electives (remaining coursework required to reach a total of 120 credit hours)	4

***Equivalent course but does not count toward Missouri Western State University upper-division requirement (30 credit hours of 300+ numbered courses).**