

# ARTICULATION AGREEMENT BETWEEN MARSHALL UNIVERSITY AND CONCORD UNIVERSITY FOR ACADEMIC PROGRAMS LEADING TO A DOCTOR OF PHARMACY DEGREE

Marshall University and Concord University, in order to facilitate the efficient transfer of students between the two institutions, hereby establish an articulation agreement to promote and facilitate the educational opportunities afforded students interested in pursuing a pharmacy education. Such courses may be used to fulfill portions of both a general education curriculum and the requirements of a baccalaureate program of study and be eligible for application to the Doctor of Pharmacy degree.

Students who are in good standing and meet the admissions requirements are eligible to matriculate at Marshall University and receive full credit for college-level coursework completed at Concord University and other regionally accredited colleges or universities. Should a student transfer to Marshall University before the completion of a bachelor's degree at Concord University, Marshall University will monitor the student's progress and send an official transcript to Concord University once the student has completed two semesters of the Pharm.D. curriculum (Appendix D). As appropriate, Concord University may then use the combined coursework of the two schools to issue the student a Bachelor's degree.

The courses listed in the following articulation curriculum are the requirements for students who intend to earn a Concord University Bachelor of Science degree with a major in chemistry, using the 3+1 pre-pharmacy concentration. Marshall University and Concord University agree to monitor and support the provisions of this agreement to ensure program consistency and quality, and transferability of the benefit of the students of both institutions.

This articulation agreement supplements all currently existing articulation agreements which will continue to serve as specialized links between the two institutions. Marshall University and Concord University agree to renegotiate this agreement as necessary due to changes in curriculum or graduation requirements implemented by either institution. This process will be the responsibility of the chief academic officer at both institutions. This agreement may be terminated upon thirty (30) days written notice to the other party provided that the students currently pursuing a degree shall be permitted to complete the program. Students pursuing a Doctorate of Pharmacy degree through this articulation agreement will be bound by the curriculum requirements in effect at the time they are officially accepted into the articulated program. The attached curriculum requirements dated January 1, 2023, will be in effect until officially changed and agreed upon by both institutions.

The terms of this agreement are hereby approved on January 1, 2023, by the respective administrations of the two schools:



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Eric Blough, Ph.D.  
Dean (Interim)  
School of Pharmacy  
Marshall University



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Edward W. Huffstetler, Ph.D.  
Provost and Vice President for Academic Affairs  
Concord University

## **APPENDIX A: MATRICULATION PROCESS**

Students attending Concord University who elect to pursue the Pharm.D. degree program at Marshall University will have completed all courses listed in Appendix B and Appendix C prior to matriculation within the pharmacy program through Concord University or have received transfer credit for courses completed at peer institutions.<sup>1,2</sup> Upon transfer to Marshall University School of Pharmacy (MUSOP), the listed courses will be accepted by Marshall University as meeting the required pre-pharmacy course requirement indicated for that course.

MUSOP will grant interviews to all Concord University students who elect to transfer to the Pharm.D. program and meet the minimum transfer requirements. The minimum transfer requirements are:

1. Completion of all course work (years 1-3) in Appendix B and Appendix C.
2. Minimum grade point average of 3.0 at Concord University averaged over all courses listed in the articulation agreement.
3. Application to the Marshall University School of Pharmacy through the online Pharmacy College Application Service (PharmCAS, at <http://www.pharmcas.org>).
4. Submission of the Marshall University School of Pharmacy supplemental application and Marshall University Graduate College application and required applications fees.
5. Successful completion of an on-campus admissions interview.

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<sup>1</sup>Concord University students seeking admission to the MU pharmacy program are advised to apply after completion of the sophomore year requirements for a Bachelor of Science degree with a major in chemistry, using the 3+1 pre-pharmacy concentration.

<sup>2</sup>A minimum of 36 credit hours, not including the pharmacy practicum (CHEM 460), must be completed at Concord University.

**APPENDIX B: PREREQUISITE CURRICULUM—CONCORD UNIVERSITY TO MARSHALL UNIVERSITY  
EQUIVALENT COURSE WORK**

<b>Requirement</b>	<b>Marshall University</b>	<b>Concord University</b>
English Composition	ENG 101 (3) Beginning Composition ENG 201 (3) Advanced Composition	ENGL 101 (3) Composition and Rhetoric I ENGL 102 (3) Composition and Rhetoric II
Calculus	MTH 229 (5) Calculus/Analytic Geom I	MATH 253 (4) Calculus with Analytic Geometry I
Statistics	STA 225 (3) Introductory Statistics	MATH 105 (3) Elementary Statistics
General Biology I and Lab	BSC 120 (3) Principles of Biology I BSC 120L (1) Principles of Biology I Lab	BIOL 121 (4) Foundations of Biology I
General Biology II and Lab	BSC 121 (3) Principles of Biology II BSC 121L (1) Prin of Biology II Lab	BIOL 122 (4) Foundations of Biology II
Anatomy and Physiology and Lab	BSC 227 (3) Human Anatomy BSC 227L (1) Human Anatomy Lab BSC 228 (3) Human Physiology BSC 228L Human Physiology Lab	BIOL 335 (4) Human Anatomy and Physiology I BIOL 336 (4) Human Anatomy and Physiology II
Microbiology and Lab	BSC 250 (3) Microbiol & Human Disease BSC 250L (1) Microbio and Human Disease Lab	BIOL 329 (4) Microbiology
General Chemistry I and Lab	CHM 211 (3) Principles of Chemistry I CHM 217 (2) Principles of Chem Lab I	CHEM 101 (3) General Chemistry I CHEM 111 (1) General Chemistry Laboratory I
General Chemistry II and Lab	CHM 212 (3) Principles of Chemistry II CHM 218 (3) Principles of Chem Lab II	CHEM 102 (3) General Chemistry II CHEM 112 (1) General Chemistry Laboratory II
Organic Chemistry I, II, and Lab	CHM 355 (3) Organic Chemistry I CHM 356 (3) Organic Chemistry II CHM 361 (3) Intro Organic Chm Lab	CHEM 331 (4) Organic Chemistry I CHEM 332 (4) Organic Chemistry II
Physics I and Lab	PHY 201 (3) College Physics I PHY 202 (1) General Physics I Laboratory	PHYS 101 (4) Introductory Physics or PHYS 201 (4) University Physics with Calculus, Part I

**APPENDIX C: ADDITIONAL CURRICULUM REQUIREMENTS FOR CONCORD UNIVERSITY STUDENTS MATRICULATING TO MARSHALL UNIVERSITY'S SCHOOL OF PHARMACY THAT WILL RESULT IN RECEIPT OF A BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN CHEMISTRY – USING THE 3+1 PRE-PHARMACY CONCENTRATION**

**CHEMISTRY**

CHEM 210 CHEM LAB SAFETY  
CHEM 341 BIOCHEMISTRY  
CHEM 347 BIOCHEMISTRY LAB  
CHEM 351 ANALYTICAL CHEMISTRY  
CHEM 357 ANALYTICAL CHEMISTRY LAB  
CHEM 460 PHARMACY PRACTICUM (2 SEMESTERS)  
PHSC 219 LAB RESEARCH METHODS AND ETHICS  
CHEM ELECTIVE

**GENERAL EDUCATION**

(39-40 Hours)

**A. Written and Oral Communications (9 Hours)**

***Required Courses:***

ENGL 101 Composition and Rhetoric I (3)

ENGL 102 Composition and Rhetoric II (3)

***Select one course from the following list:***

BGEN 205 Fundamentals of Business Communication (3)

COMM 101 Fundamentals of Speech (3)

**B. Literature and Humanities (6 Hours)**

***Literature (3 hours)***

***Select one course for a total of three credit hours from the following list:***

ENGL 203 World Literature I (3)

ENGL 204 World Literature II (3)

***History and Philosophy (3 hours)***

***Select one course from the following list:***

HIST 101 History of Civilization (3)

HIST 102 History of Civilization (3)

HIST 203 History of the United States (3)

HIST 204 History of the United States (3)

PHIL 101 Introduction to Philosophy (3)

PHIL 308 Logic (3)

PHIL 316 Ethics (3)

PHIL 361 Biomedical Ethics (3)

**C. Fine Arts (3 Hours)**

**Select one course for a total of three credit hours from the following list:**

ART 101 Introduction to Visual Arts (3)

ART 103 Drawing I (3)

ART 105 Design I (3)

ART 106 Basic Computer Graphics (3)

ART 204 Painting I (3)

ART 205 Ceramics I (3)

ART 216 Photography I (3)

ART 303 Jewelry I (3)

ART 304 Water-Color Painting (3)

ART 308 Printmaking I (3)

MUS 101 Introduction to Music (3)

MUS 451 Collegiate Singers (1,1,1) Repeat up to three credit hours for this category.

MUS 453A Marching Band (1,1,1) Repeat up to three credit hours for this category.

THEA 102 Introduction to the Theatre (3)

**D. Social and Behavioral Sciences (9 Hours)**

**Select one course from three different categories outlined below:**

**Category 1-Business and Professional Studies**

BGEN 105 Introduction to Business (3)

ECON 203 Principles of Microeconomics (3)

ECON 204 Principles of Macroeconomics (3)

FIN 200 Personal Financial Planning (3)

HSP 100 Introduction into Recreation and Tourism Management (3)

SOWK 161 Introduction to Social Work (3)

**Category 2-Geography**

GEOG 101 Humans and the Environment (3)

GEOG 221 Cultural Anthropology (3)

**Category 3-Political Science**

POSC 101 Introduction to Political Science (3)

POSC 104 American Federal Government (3)

POSC 202 State and Local Government (3)

**Category 4-Psychology**

PSY 101 General Psychology (3)

PSY 200 Basic Learning (3)

**Category 5-Sociology**

SOC 101 Introduction to Sociology (3)

SOC 201 Social Problems (3)

SOC 301 Sociology of Families (3)

### G. Physical Wellness (2 Hours)

**Select one or more courses from the following list for a total of at least two hours:**

H ED 120 Personal Health (3)

H ED 304 Principles of Nutrition and Weight Management (2)

P ED 101M Personal Wellness (2)

P ED 117 Team Sports (3)

P ED 118 Individual Sports and Physical Activities (3)

### Modern and Classical Language Option (6 Hour Substitution)

A two-semester sequence of courses in the same modern or classical language may be substituted for up to two General Education courses. Both courses in this two-course sequence must be passed before General Education credit may be awarded. Modern or classical language courses can be used to substitute for no more than **ONE** General Education course from each of the content areas labeled A-G above. No substitution is permitted for ENGL 101, ENGL 102, the Mathematics requirement, or the 4-hour Natural Science requirement.

### Honors Course Substitution

Any student enrolled in the Honors Program may elect to substitute the 400-level capstone course for any General Education course not required for his or her program, except that there is no substitute permitted for ENGL 101, ENGL 102, the Mathematics requirement, or the 4-hour Natural Science requirement.

Students matriculating to the Marshall University School of Pharmacy will be eligible for graduation from Concord University with a Bachelor of Science degree with a major in chemistry, using the 3+1 pre-pharmacy concentration upon completion of the PI academic year of pharmacy curriculum (Appendix D) and a total of 120 credit hours. Students will file for graduation during the spring semester of their first year at Marshall University. Graduation is contingent upon receipt of official transcripts.

Courses taken during the internship year, off-campus residency in Pharmacy School, will occur at Marshall University. Students will register for CHEM 460 Pharmacy Practicum at Concord University; however, Concord does not charge tuition or fees during the internship year.

**APPENDIX D: MARSHALL UNIVERSITY SCHOOL OF PHARMACY CURRICULUM FOR P1 ACADEMIC YEAR**

P1 Academic Year<sup>3</sup>

<b>Fall</b>		<b>Spring</b>	
<b>Course</b>	<b>Credits</b>	<b>Course</b>	<b>Credits</b>
PHAR501 -Pharmacy Continuing Professional Development	0	PHAR502 -Pharmacy Continuing Professional Development	0
PHAR512 Pharmacy Skills 1	1	PHAR523 Pharmacogenomics	2
PHAR524 Drug Information and Communication	2	PHAR532 Biopharmaceutics II	3
PHAR531 Biopharmaceutics I	3	PHAR536 Intro to Pharmacy 2	3
PHAR533 Intro to Pharmacy	3	PHAR537 Pharmacokinetics	3
PHAR542 Immunology and Microbiology	4	PHAR538 Skills Lab 2	3
PHAR547 Pharmaceutical Biochemistry	4	PHAR544 Principles of Disease and Drug Action	4
		PHAR811 IPPE Community 1	1
<b>Total</b>	<b>17</b>	<b>Total</b>	<b>19</b>

<sup>3</sup> Current syllabi and a description of the four-year curriculum in its entirety may be found at <https://www.marshall.edu/pharmacy/pharmd/>.