

**ARTICULATION AGREEMENT
BETWEEN
MARSHALL UNIVERSITY SCHOOL OF PHARMACY
AND MARSHALL UNIVERSITY COLLEGE OF SCIENCE
FOR ACADEMIC PROGRAMS LEADING TO
A DOCTOR OF PHARMACY DEGREE**

The Marshall University School of Pharmacy and Marshall University College of Science, in order to facilitate the efficient transfer of students between the two schools, 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 the Marshall University School of Pharmacy and receive full credit for college-level coursework completed at the Marshall University College of Science. Should a student transfer to Marshall University School of Pharmacy prior to the completion of a Bachelor's degree at the College of Science, the School of Pharmacy will monitor the student's progress and send an official transcript to the College of Science once the student has completed two semesters of the Pharm.D. curriculum. As appropriate, the College of Science 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 pathways represent a planning guide for students who intend to earn a biological science or chemistry major as presented in one of College of Science degree programs (see Appendix B & C). The pathway plans of study are presented as illustrative for full-time students who have fulfilled course prerequisites and completed the courses as outlined. Students who do not complete the sequence of courses outlined in a plan of study may require additional time and expense to complete the degree.

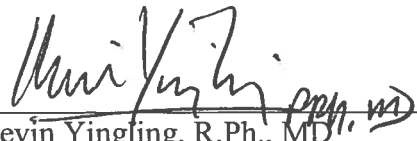
The Marshall University School of Pharmacy and Marshall University College of Science agree to monitor and support the provisions of this agreement to ensure program consistency and quality, and transferability of the benefit of the students of both institutions.

This articulation agreement supplements all currently existing articulation agreements which will continue to serve as specialized links within the institution. The Marshall University School of Pharmacy and Marshall University College of Science 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 schools. 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 May 10, 2016 will be in effect until officially changed and agreed upon by both institutions.

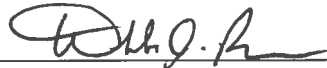
The terms of this agreement are hereby approved on May 10, 2016 by the respective administrations of the School of Pharmacy and College of Science.



Gayle Ormiston, Senior Vice President &
Provost
Marshall University



Kevin Yingling, R.Ph., MD
Dean
Marshall University School of Pharmacy



Dr. Dhruba Bora
Associate Dean
Marshall University College of
Science

APPENDIX A: MATRICULATION PROCESS

Students attending the Marshall University College of Science who elect to pursue the Pharm.D. degree program at Marshall University will have completed all courses listed in Appendix B or Appendix C through the College of Science or have received transfer credit for courses completed at peer institutions. Upon transfer to the Marshall University School of Pharmacy, the listed courses will be accepted as meeting the required pre-pharmacy course requirement indicated for that course.

As part of the articulation agreement, MUSOP agrees to give guaranteed admission during each admission cycle to two or more¹ Marshall University College of Science students who select to transfer to the Pharm. D. program and meet the minimum transfer requirements. The minimum transfer requirements are:

1. Selection for receipt of guaranteed admission² by the appropriate Marshall University College of Science Dean or group. The College of Science will submit a list of students deserving guaranteed admission to the MUSOP Office of Student Affairs prior to September 1 of each year;
2. Minimum grade point average of 3.2 at Marshall University averaged over all courses listed in the articulation agreement;
3. PCAT greater than 50 and completed within prior 12 months; PCAT scores must be submitted to Marshall University School of Pharmacy through PharmCAS;
4. Completed application by the Early Decision deadline to the Marshall University School of Pharmacy through the online Pharmacy College Application Service (PharmCAS, at www.pharmcas.org);
5. Submission of the Marshall University School of Pharmacy supplemental application and all required applications fees by the Early Decision deadline;
6. Successful completion of an on-campus admissions interview.

The MUSOP admission cycle is a three-stage process that includes initial applicant screening, on-site interview, and the admission decision. Approximately 40% of applicants will be offered an on-site interview during any admissions cycle. All students completing prerequisite course work through the Marshall University College of Science who meet or exceed the minimum requirements as identified above will receive preferential treatment during the MUSOP admission cycle. Receipt of preferential consideration absolves College of Science students who meet the requirements of this articulation agreement from the initial applicant screening and guarantees the student an onsite interview.

¹ The Marshall University College of Science will receive a minimum of 2 guaranteed seats for students matriculating to MUSOP. More seats may be available within any year depending upon use of guaranteed seats allocated to peer institutions.

² Receipt of guaranteed admission requires that the student apply for early decision to MUSOP and successful completion of an onsite interview.

**APPENDIX B: PATHWAY PROGRAM
FOR COLLEGE OF SCIENCE - BIOLOGICAL SCIENCE MAJORS**

YEAR ONE

First Semester		Second Semester	
BSC120 Principles of Biology	4 hours	BSC121 Principles of Biology	4 hours
CHM211 Principles of Chemistry I	3 hours	CHM212 Principles Chemistry II	3 hours
CHM217 Principles of Chem Lab I	2 hours	CHM218 Principles of Chem Lab II	2 hours
Composition: ENG101 English Composition I	3 hours	FYS 100 Freshmen First-Year Seminar	3 hours
CORE Math: MTH 140 (3 hrs) or MTH 229 (CT) (5 hrs)*	3-5 hours	MTH122 Plane Trigonometry if MTH 140 is taken*	3 hours
	15-17 hours		15 hours

YEAR TWO

First Semester		Second Semester	
BSC Required Major Course (BSC 320, 322, or 324)	4 hours	BSC 310 Comparative Vertebrate Anatomy in lieu of BSC 227 Human Anatomy	4 hours
CHM355 Organic Chemistry I	3 hours	BSC 302 Microbiology	3 hours
PHY201 General Physics	3 hours	PHY203 General Physics	3 hours
PHY202 General Physics Lab	1 hours	PHY204 General Physics Lab	1 hours
Composition: ENG201 Advanced Composition	3 hours	CHM356 Organic Chemistry II	3 hours
		BSC 417, Biostatistics in lieu of MTH 225, Statistics	3 hours
	14 hours		17 hours

YEAR THREE -

Take PCAT and Apply to School of Pharmacy

First Semester		Second Semester	
BSC 422 Animal Physiology in lieu of BSC 228 Human Physiology	4 hours	BSC Required Major Course (BSC 320, 322 or 324)	4 hours
BSC Required Major Course (BSC 320, 322, or 324)	4 hours	Fine Arts: ART 112, MUS 142, MUS 210, or THE 112	3 hours
CHM361 Intro Organic Chemistry Lab	3 hours	Writing Intensive Humanities	3 hours
Communication: CMM103 Fund Speech Comm	3 hours	CORE Social Science (CT and International or Multicultural)	3 hours
Writing Intensive	3 hours	Critical Thinking Course if MTH 229 is not taken	3 hours
	17 hours		16 hours

YEAR FOUR/ FIRST YEAR of PharmD Program

First Semester		Second Semester	
Pharmacy Practice I (in lieu of BSC 491 Capstone)	4 hours	Pharmacy Practice II	4 hours
Immunology and Microbiology	4 hours	Principles of Disease and Drug Action	4 hours
Biomedical Chemistry (BSC Required Major Elec)	5 hours	Biopharmaceutics II	3 hours
Clinical Immunology	1 hour	Integrated Laboratory I	2 hours
Biopharmaceutics I	3 hours	Therapeutics I – Appropriate Use of Over-the-Counter Products	4 hours

First Semester**Second Semester**Intro Pharmacy Practice Experiences in
Community
Settings I (IPPE I)

1 hour

Introductory Pharmacy Practice Experiences in
Institutional Settings I (IPPE 2)

1 hour

18 hours**18 hours**

*Based on an ACT Mathematics score of 24 or higher. Students must have an ACT Mathematics score 21 or higher to begin the required Biology. Students must have an ACT Mathematics score of 23 or higher to begin required Chemistry courses. Students with an ACT Mathematics score less than 24 will be placed in the appropriate mathematics course prior to MTH 140

Minimum Number of Hours to Graduate:120 with a minimum of 40 upper level hours and 2.00 GPA

Biomedical Chemistry in lieu of third BSC Required Major Elective. Pharmacy Practice Experiences in lieu of BSC 491 Capstone.

**APPENDIX C: PATHWAY PROGRAM
FOR COLLEGE OF SCIENCE - CHEMISTRY MAJORS**

YEAR ONE

First Semester		Second Semester	
BSC120 Principles of Biology	4 hours	BSC121 Principles of Biology	4 hours
CHM211 Principles of Chemistry I	3 hours	CHM212 Principles Chemistry II	3 hours
CHM217 Principles of Chem Lab I	2 hours	CHM218 Principles of Chem Lab II	2 hours
CORE Math: MTH 229 (CT) (5 hrs)*	5 hours	PHY201 General Physics	3 hours
		PHY202 General Physics Lab	1 hours
	14	FYS 100 Freshmen First-Year Seminar	3 hours
	hours		16 hours

YEAR TWO

First Semester		Second Semester	
BSC 227, Human Anatomy	4 hours	BSC 228, Human Physiology	4 hours
CHM355 Organic Chemistry I	3 hours	BSC 250 Microbiology	4 hours
PHY203 General Physics	3 hours	CHM 345, Analytical Chemistry	4 hours
PHY204 General Physics Lab	1 hours	CHM356 Organic Chemistry II	3 hours
Composition: ENG101 English Composition I	3 hours	Composition: ENG201 Advanced Composition	3 hours
	14		18 hours
	hours		

YEAR THREE

Take PCAT and Apply to School of Pharmacy in Fall

First Semester		Second Semester	
CHM 448, Adv. Inorganic	4 hours	CHM 307, Physical Chemistry	4 hours
CHM361 Intro Organic Chemistry Lab	3 hours	CHM 432, Seminar ¹	0 hours
Communication: CMM103 Fund Speech Comm	3 hours	Writing Intensive Humanities	3 hours
Writing Intensive	3 hours	CORE Social Science (CT and International or Multicultural)	3 hours
Fine Arts: ART 112, MUS 142, MUS 210, or THE 112	3 hours	MTH 225, Introduction to Statistics	3 hours
		CHM 305 Research Methods in Chemistry	1 hours
	16		14 hours
	hours		

YEAR FOUR / FIRST YEAR of PharmD Program

First Semester		Second Semester	
Pharmacy Practice I (in lieu of CHM 491 Capstone)	4 hours	Pharmacy Practice II	4 hours
Immunology and Microbiology	4 hours	Principles of Disease and Drug Action	4 hours
Biomedical Chemistry (CHM Elective)	5 hours	Biopharmaceutics II	3 hours
Clinical Immunology	1 hour	Integrated Laboratory I	2 hours
Biopharmaceutics I	3 hours	Therapeutics I – Appropriate Use of Over-the-Counter Products	4 hours
First Semester		Second Semester	
Intro Pharmacy Practice Experiences in Community Settings I (IPPE I)	1 hour	Introductory Pharmacy Practice Experiences in Institutional Settings I (IPPE 2)	1 hour
	18		18 hours
	hours		

*Based on an ACT Mathematics score of 27 or higher.

¹Student will receive an Incomplete (I) grade. Upon completion of Pharmacy Practice I, a senior thesis will be submitted and brief oral presentation made no later the end of PharmD Year One, at which time an official grade for CHM 432 will be recorded.

Chemistry Elective (4 hours) fulfilled with Biomedical Chemistry. Capstone: Pharmacy Practice Experiences accepted for CHM 491 Capstone (2 hours)

Minimum Number of Hours to Graduate:120 with a minimum of 40 upper level hours and 2.00 GPA