



SCHOOL OF PHARMACY

ARTICULATION AGREEMENT FOR A PROGRAM OF STUDY LEADING TO A DOCTOR OF PHARMACY DEGREE BETWEEN MARSHALL UNIVERSITY AND MOUNT VERNON NAZARENE UNIVERSITY

Marshall University (Marshall), a state of West Virginia institution of higher education, whose address is One John Marshall Drive, Huntington, WV 25755; and Mount Vernon Nazarene University (MVNU), an institution of higher education whose address is 800 Martinsburg Road, Mount Vernon, Ohio 40350 in order to facilitate the efficient transfer of students between the two institutions, hereby establish this articulated program of study leading to the Doctor of Pharmacy degree to be granted by Marshall University. Students who have satisfactorily completed the program of study outlined in this agreement and who meet admission requirements for the School of Pharmacy may be admitted to the Marshall School of Pharmacy to complete the requirements for the Degree.

I. CURRICULUM

Marshall and MVNU agree that the courses listed in *Appendix A* are equivalent regarding content and student learning objectives. The successful completion of these courses are required for admission to the Program as outlined in this agreement.

MVNU faculty and staff will advise students working toward the Degree to ensure their previous, current, and future courses fulfill the requirements listed herein. This advising includes enrollment in those courses that are prerequisite requirements for the courses listed in *Appendix A*. Course substitutions may be available upon the approval of Marshall's Dean of the School of Pharmacy.

Students attending MVNU who elect to pursue the Program will complete the courses listed in *Appendix A* through MVNU. Upon admission to Marshall's School of Pharmacy, the required courses will be accepted by Marshall as equivalent to corresponding pre-pharmacy Core Course Requirements.

Upon successful completion of the Year 4 curriculum outlined below at Marshall University, students will receive a Bachelor of Science in Biology from MVNU.

Students who do not complete the sequence of courses outlined in this agreement may require additional time and expense to complete the Degree.

Provided that, nothing herein shall be interpreted as granting any student automatic admission to Marshall's School of Pharmacy.

II. APPLICATION TO PROGRAM

The normal admission process to the Pharmacy Program includes a review of an applicant's performance relative to the Program's admission requirements, an on-campus interview, and an admission decision. Typically, the Program faculty will invite approximately 40 percent of applicants for an on-campus interview.

For the purpose of this agreement, Marshall will grant interviews to all MVNU students who meet the minimum admission requirements as identified by the appropriate MVNU Dean or faculty group. MVNU will submit a list of qualified students to Marshall's School of Pharmacy Office of Student Affairs prior to August 1 of each year.

Each year, Marshall will accept a minimum of two MVNU students who meet admission requirements. Marshall may grant more admissions depending upon admission decisions made for other applicants.

The minimum admission requirements are:

1. Minimum cumulative grade point average of 3.0 at MVNU for all courses listed in *Appendix A*;
2. Completed application for preferred admission by the stated deadline through the online Pharmacy College Application Service (PharmCAS, at <http://www.pharmacas.org>);
3. Submission of the Marshall's School of Pharmacy supplemental application and all required application fees by the date of on-campus interview;
4. Successful completion of an on-campus admissions interview.
5. Student shall be responsible for payment of all fees associated with admission to the Program, including but not limited to the application fee.

III. TERMS OF THE AGREEMENT

This articulation agreement supersedes all currently existing articulation agreements between Marshall and MVNU regarding this Program.

Marshall and MVNU agree to monitor and support the provisions of this agreement to ensure program consistency and quality, and transferability for the benefit of the students of both institutions. Marshall and MVNU agree to coordinate changes in the course content or requirements for any courses listed in the articulation agreement in order to ensure continued comparability between the courses offered on each campus.

Both institutions will maintain their accreditation with the regional accrediting agency overseeing each institutions' operations. Marshall shall maintain its accreditation with the Accreditation Council for Pharmacy Education.

Interpretation of this agreement will be made within the laws of the State of West Virginia.

Marshall and MVNU 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 appropriate deans at both institutions. This agreement may

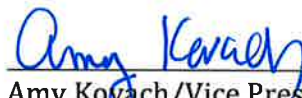
be terminated upon thirty (30) days written notice to the other party: provided that the students currently pursuing a degree shall be permitted to complete the degree.

Students pursuing the Degree through the articulation agreement will be bound by the curriculum requirements in effect at the time they are officially accepted into the Pharmacy program. The attached curriculum requirements will be in effect until officially changed and agreed upon by both institutions.

The terms of this agreement are hereby approved by the respective administration of the two schools.


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

12/17/22
Date


Amy Kovach/Vice President for Academic Affairs
Mount Vernon Nazarene University

11/21/22
Date

APPENDIX A
COURSE EQUIVALENCIES FOR SCHOOL OF PHARMACY DOCTOR OF PHARMACY DEGREE

| CORE COURSE REQUIREMENT | MARSHALL COURSE | MVNU EQUIVALENT |
|---|------------------|-----------------|
| Biology: <i>Principles of Biology</i> w/lab | BSC 120 | BIO1054 (4) |
| Biology: <i>Principles Biology</i> w/lab | BSC 121 | BIO1074 (4) |
| Biology: <i>Human Anatomy</i> | BSC 227 | BIO3045 (5) |
| Biology: <i>Human Physiology</i> | BSC 228 | BIO3104 (4) |
| Biology: <i>Microbiology and Human Disease</i> | BSC 250 | BIO3004 (4) |
| Chemistry: <i>Principles Chemistry I</i> w/lab | CHEM 211 and 217 | CHE1034 (4) |
| Chemistry: <i>Principles Chemistry II</i> w/lab | CHEM 212 and 218 | CHE1044 (4) |
| Chemistry: <i>Organic Chemistry I</i> | CHEM 355 | CHE3024 (4) |
| Chemistry: <i>Organic Chemistry II</i> w/lab | CHEM 356 and 361 | CHE3034 (4) |
| English: <i>Beginning Composition</i> | ENG 101 | ENG1083G |
| English: <i>Advanced Composition</i> | ENG 201 | BIO4112 (2) |
| Mathematics: <i>Calculus with Analytic Geometry I</i> | MTH 229 | MAT1034 (4) |
| Mathematics: <i>Statistics</i> | STA 225 | MAT2063 (3) |
| Physics: <i>College Physics I</i> w/lab | PHY 201/201 | PHY2014 (4) |

ADDITIONAL CURRICULUM REQUIREMENTS FOR MVNU STUDENTS
MATRICULATING TO MARSHALL UNIVERSITY'S SCHOOL OF PHARMACY
THAT WILL RESULT IN RECEIPT OF BACHELOR OF SCIENCE IN BIOLOGY FROM
MVNU:

| Year | Term | Number | Course | Credits |
|------|--------|----------|--|---------|
| 1 | Fall | BIO1054 | General Zoology | 4 |
| | | CHE1034 | General Chemistry I with Lab | 4 |
| | | ENG1083G | College Writing | 3 |
| | | HUM1012G | Discipleship of the Christian Mind | 2 |
| | | PED1002G | Principles of Health & Fitness | 2 |
| | | PSY1013G | General Psychology | 3 |
| | Spring | BIB1023G | The Narrative of Scripture | 3 |
| | | BIO1074 | General Botany | 4 |
| | | CHE1044 | General Chemistry II with Lab | 4 |
| | | ART1002G | Art in the Western World | 2 |
| | | HIS1013G | The Western Tradition in World Context | 3 |
| 2 | Fall | BIO3034 | Genetics with Lab | 4 |
| | | CHE3024 | Organic Chemistry I with Lab | 4 |
| | | PHY2014 | General Physics I with Lab | 4 |
| | | PHI2013G | Love, Justice, and the Good Life | 3 |
| | | COM1023G | Public Speaking | 3 |
| | Spring | BIO3045 | Comparative Vertebrate Anatomy | 5 |
| | | BIO3154 | Aquatic Environments | 4 |
| | | CHE3034 | Organic Chemistry II with Lab | 4 |

| | | | | |
|---|--------|----------|---------------------------------------|------------|
| | | MAT1034 | Calculus I | 4 |
| 3 | Fall | BIO2064 | Invertebrate Zoology | 4 |
| | | BIO3104 | Human Physiology | 4 |
| | | BIO4011 | Bioethics | 1 |
| | | SCI3012G | Science and the Modern Mind | 2 |
| | | THE3003G | Christian Beliefs and Convictions | 3 |
| | | ENG1063G | Engaging Literature | 3 |
| | Spring | BIO3004 | Microbiology | 4 |
| | | BIO4112 | Technical Writing in Biology | 2 |
| | | HUM2013G | The Arts and Human Identity | 3 |
| | | ITD5013G | Contemporary Concerns | 3 |
| | | MAT2063 | Statistics | 3 |
| | | | Crossing Cultures (travel experience) | 3 |
| | | | TOTAL | 104 |

Year 4 (Marshall Univ. Pharm.D.)

| Fall | | Spring | |
|---|-----------|---|-----------|
| Course | Credits | Course | Credits |
| 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 |
| Total | 17 | Total | 19 |

Notes:

Students attending MVNU who elect to pursue the Pharm.D. Degree program at Marshall University will have completed all courses listed prior to matriculation within the pharmacy program through MVNU or have received transfer credit for courses completed at peer institutions. 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.