

2013 Doctor of Pharmacy Curriculum

First Professional Year		Fall Semester	Spring Semester
Course Number	Course Title	Credit Hour	Credit Hour
PHA 361	Pharmaceutics/Biopharmaceutics I	4.0	
PHA 361L	Pharmaceutics Laboratory	1.0	
PHA 321	Anatomy and Physiology	4.0	
PHA 321L	Anatomy and Physiology Laboratory	1.0	
PHA 301	Pharmaceutical Care I	3.0	
PHA 311	Physiological Chemistry	3.0	
PHA 203	Profession of Pharmacy IV	2.0	
		Total 18.0	
PHA 362	Pharmaceutics/Biopharmaceutics II		4.0
PHA 362L	Pharmaceutics Laboratory		1.0
PHA 314	Medicinal Chemistry I		4.0
PHA 332	Biostatistics/Literature Evaluation		3.0
PHA 302	Pharmaceutical Care II		3.0
			Total 15.0
Summer Session			
PHA 370	Community IPPE	1 credit hr. (2 weeks, 80 hrs)	
Second Professional Year			
PHA 463	Pharmacokinetics	5.0	
PHA 413	Medicinal Chemistry II	4.0	
PHA 423	Microbiology/Immunology	4.0	
PHA 431	Health Care Administration I	2.0	
PHA 401	Pharmaceutical Care III	3.0	
		Total 18.0	
PHA 432	Health Care Administration II		3.0
PHA 402	Pharmaceutical Care IV		3.0

PHA 490	Introduction to Clerkships		2.0
PHA 480	Drug and Disease Management I		3.0
PHA 482	Drug and Disease Management II		3.0
PHA 484	Drug and Disease Management III		4.0
			Total 18.0
Summer Session			
PHA 470	Institutional IPPE	1 credit hr. (3 weeks, 120 hrs)	

Third Professional Year		Fall Semester	Spring Semester
Course Number	Course Title	Credit Hour	Credit Hour
PHA 501	Pharmaceutical Care V	3.0	
PHA 573	Patient Assessment	1.0	
PHA 573L	Patient Assessment Lab	1.0	
PHA 581	Drug and Disease Management IV	3.0	
PHA 583	Drug and Disease Management V	3.0	
PHA 585	Drug and Disease Management VI	4.0	
PHA 531	Introduction to Research Methods	1.0	
	Elective	2.0	
		Total 18.0	
PHA 532	Pharmacy Law and Ethics		2.0
PHA 574	Pharmacy Practice Laboratory		4.0
PHA 586	Drug and Disease Management VII		4.0
PHA 588	Drug and Disease Management VIII		4.0
	Elective		2.0
	Elective		2.0
			Total 18.0

Summer Session		
PHA 570	Elective IPPE	1 credit hr. (3 weeks, 120 hrs)
Fourth Professional Year		Three-Semester Period: Summer, Fall & Spring
PHA 650	Seminar I	1.0
PHA 651	Seminar II	1.0
PHA 652	Seminar III	1.0
PHA 670	Community Pharmacy Externship*	5.0
PHA 671	Institutional Pharmacy Externship*	5.0
PHA 672	Community/Institutional Pharmacy Externship*	5.0
PHA 683	Geriatrics**	5.0
PHA 685	Administration/Management**	5.0
PHA 690	Internal Medicine I	5.0
PHA 691	Ambulatory Care I	5.0
PHA 692	Ambulatory Care II	5.0
PHA 693	Pediatrics**	5.0
PHA 694	Psychiatry**	5.0
PHA 695	Drug Information**	5.0
PHA 696	Elective	5.0
PHA 699	Internal Medicine II	5.0
* Any 2 of the 3 ** Any 1 of the 5		Total 43.0 over 3 semesters

2014 Doctor of Pharmacy Curriculum

First Professional Year		Fall Semester	Spring Semester
Course Number	Course Title	Credit Hour	Credit Hour
PHA 361	Pharmaceutics/Biopharmaceutics I	4.0	
PHA 361L	Pharmaceutics Laboratory	1.0	
PHA 321	Anatomy and Physiology	4.0	
PHA 321L	Anatomy and Physiology Laboratory	1.0	
PHA 301	Pharmaceutical Care I	3.0	
PHA 311	Physiological Chemistry	3.0	
PHA 204	Profession of Pharmacy IV	2.0	
		Total 18.0	
PHA 362	Pharmaceutics/Biopharmaceutics II		4.0
PHA 362L	Pharmaceutics Laboratory		1.0
PHA 314	Medicinal Chemistry I		4.0
PHA 332	Biostatistics/Literature Evaluation		3.0
PHA 302	Pharmaceutical Care II		3.0
			Total 15.0
Summer Session			
PHA 370	Community IPPE	1 credit hr. (3 weeks, 120 hrs)	
Second Professional Year			
PHA 463	Pharmacokinetics	5.0	
PHA 413	Medicinal Chemistry II	4.0	
PHA 423	Microbiology/Immunology	4.0	
PHA 431	Health Care Administration I	2.0	
PHA 401	Pharmaceutical Care III	3.0	
		Total 18.0	
PHA 432	Health Care Administration II		3.0

PHA 402	Pharmaceutical Care IV		3.0
PHA 490	Introduction to Clerkships		2.0
PHA 480	Drug and Disease Management I		3.0
PHA 482	Drug and Disease Management II		3.0
PHA 484	Drug and Disease Management III		4.0
			Total 18.0
Summer Session			
PHA 470	Institutional IPPE	1 credit hr. (3 weeks, 120 hrs)	

Third Professional Year		Fall Semester	Spring Semester
Course Number	Course Title	Credit Hour	Credit Hour
PHA 501	Pharmaceutical Care V	3.0	
PHA 573	Patient Assessment	1.0	
PHA 573L	Patient Assessment Lab	1.0	
PHA 581	Drug and Disease Management IV	3.0	
PHA 583	Drug and Disease Management V	3.0	
PHA 585	Drug and Disease Management VI	4.0	
PHA 531	Introduction to Research Methods	1.0	
	Elective	2.0	
		Total 18.0	
PHA 532	Pharmacy Law and Ethics		2.0
PHA 574	Pharmacy Practice Laboratory		4.0
PHA 586	Drug and Disease Management VII		4.0
PHA 588	Drug and Disease Management VIII		4.0
	Elective		2.0
	Elective		2.0
			Total 18.0

Summer Session		
PHA 570	Elective IPPE	1 credit hr. (3 weeks, 120 hrs)
Fourth Professional Year		Three-Semester Period: Summer, Fall & Spring
PHA 650	Seminar I	1.0
PHA 651	Seminar II	1.0
PHA 652	Seminar III	1.0
PHA 670	Community Pharmacy Externship*	4.0
PHA 671	Institutional Pharmacy Externship*	4.0
PHA 672	Community/Institutional Pharmacy Externship*	4.0
PHA 683	Geriatrics**	4.0
PHA 685	Administration/Management**	4.0
PHA 690	Internal Medicine I	4.0
PHA 691	Ambulatory Care I	4.0
PHA 692	Ambulatory Care II	4.0
PHA 693	Pediatrics**	4.0
PHA 694	Psychiatry**	4.0
PHA 695	Drug Information**	4.0
PHA 696	Elective	4.0
PHA 699	Internal Medicine II	4.0
* Any 2 of the 3 ** Any 1 of the 5		Total 35.0 over 3 semesters

2015 Doctor of Pharmacy Curriculum

First Professional Year		Fall Semester	Spring Semester
Course Number	Course Title	Credit Hour	Credit Hour
PHA 361	Pharmaceutics/Biopharmaceutics I	4.0	
PHA 361L	Pharmaceutics Laboratory	1.0	
PHA 321	Anatomy and Physiology	4.0	
PHA 321L	Anatomy and Physiology Laboratory	1.0	
PHA 301	Pharmaceutical Care I	3.0	
PHA 311	Physiological Chemistry	3.0	
PHA 204	Profession of Pharmacy IV	2.0	
		Total 18.0	
PHA 362	Pharmaceutics/Biopharmaceutics II		4.0
PHA 362L	Pharmaceutics Laboratory		1.0
PHA 314	Medicinal Chemistry I		4.0
PHA 332	Biostatistics/Literature Evaluation		3.0
PHA 302	Pharmaceutical Care II		3.0
			Total 15.0
Summer Session			
PHA 370	Community IPPE	1 credit hr. (3 weeks, 120 hrs)	
Second Professional Year			
PHA 463	Pharmacokinetics	5.0	
PHA 413	Medicinal Chemistry II	4.0	
PHA 423	Microbiology/Immunology	4.0	
PHA 431	Health Care Administration I	2.0	
PHA 401	Pharmaceutical Care III	3.0	
		Total 18.0	
PHA 432	Health Care Administration II		3.0

PHA 402	Pharmaceutical Care IV		3.0
PHA 490	Introduction to Clerkships		2.0
PHA 480	Drug and Disease Management I		3.0
PHA 482	Drug and Disease Management II		3.0
PHA 484	Drug and Disease Management III		4.0
			Total 18.0
Summer Session			
PHA 470	Institutional IPPE	1 credit hr. (3 weeks, 120 hrs)	

Third Professional Year		Fall Semester	Spring Semester
Course Number	Course Title	Credit Hour	Credit Hour
PHA 501	Pharmaceutical Care V	3.0	
PHA 573	Patient Assessment	1.0	
PHA 573L	Patient Assessment Lab	1.0	
PHA 581	Drug and Disease Management IV	3.0	
PHA 583	Drug and Disease Management V	3.0	
PHA 585	Drug and Disease Management VI	4.0	
PHA 531	Introduction to Research Methods	1.0	
	Elective	2.0	
		Total 18.0	
PHA 532	Pharmacy Law and Ethics		2.0
PHA 574	Pharmacy Practice Laboratory		4.0
PHA 586	Drug and Disease Management VII		4.0
PHA 588	Drug and Disease Management VIII		4.0
	Elective		2.0
	Elective		2.0
			Total 18.0

Summer Session		
PHA 570	Elective IPPE	1 credit hr. (3 weeks, 120 hrs)
Fourth Professional Year		Three-Semester Period: Summer, Fall & Spring
PHA 650	Seminar I	1.0
PHA 651	Seminar II	1.0
PHA 652	Seminar III	1.0
PHA 670	Community Pharmacy Externship*	4.0
PHA 671	Institutional Pharmacy Externship*	4.0
PHA 672	Community/Institutional Pharmacy Externship*	4.0
PHA 683	Geriatrics**	4.0
PHA 685	Administration/Management**	4.0
PHA 690	Internal Medicine I	4.0
PHA 691	Ambulatory Care I	4.0
PHA 692	Ambulatory Care II	4.0
PHA 693	Pediatrics**	4.0
PHA 694	Psychiatry**	4.0
PHA 695	Drug Information**	4.0
PHA 696	Elective	4.0
PHA 699	Internal Medicine II	4.0
* Any 2 of the 3 ** Any 1 of the 5		Total 35.0 over 3 semesters

2016 Doctor of Pharmacy Curriculum

First Professional Year		Fall Semester	Spring Semester
Course Number	Course Title	Credit Hour	Credit Hour
PHA 361	Pharmaceutics/Biopharmaceutics I	4.0	
PHA 361L	Pharmaceutics Laboratory	1.0	
PHA 321	Anatomy and Physiology	4.0	
PHA 321L	Anatomy and Physiology Laboratory	1.0	
PHA 301	Pharmaceutical Care I	3.0	
PHA 311	Physiological Chemistry	3.0	
PHA 320	Pharmaceutical Calculations I	2.0	
		Total 18.0	
PHA 362	Pharmaceutics/Biopharmaceutics II		4.0
PHA 362L	Pharmaceutics Laboratory		1.0
PHA 314	Medicinal Chemistry I		4.0
PHA 332	Biostatistics/Literature Evaluation		3.0
PHA 302	Pharmaceutical Care II		3.0
PHA 330	Introduction to Pharmacy Practice		2.0
			Total 17.0
Summer Session			
PHA 370	Community IPPE	1 credit hr. (3 weeks, 120 hrs)	
Second Professional Year			
PHA 463	Pharmacokinetics	5.0	
PHA 413	Medicinal Chemistry II	4.0	
PHA 423	Microbiology/Immunology	4.0	
PHA 431	Health Care Administration I	2.0	
PHA 401	Pharmaceutical Care III	3.0	
		Total 18.0	
PHA 432	Health Care Administration II		3.0
PHA 402	Pharmaceutical Care IV		3.0
PHA 480	Drug and Disease Management I		3.0

PHA 482	Drug and Disease Management II		3.0
PHA 484	Drug and Disease Management III		4.0
			Total 16.0
Summer Session			
PHA 470	Institutional IPPE	1 credit hr. (3 weeks, 120 hrs)	

Third Professional Year		Fall Semester	Spring Semester
Course Number	Course Title	Credit Hour	Credit Hour
PHA 501	Pharmaceutical Care V	3.0	
PHA 573	Patient Assessment	1.0	
PHA 573L	Patient Assessment Lab	1.0	
PHA 581	Drug and Disease Management IV	3.0	
PHA 583	Drug and Disease Management V	3.0	
PHA 585	Drug and Disease Management VI	4.0	
PHA 531	Introduction to Research Methods	1.0	
	Elective	2.0	
		Total 18.0	
PHA 532	Pharmacy Law and Ethics		2.0
PHA 574	Pharmacy Practice Laboratory		4.0
PHA 586	Drug and Disease Management VII		4.0
PHA 588	Drug and Disease Management VIII		4.0
	Elective		2.0
	Elective		2.0
			Total 18.0
Summer Session			
PHA 570	Elective IPPE	1 credit hr. (3 weeks, 120 hrs)	
Fourth Professional Year		Three-Semester Period: Summer, Fall & Spring	
PHA 650	Seminar I	1.0	
PHA 651	Seminar II	1.0	

PHA 652	Seminar III	1.0
PHA 670	Community APPE *	4.0
PHA 671	Institutional APPE *	4.0
PHA 672	Community/Institutional APPE *	4.0
PHA 683	Geriatrics APPE **	4.0
PHA 685	Administration/Management APPE **	4.0
PHA 690	General Internal Medicine APPE	4.0
PHA 691	Ambulatory Care APPE	4.0
PHA 693	Pediatrics APPE **	4.0
PHA 694	Psychiatry APPE **	4.0
PHA 695	Drug Information APPE **	4.0
PHA 696	Special Interests APPE **	4.0
PHA 699	Advanced Internal Medicine APPE**	4.0
	Elective – Managed Care APPE **	4.0
	Elective – Academia APPE **	4.0
	Elective – Research I APPE **	4.0
	Elective – Research II APPE **	4.0
	Elective – Nuclear Pharmacy APPE **	4.0
	Elective – Compounding APPE **	4.0
* Any 2 of 3 ** Any 4		Total 35.0 over 3 semesters

2017 Doctor of Pharmacy Curriculum

First Professional Year		Fall Semester	Spring Semester
Course Number	Course Title	Credit Hour	Credit Hour
PHA 361	Pharmaceutics/Biopharmaceutics I	4.0	
PHA 361L	Pharmaceutics Laboratory	1.0	
PHA 321	Anatomy and Physiology	4.0	
PHA 321L	Anatomy and Physiology Laboratory	1.0	
PHA 301	Pharmaceutical Care I	3.0	
PHA 311	Physiological Chemistry	3.0	
PHA 320	Pharmaceutical Calculations I	2.0	
		Total 18.0	
PHA 362	Pharmaceutics/Biopharmaceutics II		4.0
PHA 362L	Pharmaceutics Laboratory		1.0
PHA 314	Medicinal Chemistry I		4.0
PHA 332	Biostatistics/Literature Evaluation		3.0
PHA 302	Pharmaceutical Care II		3.0
PHA 330	Introduction to Pharmacy Practice		2.0
			Total 17.0
Summer Session			
PHA 370	Community IPPE	1 credit hr. (3 weeks, 120 hrs)	
Second Professional Year			
PHA 463	Pharmacokinetics	5.0	
PHA 413	Medicinal Chemistry II	4.0	
PHA 423	Microbiology/Immunology	4.0	
PHA 431	Health Care Administration I	2.0	
PHA 401	Pharmaceutical Care III	3.0	
		Total 18.0	
PHA 432	Health Care Administration II		3.0
PHA 402	Pharmaceutical Care IV		3.0
PHA 480	Drug and Disease Management I		3.0

PHA 482	Drug and Disease Management II		3.0
PHA 484	Drug and Disease Management III		4.0
			Total 16.0
Summer Session			
PHA 470	Institutional IPPE	1 credit hr. (3 weeks, 120 hrs)	

Third Professional Year		Fall Semester	Spring Semester
Course Number	Course Title	Credit Hour	Credit Hour
PHA 501	Pharmaceutical Care V	3.0	
PHA 573	Patient Assessment	1.0	
PHA 573L	Patient Assessment Lab	1.0	
PHA 581	Drug and Disease Management IV	3.0	
PHA 583	Drug and Disease Management V	3.0	
PHA 585	Drug and Disease Management VI	4.0	
PHA 531	Introduction to Research Methods	1.0	
	Elective	2.0	
		Total 18.0	
PHA 532	Pharmacy Law and Ethics		2.0
PHA 574	Pharmacy Practice Laboratory		4.0
PHA 586	Drug and Disease Management VII		4.0
PHA 588	Drug and Disease Management VIII		4.0
	Elective		2.0
	Elective		2.0
			Total 18.0
Summer Session			
PHA 570	Elective IPPE	1 credit hr. (3 weeks, 120 hrs)	
Fourth Professional Year		Three-Semester Period: Summer, Fall & Spring	
PHA 650	Seminar I	1.0	
PHA 651	Seminar II	1.0	

PHA 652	Seminar III	1.0
PHA 670	Community APPE	4.0
PHA 671	Institutional APPE	4.0
PHA 673	Nuclear Pharmacy APPE **	4.0
PHA 674	Compounding APPE **	4.0
PHA 675	Academic Pharmacy APPE **	4.0
PHA 676	Managed Care APPE **	4.0
PHA 680	Research I APPE **	4.0
PHA 681	Research II APPE **	4.0
PHA 683	Geriatrics APPE **	4.0
PHA 685	Administration/Management APPE **	4.0
PHA 690	Internal Medicine APPE	4.0
PHA 691	Ambulatory Care APPE	4.0
PHA 693	Pediatrics APPE **	4.0
PHA 694	Psychiatry APPE **	4.0
PHA 695	Drug Information APPE **	4.0
PHA 684, 696, 697, 698	Special Interests APPE **	4.0
PHA 699	Advanced Internal Medicine APPE**	4.0
** Any 4		Total 35.0 over 3 semesters

Freshman			
Fall Semester	Credits	Spring Semester	Credits
English (ENG 101)	3	English (ENG 102)	3
Precalculus (MAT 117) ¹	3	Health (HEA 200) OR PED 105	2
General Biology (BIO 105 or 106)	4	General Biology (BIO 105 or 106)	4
University (UNV 101)	1	Calculus (MAT 130) ¹	3
General Chemistry I (CHE 201)	4	General Chemistry II (CHE 202)	4
Total:	15	Total:	16
Sophomore Year			
Fall Semester	Credits	Spring Semester	Credits
Organic Chemistry I (CHE 301)	4	Organic Chemistry II (CHE 302)	4

Microbiology (BIO 304)	4	History (HIS 106)	3
Humanities I (HUM 201)	3	Humanities II (HUM 202) or any Humanities approved elective ²	3
Social Science Elective (SOC 205 OR PSY 203)	3	Macro or Microeconomics (ECO 201 or 202)	3
Speech (COM 103)	3	Principles of Heredity (BIO 305)	3
Total:	17	Total:	16
Junior Year			
Fall Semester	Credits	Spring Semester	Credits
Human Anatomy (BIO 302) w/lab	4	Human Physiology (BIO 336) w/lab	3
Medical Terminology (NUR 221)	2	Medical Microbiology (BIO 544)	3
Scientific Writing for Health Professionals (NUR 320)	3	Cultural Assessment for Health Professionals (NUR 224)	3
Physics I (PHY 201)	4	Math/Science Elective ³	5
Physics I Lab (PHY 215)	1		
Statistics (MAT 205)	3		
Total:	17	Total:	14

2018 Doctor of Pharmacy Curriculum

First Professional Year		Fall Semester	Spring Semester
Course Number	Course Title	Credit Hour	Credit Hour
PHA 361	Pharmaceutics/Biopharmaceutics I	4.0	
PHA 361L	Pharmaceutics Laboratory	1.0	
PHA 321	Anatomy and Physiology	4.0	
PHA 321L	Anatomy and Physiology Laboratory	1.0	
PHA 301	Pharmaceutical Care I	3.0	
PHA 311	Physiological Chemistry	3.0	
PHA 320	Pharmaceutical Calculations I	2.0	
		Total 18.0	
PHA 362	Pharmaceutics/Biopharmaceutics II		4.0
PHA 362L	Pharmaceutics Laboratory		1.0
PHA 314	Medicinal Chemistry I		4.0
PHA 332	Biostatistics/Literature Evaluation		3.0
PHA 302	Pharmaceutical Care II		3.0
PHA 330	Introduction to Pharmacy Practice		2.0
			Total 17.0
Summer Session			
PHA 370	Community IPPE	1 credit hr. (3 weeks, 120 hrs)	
Second Professional Year			
PHA 463	Pharmacokinetics	5.0	
PHA 413	Medicinal Chemistry II	4.0	
PHA 423	Microbiology/Immunology	4.0	
PHA 431	Health Care Administration I	2.0	
PHA 401	Pharmaceutical Care III	3.0	
		Total 18.0	
PHA 432	Health Care Administration II		3.0
PHA 402	Pharmaceutical Care IV		3.0

PHA 480	Drug and Disease Management I		3.0
PHA 482	Drug and Disease Management II		3.0
PHA 484	Drug and Disease Management III		4.0
			Total 16.0
Summer Session			
PHA 470	Institutional IPPE	1 credit hr. (3 weeks, 120 hrs)	

Third Professional Year		Fall Semester	Spring Semester
Course Number	Course Title	Credit Hour	Credit Hour
PHA 501	Pharmaceutical Care V	3.0	
PHA 573	Patient Assessment	1.0	
PHA 573L	Patient Assessment Lab	1.0	
PHA 581	Drug and Disease Management IV	3.0	
PHA 583	Drug and Disease Management V	3.0	
PHA 585	Drug and Disease Management VI	4.0	
PHA 531	Introduction to Research Methods	1.0	
PHA 570	Elective IPPE* (30 hours)	1.0	
	Elective	2.0	
		Total 18.0 OR 19.0	
PHA 532	Pharmacy Law and Ethics		2.0
PHA 574	Pharmacy Practice Laboratory		4.0
PHA 586	Drug and Disease Management VII		4.0
PHA 588	Drug and Disease Management VIII		4.0
PHA 570	Elective IPPE* (30 hours)		1.0
	Elective		2.0
	Elective		2.0
			Total 18.0 or 19.0
<p><u>Note:</u> Students must register for PHA 570 Elective IPPE* for only one semester i.e. either the Fall OR Spring of the Third Professional Year. Students must pay additional tuition for the credit hour.</p>			

Fourth Professional Year		Three-Semester Period: Summer, Fall & Spring
PHA 650	Seminar I	1.0
PHA 651	Seminar II	1.0
PHA 652	Seminar III	1.0
PHA 670	Community APPE	4.0
PHA 671	Institutional APPE	4.0
PHA 673	Nuclear Pharmacy APPE **	4.0
PHA 674	Compounding APPE **	4.0
PHA 675	Academic Pharmacy APPE **	4.0
PHA 676	Managed Care APPE **	4.0
PHA 680	Research I APPE **	4.0
PHA 681	Research II APPE **	4.0
PHA 683	Geriatrics APPE **	4.0
PHA 685	Administration/Management APPE **	4.0
PHA 690	Internal Medicine APPE	4.0
PHA 691	Ambulatory Care APPE	4.0
PHA 693	Pediatrics APPE **	4.0
PHA 694	Psychiatry APPE **	4.0
PHA 695	Drug Information APPE **	4.0
PHA 684, 696, 697, 698	Special Interests APPE **	4.0
PHA 699	Advanced Internal Medicine APPE**	4.0
** Any 4		Total 35.0 over 3 semesters