

DRAKE UNIVERSITY**Programs of Study****Doctor of Pharmacy (PharmD)/Masters of Sciences in Health Informatics and Analytics (HIA) Program****First Year**

FALL				SPRING			
BIO 012/L	Pre-professional Biology I & Lab (LIFE AOI)	4	CR	CHEM 002/4	General Chemistry II & Lab	4	CR
CHEM 001/3	General Chemistry I & Lab (PHSC AOI)	4	CR	ELEC ---	Drake Curriculum/General Electives	3	CR
ELEC ---	Drake Curriculum/Gen Elec.	3	CR	HSCI 141/L	Human Anatomy/Lab	4	CR
FYS	First Year Seminar	3	CR	MATH 050	Calculus I	3	CR
INTD 025	Bulldog Foundations	1	CR	PHAR 031	CAPS II (Career, Academic & Professional Success)	0.5	CR
PHAR 011	CAPS I (Career, Academic & Professional Success)	0.5	CR				
Semester Total Credit Hours			15.5	Semester Total Credit Hours			14.5

Second Year

FALL				SPRING			
BIO 095	Medical Microbiology	3	CR	CHEM 108/10	Organic Chemistry II & Lab	4	CR
CHEM 097/98	Org Chem/Lab I OR PHY 011 OR BIO 103/L ⁵	4	CR	ELEC ---	Drake Curriculum/General Electives	6	CR
ELEC ---	Drake Curriculum/General Electives	6	CR	PHAR 071	CAPS IV (Career, Academic & Professional Success)	0.5	CR
ELEC ---	Drake Curriculum/Gen Elec. (WRIT AOI)	3	CR	SCSR 073	Public Speaking (CITZ AOI)	3	CR
PHAR 051	CAPS III (Career, Academic & Professional Success)	0.5	CR	STAT 060	Stats for Life Sciences (OR HSCI 060) (CRIT AOI)	3	CR
Semester Total Credit Hours			16.5	Semester Total Credit Hours			16.5

Doctor of Pharmacy 1

FALL				SPRING			
ELEC ---	Drake Curriculum/General Electives	3	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 1	2	CR	PHAR 145	Basic Pharmacy Skills & Applications 2	2	CR
Semester Total Credit Hours			17	Semester Total Credit Hours			19
SUMMER							
MS HIA ---	Electives	6	CR				
Semester Total Credit Hours			6				

Doctor of Pharmacy 2

FALL				SPRING			
PHAR 134	Principles of Drug Action II	5	CR	HSCI 260	Survey of Evidence Based Health Care	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 149	Immunizations	1	CR	PHAR 155	Intermediate Pharmacy Skills & Applications II	2	CR
PHAR 154	Intermediate Pharmacy Skills & Applications I	2	CR	PHAR 168	Continuing Professional Development (CPD) IV	1.5	CR
PHAR 167	Continuing Professional Development (CPD) III	1.5	CR	PHAR 169	Nonprescription Therapies	3	CR
PHAR 172	Literature Evaluation Methods	3	CR				

Semester Total Credit Hours		18.5	PHAR 190 Therapeutics I	3 CR	
			Semester Total Credit Hours	18.5	
SUMMER					
MS HIA ---	Electives	6 CR			
Semester Total Credit Hours		6			
Doctor of Pharmacy 3					
FALL			SPRING		
HSCI 201	Introduction to Health Informatics	3 CR	HLTH 266	Healthcare Regulation, Law and Advoc OR (HLTH 264)	3 CR
PHAR 174	Management in Pharmacy	3 CR	PHAR 162	Pharmacy Law & Ethics	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	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
STAT 240/MDAL 240	Statistical Modeling	3 CR	PHAR 192	Therapeutics III	5 CR
Semester Total Credit Hours		18	Semester Total Credit Hours		18
SUMMER					
HSCI 285	Practicum/Capstone	3 CR			
IS 231/MDAL 230	Data Management and Visual Analytics	3 CR			
Semester Total Credit Hours		6			
Doctor of Pharmacy 4 (12 months/May through May)					
FALL			SPRING		
PHAR 285	Rotations	22 CR	PHAR 285	Rotations	18 CR
Semester Total Credit Hours		22	Semester Total Credit Hours		18
Total Program Hours: 230					

Program Notes:

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

Entrance Exam Required as part of the application process: GRE, GMAT, MCAT, PCAT, DAT, or OAT

Note: The entrance exam is automatically waived if you are a current Drake University undergraduate or professional program student with cumulative GPA of 3.25 or higher and have completed 90 semester credits.

RECOMMENDED SUMMER COURSE WORK: 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 the dual curriculum requires more than 18 credit hours in the fall or spring semesters, an overload credit fee waiver will be requested on the student's behalf. 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 credits are required to complete the pharmacy degree.

Students will be expected to complete the Drake Curriculum requirements. Drake Curriculum requirements not fulfilled through required course work: Artistic Experience, Historical Foundations (2 courses), Global and Cultural Understanding, and Written Communication.

Professional Electives (5 cr.) are satisfied by MS HIA coursework. P1 students entering Fall 2019 and prior are required to complete six (6 cr.) credits of professional elective credits, which will be satisfied by MS HIA coursework.

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.

Potential Professional Electives:

- • IS 210/MDAL 210 – Business Analytics, Teams, and Projects (3 credit hours)
- • IS 220/MDAL 220 – Information Technology Legal and Ethical Issues (3 credit hours)
- • STAT 260/MDAL 260 - Applied Analytics Project – 3 Credit Hours
- • MBA 245 – Leading with Data (3 credit hours)
- • MBA 254 – Leadership & Human Capital Development (3 credit hours)
- • QUAN 270 – Quantitative Analytical Methods (3 credit hours)
- • HSCI 261 – Review of Statistics for Evidence-Based Healthcare
- • HSCI 262 – Critical Appraisal in EBHC (3 credit hours)
- • HLTH 261 – Healthcare Policy (3 credit hours)
- • HLTH 263 – Healthcare Administration (3 credit hours)

Certificate Program Options: Students may also earn the Evidence Based Health Care or the Data Analytics Leadership Certificates by completing the following courses:

- • Evidence Based Health Care: HSCI 260, HSCI 261, HSCI 262, HSCI 270
- • Data Analytics Leadership: IS 210/MDAL 210, IS 220/MDAL 220, STAT 260/MDAL 260

**You may choose a max of 3 (9 credits) of the following electives: IS 210/MDAL 210, IS 220/MDAL 220, STAT 260/MDAL 260, MBA 245, MBA 254, QUAN 270. here.