

# Doctor of Pharmacy/Master of Science in Health Informatics & Analytics

## Curriculum Guide

### First Year

Fall Semester			Spring Semester		
BIO 012/L	Pre-Professional Biology I & Lab ( <i>LIFE AOI</i> )	4 CR	CHEM 002/4	General Chemistry II & Lab	4 CR
CHEM 001/3	General Chemistry I & Lab ( <i>PHSC AOI</i> )	4 CR	ELEC ---	Drake Curriculum/General Electives	3 CR
ELEC ---	Drake Curriculum/General Electives	3 CR	HSCI 141/L	Human Anatomy/Lab	4 CR
FYS	First Year Seminar	3 CR	MATH 050	Calculus I ( <i>QUAN AOI</i> )	3 CR
PHAR 011	CAPS I (Career, Academic, & Professional Success)	1 CR	PHAR 031	CAPS II (Career, Academic, & Professional Success)	1 CR
<b>Total Semester Credit Hours</b>		<b>15</b>	<b>Total Semester Credit Hours</b>		<b>15</b>

### Second Year

Fall Semester			Spring Semester		
BIO 095	Medical Microbiology	3 CR	CHEM 108/110	Organic Chemistry II & Lab	4 CR
CHEM 097/098	Organic Chemistry I & Lab	4 CR	ELEC ---	Drake Curriculum/General Electives	6 CR
ELEC ---	Drake Curriculum/General Elective	6 CR	ENG 052	Public Voices ( <i>CITZ AOI</i> )	3 CR
ELEC ---	Drake Curriculum/General Elective ( <i>WRIT AOI</i> )	3 CR	PHAR 071	CAPS IV (Career, Academic, & Professional Success)	0.5 CR
PHAR 051	CAPS III (Career, Academic, & Professional Success)	0.5 CR	HSCI 060	Statistics in Health Sciences	3 CR
<b>Total Semester Credit Hours</b>		<b>16.5</b>	<b>Total Semester Credit Hours</b>		<b>16.5</b>

### Doctor of Pharmacy 1

Fall Semester			Spring Semester		
ELEC ---	Drake Curriculum/General Electives	2 CR	PHAR 123	Continuing Professional Development (CPD) II	1 CR
PHAR 122	Continuing Professional Development (CPD) I	1 CR	PHAR 132	Pathophysiology	4 CR
PHAR 125	Physiology	4 CR	PHAR 133	Principles of Drug Action I	5 CR
PHAR 130	Biochemistry	4 CR	PHAR 138	Pharmaceutical Calculations	2 CR
PHAR 131	Intro to Pharm Science	3 CR	PHAR 140	Pharmaceutics I	2 CR
PHAR 144	Basic Pharmacy Skills & Applications I	2 CR	PHAR 145	Basic Pharmacy Skills & Applications II ( <i>INFO AOI</i> )	2 CR
PHAR 149	Immunizations	1 CR	PHAR 171	Health Care Systems and Policies	3 CR
<b>Total Semester Credit Hours</b>		<b>17</b>	<b>Total Semester Credit Hours</b>		<b>19</b>

### Summer Semester

MS HIA 2--	MS HIA COURSES (see course list)	6 CR
<b>Total Semester Credit Hours</b>		<b>6</b>

### Doctor of Pharmacy 2

Fall Semester			Spring Semester		
PHAR 134	Principles of Drug Action II	5 CR	MS HIA 2--	MS HIA COURSE (see course list)	3 CR
PHAR 141	Pharmaceutics II	3 CR	PHAR 135	Principles of Drug Action III	4 CR
PHAR 142	Kinetics	3 CR	PHAR 143	Therapeutic Drug Monitoring	2 CR
PHAR 154	Intermediate Pharmacy Skills & Applications I	2 CR	PHAR 155	Intermediate Pharmacy Skills and Applications II	2 CR
PHAR 167	Continuing Professional Development (CPD) III	1.5 CR	PHAR 168	Continuing Professional Development (CPD) IV	1.5 CR
PHAR 172	Literature Evaluation Methods	3 CR	PHAR 169	Self-Care and Non-Prescription Products	3 CR
			PHAR 190	Therapeutics I	3 CR

<b>Total Semester Credit Hours</b>	<b>17.5</b>	<b>Total Semester Credit Hours</b>	<b>18.5</b>
<b>Summer Semester</b>			
MS HIA 2--	MS HIA COURSES (see course list)	6 CR	
<b>Total Semester Credit Hours</b>	<b>6</b>		
<b>Doctor of Pharmacy 3</b>			
<b>Fall Semester</b>		<b>Spring Semester</b>	
MS HIA 2--	MS HIA COURSES (see course list)	6 CR	MS HIA 2-- MS HIA COURSE (see course list) 3 CR
PHAR 174	Management in Pharmacy	3 CR	PHAR 162 Pharmacy Law & Ethics <i>(VE AOI)</i> 3 CR
PHAR 175	Continuing Professional Development (CPD) V	2 CR	PHAR 173 Applied Social and Administrative Pharmacy 3 CR
PHAR 184	Advanced Pharmacy Skills & Applications I <i>(EI REQ)</i>	2 CR	PHAR 176 Continuing Professional Development (CPD) VI 2 CR
PHAR 191	Therapeutics II	5 CR	PHAR 185 Advanced Pharmacy Skills & Applications II 2 CR
			PHAR 192 Therapeutics III 5 CR
<b>Total Semester Credit Hours</b>	<b>18</b>	<b>Total Semester Credit Hours</b>	<b>18</b>
<b>Summer Semester</b>			
MS HIA 2--	MS HIA COURSE (see course list)	3 CR	
<b>Total Semester Credit Hours</b>	<b>3</b>		
<b>Doctor of Pharmacy 4 (12 months/May through May)</b>			
<b>Fall Semester</b>		<b>Spring Semester</b>	
HSCI 285	** Practicum/Capstone	3 CR	PHAR 285 Rotations 18 CR
PHAR 285	Rotations	22 CR	PHAR 177 Continuing Professional Development VII 1 CR
PHAR 177	Continuing Professional Development VII	0.5 CR	
<b>Total Semester Credit Hours</b>	<b>25.5</b>	<b>Total Semester Credit Hours</b>	<b>19</b>
<b>Total Program Hours: 230.5</b>			

**Program Notes:**

To view the remaining MS HIA requirements that should be taken in the above course slots, see the [Drake MS HIA curriculum pages](#). Students may take summer course work or courses the semester after graduation to complete the MS HIA.

Following completion of 90 credit hours and admission into the MS HIA program, students may enroll in MS HIA coursework.

**RECOMMENDED SUMMER COURSEWORK:** Students who wish to complete both degrees in the four professional years will need to plan to complete MS HIA courses during the summer sessions. This program requires a careful selection of courses for the MS HIA degree as electives in the pharmacy curriculum. Students may enroll in additional summer coursework or complete final MS HIA courses after PharmD completion. If students wish to take beyond the required credit hours for the semester, they will need to request an "Over 18 Hours Request Form," which can be found in the Forms Library, and the additional course work will not qualify for an overload fee waiver.

A total of 211.5 credits are required to complete the pharmacy degree. Five (5) professional elective credits are satisfied by MS HIA coursework.

**General Education Electives:** Students who do not meet the General Education Articulation Agreement must complete the [Drake Curriculum](#) general education requirements (Areas of Inquiry) and other general elective credits for a total of 26 credits. Area of Inquiry (AOI) courses not fulfilled by curricular requirements are: Artistic Literacy, Global and Cultural Understanding, and Historical Foundations (9 credits).

**Professional Electives Policy:** Core curricula of CPHS degree programs may require professional elective courses that permit exploration of and/or advanced study in areas of professional interest within the student's primary degree. Professional electives provide the student with an opportunity to not only pursue areas of intellectual interest, but also to develop an individual "brand" that may benefit them in their professional or academic future. Students who desire to have a non-approved electives count toward professional elective credit should apply for an exception to program policy prior to taking the course whenever possible. Professional electives must be taken for a grade unless the course is designed as credit/no credit. Students should refer to their degree audit for determination of the total number of required professional electives. Students should review the [student handbook](#) for the complete professional elective policy and details specific to their degree program.