

ALABAMA COMMISSION ON HIGHER EDUCATION
INSTRUCTION
Form B: Description of Curriculum Changes

1. Institution:

Auburn University, Harrison School of Pharmacy

2. CIP Code, Program Title, and Degree Nomenclature of the existing program:

51.2001 PHARMACY Pharm.D.

3. Describe the changes to the existing curriculum. How many courses and credit hours will be affected? What percentage of the major is affected? Please attach a copy of the current curriculum with notations indicating the proposed changes.

While the goal, major topics, and key content areas of the Auburn University, Harrison School of Pharmacy, Doctor of Pharmacy program will remain essentially the same, there will be two key changes to the existing Pharm.D. curriculum. First, the organization and structure of the courses will be altered, especially during the 1st three years of the curriculum. Every course in the existing curriculum will be affected in some way (100%). There are currently 42 courses in the curriculum. Of those, 26 (62%) will be deleted and replaced by new courses. The remaining 16 courses (38%) will remain the same, but will have changes in their Course Prefix, Course Number, or Course Name. Appendix A shows the current Pharm.D. curriculum. Appendix B shows the revised Pharm.D. curriculum. Appendix C shows the current and revised curriculum combined.

The second key change will be that the overall number of credit hours to complete the Pharm.D. degree will increase from 141 to 158. This represents an increase of 12% in the total credit hours for the program. The credit hour increase is needed because new curricular and co-curricular requirements specified by the Accreditation Council for Pharmacy Education (ACPE) in their 2016 Standards would be extremely difficult or impossible to meet with the current number of credit hours. Many other Pharmacy Schools have already increased their total credit hours in anticipation of the new requirements. For example, the University of Mississippi Pharm.D. requires 114 credit hours in the first three years of the program, while Auburn's would be 115 in the revised curriculum. Mississippi does not list the hours for the fourth year of their program, but assuming it is 40 hours, their total credit hour requirement would be 154. The University of Texas Pharm.D. program is currently 156 semester hours. The University of Iowa's new curriculum, which began in 2015, is now approximately 154 semester hours.

4. What is the rationale for the alteration?

The Auburn University, Harrison School of Pharmacy, Doctor of Pharmacy program is being revised in order to better align with the new 2016 Standards by the Accreditation Council for Pharmacy Education (ACPE) and to be more in line with the School's *Practice Ready Vision* that was developed by the faculty. The 2016 ACPE Standards place an emphasis on producing Doctor of Pharmacy graduates who have a much broader and more holistic set of abilities than past graduates. In addition, ACPE is requiring that Doctor of Pharmacy students have much greater exposure to inter-professional education and co-curricular learning activities.

The School's *Practice Ready Vision* was developed and approved by the Harrison School of Pharmacy faculty in 2014. The *Practice Ready Vision* includes many areas that are part of the current Pharm.D. curriculum and identifies those that should be given greater emphasis in order to produce outstanding *Practice Ready* pharmacists to meet future needs.

A detailed programmatic review that considered the 2016 ACPE Standards and the *Practice Ready Vision* determined that the existing Pharm.D. curricular model was no longer sufficient to meet the needs of either the students or the profession. There were two primary areas that were identified for change. First, it was determined that the prevailing pedagogical philosophy of the current curriculum, predominately consisting of lecture-based classes, individuals working in isolation, and multiple-choice examinations, especially during the first two years of the curriculum, was not compatible with ACPE's call for greater emphasis on inter-professional education and co-curricular experiences. The revised Pharm.D. curriculum will place a much greater emphasis on active learning, team-based activities, and authentic assessments.

Second, because most of the courses in the current Pharm.D. curriculum are taught as separate, content specific courses with little or no integration of the basic, administrative, and clinical sciences with pharmacy practice, it was determined that we needed to develop a way for content from various areas to be integrated from the student's first days in the program. As a result, discipline specific courses will be eliminated from the revised curriculum in favor of "Integrated Learning Experiences" that will enable students to apply knowledge and skills from basic, administrative, and clinical sciences to direct patient care. Each Integrated Learning Experience will be taught in the context of common diseases encountered by Pharmacists. This should foster the development of more patient-centered practitioners, enhance critical thinking and long-term retention, and facilitate transfer to diverse practice settings.

In summary, the job of a Pharmacist has been changing and expanding for many years. The pace of change and breadth of expanded responsibilities will increase at an even more rapid rate in the next decade and beyond. Pharmacists in the future will have to master a much broader skillset, will have to work much more cooperatively with other health care professionals, and will have to understand the Pharmacist Patient Care Process and overall health care system in a much deeper and more profound manner in order to meet the changing demands of the profession and respond to societal needs. As a result, traditional educational models and existing Pharmacy curricula are no longer sufficient. The revised Doctor of Pharmacy curriculum represents the Harrison School of Pharmacy's bold, reflective, and innovative attempt to respond to the changing role of the Pharmacist, meet new accreditation requirements, and to continue to produce outstanding *Practice Ready* pharmacists for our state, region, nation, and beyond.

5. Will the curriculum change require additional resources? If so, provide an estimate of funds needed for the change, as well as the source(s) of funds to support the alteration.

The curriculum change will require no additional resources.

Signature of Institution's Authorized Representative

Date

Title

Institution

APPENDIX A CURRENT PHARM.D. CURRICULUM

First Professional Year			
PYDI 9000/9006 – Drugs and Diseases I	5	PYDI 9100/9106 – Drugs and Diseases II	5
PYDI 9010/9016 – Patient Centered Skills	2	PYDI 9140/9146 – Principles of Pharmacokinetics	3
PYDI 9020 – Contemp Aspects of Pharm Prac I	2	PYDI 9110/9116 – Pharmacy Law and Ethics	2
PYDI 9090 – Pharmacy Practice Experience I	2	PYDI 9120 – Contemp Aspects of Pharm Prac II	2
PYDI 9080 – Foundations of Pharmacy	1	PYDI 9190 – Pharmacy Practice Experience II	2
		PYDI 9130/9136 – Drug Literature	2
Total Hours	12	Total Hours	16
Second Professional Year			
PYDI 9200/9206 – Drugs and Diseases III	8	PYDI 9300/9306 – Drugs and Diseases IV	8
PYDI 9210/9216 – Phar Prac Dev, Manag & Eval I	3	PYDI 9310/9316 – Phar Prac Dev, Manag & Eval II	3
PYDI 9220 – Contemp Aspects of Pharm Prac III	2	PYDI 9320 – Contemp Aspects of Pharm Prac IV	2
PYDI 9230/9236 – Drug Products I	3	PYDI 9330/9336 – Drug Products II	3
PYDI 9290 – Pharmacy Practice Experience III	2	PYDI 9390 – Pharmacy Practice Experience IV	2
Total Hours	18	Total Hours	18
Third Professional Year			
PYDI 9420 – Contemp Aspects of Pharm Prac V	2	PYDI 9520 – Contemp Aspects of Pharm Prac VI	2
PYDI 9470 – Integrated Pharmacotherapy I	6	PYDI 9570 – Integrated Pharmacotherapy III	6
PYDI 9480 – Integrated Pharmacotherapy II	6	PYDI 9580 – Integrated Pharmacotherapy IV	6
PYDI 9490 – Pharmacy Practice Experience V	2	PYDI 9590 – Pharmacy Practice Experience VI	2
Professional Electives	2	Professional Electives	2
Total Hours	18	Total Hours	18
Fourth Professional Year (May through April)			
PYDI 9610 – Community Pharmaceutical Care	5		
PYDI 9620 – Medicine I	5		
PYDI 9640 – Primary/Ambulatory Care I	5		
PYDI 9650 – Primary/Ambulatory Care II	5		
PYDI 9660 – Health System Practice	5		
PYDI 9670 – Practice Elective I	5		

PYDI 9680 – Practice Elective II`	5
PYDI 9600 – Drug Information - Selective; OR PYDI 9630 – Medicine II – Selective	5
PYDI 9690 – Professional Seminar	1
PYDI 9700 – Adv Prac Exper Professional Communications	0
Total Hours (4th Year)	41
Total Hours for Pharm.D Program	141

**APPENDIX B
REVISED PHARM.D. CURRICULUM**

First Professional Year					
PYPD 9200 / 9206	Integrated Learning Experience I	6	PYPD 9220 / 9226	Integrated Learning Experience III	6
PYPD 9210 / 9216	Integrated Learning Experience II	6	PYPD 9230 / 9236	Integrated Learning Experience IV	6
PPYD 9320 / 9326	Longitudinal Experience I	3	PPYD 9330 / 9336	Longitudinal Experience II	3
PYPD 9400 / 9406	Workshop I	1	PYPD 9410 / 9416	Workshop II	1
PYPD 9100	Pharmacy Practice Experience I	2	PYPD 9110	Pharmacy Practice Experience II	2
PYPD 9000	Orientation	1			
Total Hours		19	Total Hours		18

Second Professional Year					
PYPD 9240 / 9246	Integrated Learning Experience V	6	PYPD 9260 / 9266	Integrated Learning Experience VII	6
PYPD 9250 / 9256	Integrated Learning Experience VI	6	PYPD 9270 / 9276	Integrated Learning Experience VIII	6
PPYD 9340 / 9346	Longitudinal Experience III	3	PPYD 9350 / 9356	Longitudinal Experience IV	3
PYPD 9420 / 9426	Workshop III	1	PYPD 9430 / 9436	Workshop IV	1
PYPD 9120	Pharmacy Practice Experience III	2	PYPD 9130	Pharmacy Practice Experience IV	2
	Elective *	1	-	Elective *	1
	Elective *	1	-	Elective *	1
Total Hours		18-20	Total Hours		18-20

Third Professional Year					
PYPD 9280 / 9286	Integrated Learning Experience IX	6	PYPD 9300 / 9306	Integrated Learning Experience XI	6
PYPD 9290 / 9296	Integrated Learning Experience X	6	PYPD 9310 / 9316	Integrated Learning Experience XII	6
PPYD 9360 / 9366	Longitudinal Experience V	3	PPYD 9370 / 9376	Longitudinal Experience VI	3
PYPD 9440 / 9446	Workshop V	1	PYPD 9450 / 9456	Workshop VI	1
PYPD 9140	Pharmacy Practice Experience V	2	PYPD 9150	Pharmacy Practice Experience VI	2
-	Elective *	1	-	Elective *	1
-	Elective *	1	-	Elective *	1
Total Hours		18-20	Total Hours		18-20

* Students will complete 6 hours of electives

Fourth Professional Year (May through April)		
PYPD 9610	Community Pharmaceutical Care	5
PYPD 9620	Medicine I	5
PYPD 9640	Primary/Ambulatory Care I	5
PYPD 9650	Primary/Ambulatory Care II	5
PYPD 9660	Health System Practice	5
PYPD 9670	Practice Elective I	5
PYPD 9680	Practice Elective II	5
PYPD 9690	Drug Information - Selective OR	5
PYPD 9630	Medicine II - Selective	
PYPD 9700	Summative Experience	3
Total Hours (4th Year)		43
Total Hours for Pharm.D Program		158

APPENDIX C
COMBINED CURRENT & REVISED PHARM.D. CURRICULA
SHOWING CHANGES EACH SEMESTER

First Professional Year					
PYPD 9200 / 9206	Integrated Learning Experience I	6	PYPD 9220 / 9226	Integrated Learning Experience III	6
PYPD 9210 / 9216	Integrated Learning Experience II	6	PYPD 9230 / 9236	Integrated Learning Experience IV	6
PPYD 9320 / 9326	Longitudinal Experience I	3	PPYD 9330 / 9336	Longitudinal Experience II	3
PYPD 9400 / 9406	Workshop I	1	PYPD 9410 / 9416	Workshop II	1
PYPD 9100 (was PYDI 9090)	Pharmacy Practice Experience I	2	PYPD 9110 (was PYDI 9190)	Pharmacy Practice Experience II	2
PYPD 9000 (was PYDI 9080)	Orientation (was Foundations of Pharmacy)	1	PYDI 9100/9106	Drugs and Diseases II	5
PYDI 9000/9006	Drugs and Diseases I	5	PYDI 9140/9146	Principles of Pharmacokinetics	3
PYDI 9010/9016	Patient-Centered Skills	2	PYDI 9110/9116	Pharmacy Law and Ethics	2
PYDI 9020	Contemp Aspects of Pharm Prac I	2	PYDI 9120	Contemp Aspects of Pharm Prac II	2
			PYDI 9130/9136	Drug Literature	2
Total Hours		12 19	Total Hours		16 18
Second Professional Year					
PYPD 9240 / 9246	Integrated Learning Experience V	6	PYPD 9260 / 9266	Integrated Learning Experience VII	6
PYPD 9250 / 9256	Integrated Learning Experience VI	6	PYPD 9270 / 9276	Integrated Learning Experience VIII	6
PPYD 9340 / 9346	Longitudinal Experience III	3	PPYD 9350 / 9356	Longitudinal Experience IV	3
PYPD 9420 / 9426	Workshop III	1	PYPD 9430 / 9436	Workshop IV	1
PYPD 9120 (was PYDI 9290)	Pharmacy Practice Experience III	2	PYPD 9130 (was PYDI 9390)	Pharmacy Practice Experience IV	2
	Elective *	1	-	Elective *	1
	Elective *	1	-	Elective *	1
PYDI 9200/9206	Drugs and Diseases III	8	PYDI 9300/9306	Drugs and Diseases IV	8
PYDI 9210/9216	Phar Prac Dev, Manag & Eval I	3	PYDI 9310/9316	Phar Prac Dev, Manag & Eval II	3
PYDI 9220	Contemp Aspects of Pharm Prac III	2	PYDI 9320	Contemp Aspects of Pharm Prac IV	2
PYDI 9230/9236	Drug Products I	3	PYDI 9330/9336	Drug Products II	3
Total Hours		18 18-20	Total Hours		18 18-20

Third Professional Year					
PYPD 9280 / 9286	Integrated Learning Experience IX	6	PYPD 9300 / 9306	Integrated Learning Experience XI	6
PYPD 9290 / 9296	Integrated Learning Experience X	6	PYPD 9310 / 9316	Integrated Learning Experience XII	6
PYPD 9360 / 9366	Longitudinal Experience V	3	PYPD 9370 / 9376	Longitudinal Experience VI	3
PYPD 9440 / 9446	Workshop V	1	PYPD 9450 / 9456	Workshop VI	1
PYPD 9140 (was PYDI 9490)	Pharmacy Practice Experience V	2	PYPD 9150 (was PYDI 9590)	Pharmacy Practice Experience VI	2
-	Elective *	1	-	Elective *	1
-	Elective *	1	-	Elective *	1
PYDI 9420	Contemp Aspects of Pharm Prac V	2	PYDI 9520	Contemp Aspects of Pharm Prac VI	2
PYDI 9470	Integrated Pharmacotherapy I	6	PYDI 9570	Integrated Pharmacotherapy III	6
PYDI 9480	Integrated Pharmacotherapy II	6	PYDI 9580	Integrated Pharmacotherapy IV	6
	Professional Electives	2		Professional Electives	2
Total Hours		18 18-20	Total Hours		18 18-20

* Students will complete 6 hours of electives

Fourth Professional Year (May through April)		
PYPD 9610 (was PYDI 9610)	Community Pharmaceutical Care	5
PYPD 9620 (was PYDI 9620)	Medicine I	5
PYPD 9640 (was PYDI 9640)	Primary/Ambulatory Care I	5
PYPD 9650 (was PYDI 9650)	Primary/Ambulatory Care II	5
PYPD 9660 (was PYDI 9660)	Health System Practice	5
PYPD 9670 (was PYDI 9670)	Practice Elective I	5
PYPD 9680 (was PYDI 9680)	Practice Elective II	5
PYPD 9690 (was PYDI 9600)	Drug Information - Selective OR	5
PYPD 9630 (was PYDI 9630)	Medicine II - Selective	
PYPD 9700	Summative Experience	3
PYDI 9690	Professional Seminar	4
PYDI 9700	Adv Prac Exper Professional Communications	0
Total Hours (4th Year)		41 43
Total Hours for Pharm.D Program		144 158