

PHARMACY, PHARM.D.

Program Description

The mission of the Marshall University School of Pharmacy is to prepare its students to become pharmacy practitioners that excel as skilled and productive health care professionals in the provision of services, in the standards of care, and in the discovery of new knowledge that ensures optimal medication therapy outcomes. The school utilizes an integrated, interprofessional education approach combined with a team-based clinical philosophy that emphasizes inquiry-based learning, while advancing scholarship, research, and patient care, all directed toward the goal of improving the health and well-being of West Virginians, residents of the Tri-state region, and the nation.

Central to the program's mission is the development of the key skills and abilities (termed terminal outcomes) required for competent pharmacy practice. These terminal outcomes expect all students who graduate from the Marshall University School of Pharmacy Pharm.D. program to be able to:

1. Improve patient quality of life,
2. Contribute to the betterment of patient care through integration in health care teams,
3. Incorporate cultural awareness and empathy into practice,
4. Accurately and safely dispense and formulate medication dosage forms,
5. Manage business, personal, and personnel responsibilities,
6. Contribute to the growth of the profession,
7. Improve population-based outcomes through application of public health and disease prevention principles,
8. Communicate appropriately with all stakeholders,
9. Use best available medical evidence during performance of professional responsibilities,
10. Exhibit professional behavior,
11. Assure patient safety.

The program requires a minimum of 4 years and 9 semesters of coursework, capstone, or practicum experiences.

Accreditation Status

Marshall University's Doctor of Pharmacy program has been granted full accreditation status by the Accreditation Council for Pharmacy Education (ACPE) Board of Directors. For an explanation of the ACPE accreditation process, please contact the Accreditation Council for Pharmacy Education, 135 South LaSalle Street, Suite 4100, Chicago, IL 60603, 312-644-3575; FAX 312-664-4652, website www.acpe-accredit.org (<http://www.acpe-accredit.org>)

Admission Requirements

Minimum Requirements for Admission

Admission to Marshall University School of Pharmacy is competitive. The school admits a maximum of 80 students per year. Applicants are directed to apply to the Marshall University School of Pharmacy through the Pharmacy College Application Service (PharmCAS, www.pharmacas.org (<http://www.pharmacas.org>)). Completion of a

secondary application directly to the Marshall School of Pharmacy is also required.

Admission to the Pharm.D. program requires the student to have:

1. Completed all required pre-pharmacy courses (*note*: inquiries regarding prerequisite course equivalency should be forwarded to MUSOP Student Affairs at 304-696-7354). These courses include:

Code	Title	Credit Hours
	English Composition (2 semesters)	6
	Calculus (1 semester)	3
	Statistics (1 semester)	3
	Biology with Lab (2 semesters)	8
	Chemistry with Lab (2 semesters)	8
	Human Anatomy (1 semester)	4
	Human Physiology (1 semester)	4
	Microbiology (1 semester)	4
	Organic Chemistry with Lab (2 semesters)	8
	Physics with Lab (1 semester)	4
	Social Science elective (1 semester)	3

2. A recommended minimum undergraduate Grade Point Average (GPA) of 2.5 or higher on a 4.0 scale for all previously completed undergraduate university work.
3. A recommended minimum GPA of 2.75 or higher on a 4.0 scale for all prerequisite courses.
4. Three (3) letters of professional recommendation requested from persons such as pharmacists, supervisors, and professors who can tell us about your academic and/or work capabilities which would enable you to succeed in the School of Pharmacy.
5. Completed both an application through PharmCAS and a supplemental application through the Marshall University School of Pharmacy (www.marshall.edu/pharmacy/application (<http://www.marshall.edu/pharmacy/application/>)).
6. Submitted all required application fees.
7. Successfully completed an on-site interview.

Program Requirements

Academic Performance

Students are eligible for graduation upon successful completion of all academic and clinical (Professional Practice Experiences) requirements and documented competency in the P4 Annual Assessment of Competency. The student must earn a minimum of 152 semester credit hours. The expected graduation grade point average is 3.0 with the minimum grade point average of 2.5. The student is responsible for knowing and satisfying degree and graduation requirements. Students must be enrolled in the term in which they plan to graduate.

Time Limitations

If a student has not completed his/her Pharm.D. degree within six years from the end of the first course to be counted toward his/her degree, and if the student has not been enrolled in a course toward that degree for the most recent one year when that seven-year limit is reached (meaning the sixth year), then the student will be dropped from the program. To continue to work on that degree, the student must reapply for admission to that degree program through

the regular graduate admission process, and pay the appropriate admission fees.

Plan of Study

The curriculum is designed to be completed over 4 years or 9 semesters. A summary of the courses composing the curriculum is found below:

Course	Title	Credit Hours
First Year		
First Semester		
PHAR 511	Clinical Immunology	1
PHAR 522	Fund Med Chem	2
PHAR 541	Pharmacy Practice I	4
PHAR 531	Biopharmaceutics I	3
PHAR 542	Immunology and Microbiology	4
PHAR 546	Pharmaceutical Biochemistry	4
Credit Hours		18
Second Semester		
PHAR 521	Integrated Laboratory I	2
PHAR 532	Biopharmaceutics II	3
PHAR 543	Pharmacy Practice II	4
PHAR 544	Prin of Disease & Drug Action	4
PHAR 545	Therapeutics I (Appropriate use of over-the-counter products)	4
PHAR 811	Pharm Prac Exp I (IPPE 1)	1
PHAR 819	Long Care of Patient	1
Credit Hours		19
Second Year		
First Semester		
PHAR 611	Integrated Laboratory II	1
PHAR 621	Pharmacy Law & Ethics	2
PHAR 622	Drug Info & Comm Skills	2
PHAR 631	Pharmacometrics	3
PHAR 632	PPM Leadership	3
PHAR 661	Therapeutics II	6
PHAR 813	IPPE 3 Community 2	1
PHAR 819	Long Care of Patient	1
PHAR 821	IPPE Institutional	2
Credit Hours		21
Second Semester		
PHAR 612	Therapeutic Drug Dosing	1
PHAR 633	Patient Care Skills Lab	3
PHAR 634	PPM Finance	3
PHAR 635	Research Outcomes Patient Care	3
PHAR 671	Therapeutics III	7
PHAR 819	Long Care of Patient	1
Credit Hours		18
Third Year		
First Semester		
PHAR 711	Med Therapy Management	1
PHAR 722	PPM Patient Safety	2

PHAR 741	Ther-Endocrine	4
PHAR 751	Neuro & Psychiatric Dis	5
PHAR 801	Special Topics I	3
PHAR 816	Inpatient Clinical Skills	1
Select one of the following two courses:		1
PHAR 815	Phar Prac Exp 5 IPPE 5	
PHAR 817	Intro Phar Prac Exp IPPE 7	
PHAR 819	Long Care of Patient	1
Credit Hours		18
Second Semester		
PHAR 712	Capstone Diabetes Care	1
PHAR 721	Therapeutics 7	2
PHAR 731	Case Studies	3
PHAR 761	HemeOnc Nutrition Hepa MS	6
PHAR 801	Special Topics I	3
Select one of the following two courses:		1
PHAR 815	Phar Prac Exp 5 IPPE 5	
PHAR 817	Intro Phar Prac Exp IPPE 7	
PHAR 819	Long Care of Patient	1
Credit Hours		17
Fourth Year		
First Semester		
SUMMER/FALL SPRING		
PHAR 881	APPE 1-General Medicine	5
PHAR 882	APPE 2-Amb Care/Prim Care	5
PHAR 883	APPE 3-Advanced Community	5
PHAR 884	APPE 4-Adv Institutional	5
PHAR 885	APPE 5-Geriatrics	5
PHAR 886	APPE 6-Diverse Populations	5
PHAR 887	APPE 7 & 8-Electives	5
PHAR 887	APPE 7 & 8-Electives	5
PHAR 891	Pharmacy Capstone	4
Credit Hours		44
Total Credit Hours		155

Note: PHAR courses may not always coincide with the university academic calendar.