




## MEMORANDUM OF UNDERSTANDING BETWEEN MARSHALL UNIVERSITY AND ASHLAND COMMUNITY AND TECHNICAL COLLEGE LEADING TO THE DOCTOR OF PHARMACY DEGREE (Pharm.D.)


Marshall University and Ashland Community and Technical College (Ashland CTC), in order to promote and facilitate the educational opportunities afforded students interested in pursuing a pharmacy education, establish this memorandum of understanding (MOU). This MOU stipulates a series of courses that, when satisfactorily completed by Ashland CTC, students, will meet the Pharm.D. degree's prerequisite requirements and facilitate student enrollment within the Marshall University School of Pharmacy.

Marshall University and Ashland CTC agree to monitor and support the provisions of this agreement to ensure the consistency, quality, and transferability of students interested in pursuing a Pharm.D. degree. Marshall University and Ashland CTC agree to coordinate changes in the course content and/or requirements for any courses listed in the MOU for the purpose of ensuring continued comparability between the courses offered on each campus. Marshall University and Ashland CTC agree to renegotiate this agreement when changes to the Pharm.D. curriculum occur or when changes in the graduation requirements for either institution become necessary. This process will be the responsibility of the appropriate deans at both institutions.

Students pursuing the Pharm.D. degree through the memorandum of understanding will be bound by the curriculum description (Appendix A) in effect at the time they are officially accepted into the Pharm.D. program. The attached curriculum sheets dated **December 1, 2024** will be in effect until officially changed and agreed upon by both institutions.

  
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Dr. Eric Blough, Dean  
School of Pharmacy  
Marshall University

  
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Dr. Larry Ferguson  
President and CEO  
Ashland CTC

  
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Dr. Avinandan "Avi" Mukherjee  
Provost & Senior Vice President  
for Academic Affairs

**APPENDIX A: PREREQUISITE CURRICULUM - ASHLAND COMMUNITY  
AND TECHNICAL COLLEGE TO MARSHALL UNIVERSITY EQUIVALENT  
COURSE WORK**

Requirement	Marshall University	Ashland Community and Technical College
English Composition / Writing	ENG 101 (3)	ENG 101 (3)
English Composition / Writing	ENG 201 (3)	ENG 102 (3)
Calculus	MTH 229 (5)	MAT 123 or MAT 175 Calculus 1 (5)
Statistics	MTH 225 (3)	STA 220 Statistics 3
General Biology I	BSC 120 (4)	BIO 150 Principles of Biology I (3) BIO 151 Principles of Biology 1 Lab 2
General Biology II	BSC 121 (4)	BIO 152 Principles of Biology 11 (3) BIO 153 Principles of Biology 11 Lab (2)
Human Anatom	BSC 227 (4)	BIO 137 Human A&P 1
Human Ph siolo	BSC 228 (4)	BIO 139 Human A&P 11 (8 total)
Microbiology	BSC 250 (4)	BIO 225 Principles of Microbiology with Lab 4 total
Gen Chemistry I + Laboratory	CHM 211 (3) CHM 217 (2)	CHE 170 General College Chem. 1 (3) CHE 175 Gen. College Chem. Lab1 (1)
Gen Chemisfry II + Laboratory	CHM 212 (3) CHM 218 (3)	180 General College Chem. 11 (3) CHE 185 Gen. College Chem. Lab 11 (1)
Organic Chemistry I	CHM 355 (3)	CHE 270 Organic Chemistry 1 (3) CHE 275 Or anicChemis 1 Lab 1)
Organic Chemistry II + Laboratory	CHEM 356 (3) CHM 361 3	CHE 280 Organic Chemistry II (3) CHE 285 Or anic Chemi 11 Lab (1)
Physics I + Laboratory	PHY 201 (3) PHY 202 1	PHY 171 College Physics (4)
Social / Behavioral Science	Social studies elective (3)	SOC 101 (3) or PSY 110 (3)

## APPENDIX B: PROCESS

Students attending Ashland CTC who select to pursue the Pharm.D. degree program at Marshall University will take any/all of the courses listed in Appendix A through Ashland CTC. Upon transfer to Marshall University School of Pharmacy, the listed courses will be accepted by Marshall University as meeting the required pre-pharmacy course requirement indicated for that course.

As part of the memorandum of understanding, Marshall University School of Pharmacy agrees to give preferential consideration during each admission cycle to Ashland CTC students who successfully complete the Associate of Science degree at ACTC to transfer to the Pharm. D. program and meet the minimum transfer requirements. The minimum transfer requirements are:

1. Selection for receipt of preferential consideration by the appropriate Ashland CTC Dean or group. Ashland CTC will submit a list of students deserving preferential consideration to the Marshall University School of Pharmacy prior to December 15th of each year;
2. Minimum grade point average of at Ashland CTC for all courses listed in the memorandum of understanding;
3. Application to the Marshall University School of Pharmacy through the online Pharmacy College Application Service (PharmCAS, at <http://www.pharmacas.org>).
4. Submission of the Marshall University School of Pharmacy supplemental application and all required applications fees;
5. Successful completion of an on-campus admissions interview.

