

## Degree Available at SIUE

- Doctor of Pharmacy/Master of Science in Healthcare Informatics

## Doctor of Pharmacy / Master of Science in Healthcare Informatics at SIUE

Healthcare informatics merges computer technology and clinical expertise to effectively organize, analyze, manage and use clinical knowledge and data for problem solving and decision making. Knowing that these skills are valuable to future pharmacists, SIUE now offers a concurrent Doctor of Pharmacy and Master of Science in healthcare informatics (MSHI) program.

Students pursuing this program will benefit from:

- An understanding of how informatics fit within the healthcare system and patient care
- Increased marketability for positions that combine these fields
- A growing field with opportunity for advancement
- Money saved from reduced credit hours

## Admission Requirements

Admission to the concurrent degree program is limited and competitive. Students who choose to pursue this option will begin to take courses for the Master of Science in healthcare informatics (MSHI) only after they have completed the first year of the professional pharmacy program (P1). Students must have earned a minimum GPA of 3.0 during the P1 year. Additionally, students must meet all admission requirements for the Graduate School and all admission requirements for the MSHI program.

## PharmD/MSHI Application Procedures

- No later than March 15 of the P1 year, pharmacy students must submit an application available from the School of Pharmacy Office of Professional and Student Affairs.
- All applicants to the PharmD/MSHI program must request that official transcripts be forwarded to Graduate Admissions from all postsecondary institutions the applicant has attended.
- Students who took pre-pharmacy courses at SIUE and have a complete set of transcripts on file with the University need not submit transcripts.
- Applicants will be notified of their admission status no later than April of the P1 year.

For more information on the PharmD/MSHI, contact the Office of Professional and Student Affairs at [pharmacy@siue.edu](mailto:pharmacy@siue.edu) or 618-650-5150.

## MSHI Faculty

**Frank Lyerla, PhD, RN, CAHIMS, FHIMSS**

Program Director

Associate Professor

Department of Primary Care and Health Systems Nursing, School of Nursing

## Pharmacy Practice Faculty

**Jingyang Fan, PharmD**

Associate Dean of Academic Affairs and Clinical

Associate Professor

Curriculum, Assessment, Performance-Based Assessment, Cardiology

## Jessica Kerr, PharmD, CDCES

Associate Dean of Student Affairs and Professor

Diabetes Mellitus and Cardiovascular Risk Reduction,

Preventative Outreach to Youth, Development and

Implementation of Sustainable Community Initiatives



# Curriculum – Doctor of Pharmacy/Master of Science in Healthcare Informatics Concurrent Degree Program

## First Professional Year

## Second Professional Year

	First Professional Year	Second Professional Year		
Fall	PHPS 700-Principles of Drug Action I	4	PHPS 720n-Pharmacokinetics	3
	PHPS 702- Biochemical Principles for Pharmacy	3	PHAS 728n-Pharmacy Management I*	2
	PHPS 704- Biopharmaceutics and Drug Delivery I	2	PHPT 730a-Integrated Pharmacotherapeutics I	4
	PHPR 711-Drug Information	1	PHPT 730b-Integrated Pharmacotherapeutics II	4
	PHPR 717-Patient Centered Communication	1	PHEP 739a- Personal and Professional Development III	3
	PHEP 719a-Personal and Professional Development	2	PHPR 735n-Physical Assessment & Patient Care Skills	2
	PHPR 718a-Skills Lab I	1	PHPR 738a-Skills Lab III	1
	PHAS 708-Health Care Systems	3		
	PHAS 716-Ethical Issues in Healthcare	1		
Spring	PHPS 701-Principles of Drug Action II	2	PHPT 730c-Integrated Pharmacotherapeutics III	4
	PHPS 705n-Biopharmaceutics and Drug Delivery II	3	PHPT 730d-Integrated Pharmacotherapeutics IV	4
	PHPS 712- Immunology and Immunization Training	3	PHAS 709-Healthcare and Financial Management	2
	PHEP 719b-Personal and Professional Development II	1	PHEP 739b-Personal and Professional Development IV	3
	PHPR 718b-Skills Lab II	1	PHPR 738b-Skills lab IV	1
	PHPR 710-Biomedical Literature Evaluation	3	PHPR 744-Health Promotion and Literacy	2
	PHPS 707n-Calculations	1	PHPS 703-Principles of Pharmacogenomics	2
	PHPR 713n-Self Care and Alternative Medicines	3		
Sum	IT 508 – Instructional Design and Media Selection for Healthcare Informatics	3	CMIS 518: Seminar in CMIS	3
			CMIS 515 – Project Management Standard Process	3

## Third Professional Year

## Fourth Professional Year

	Third Professional Year	Fourth Professional Year		
Fall	PHPT 750a-Integrated Pharmacotherapeutics V	4	APPE III	6
	PHPT 750b-Integrated Pharmacotherapeutics VI	4	APPE IV	6
	PHPR 758a-Skills Lab V	1	APPE V##	3
	PHAS 756-Pharmacy and Population Health*	2	CMIS 517 – Enterprise Resource Planning	3
	PHEP 759a-Personal and Professional Development V	1		
	PHAS 733n-Pharmacy Law	2		
	NURS 509-Interdisciplinary Healthcare Informatics**	3		
CS 430 – Information Storage and Retrieval	3			
Spring	PHPT 750c-Integrated Pharmacotherapeutics VII	4	APPE VI	6
	PHPT 750d-Integrated Pharmacotherapeutics VIII	4	APPE VII	6
	PHPR 758b-Skills Lab VI	1	APPE VIII	6
	PHEP 759b-Personal and Professional Development VI	1		
	PHEP 751-Essentials of Research Application	1		
	PHAS 754-Pharmacy Management II*	2		
	Elective (Pharmacy Elective or Independent Study)	1		
	NURS 512 – Managing Quality and Safety in Healthcare**	3		
NURS 511 – Social Ethical and Legal Issues in an Informative Age**	3			
Sum	APPE I	6		
	APPE II	6		
	CS 560 – Information Discovery in Electronic Healthcare Records	3		

**NOTES** – \*Will count toward MHI curriculum \*\*Will count toward PharmD elective course requirements ## Students in the concurrent degree program will choose an APPE: ImPaCT project that suffice the capstone requirement of the MS program.

## Graduation Requirements

Students enrolled in the concurrent program will need to maintain a cumulative GPA of 3.0 or higher in the graduate courses. Furthermore, the retention policy for the Master of Science in healthcare informatics (MSHI) applies to the graduate courses in the concurrent program. The School of Pharmacy academic standards and progression policies apply to the PharmD courses in the concurrent program. Students who trigger the retention policy in the MSHI program and/or are placed on pharmacy academic probation must meet with both the MSHI program director and the School of Pharmacy Office of Professional and Student Affairs to discuss a retention and remediation plan.

## Program of Study

Concurrently enrolled PharmD/Master of Science in healthcare informatics (MSHI) students will be allowed to use some pharmacy courses toward the completion of MSHI electives, and some MSHI courses toward the completion of pharmacy electives. Instead of 154 credit hours in the PharmD program and 36 credit hours in the MSHI program for a total of 190 credit hours, students in the concurrent program will take 145 hours in the PharmD program and 27 hours in the MSHI program for a total of 172 credit hours, resulting in a savings of 18 credit hours toward both degrees.

## Contact Information

School of Pharmacy  
Phone: 618-650-5150  
Email: pharmacy@siue.edu

This information is concurrent with the 2020-2021 Academic Catalog. Courses are subject to change at any time.