

**DEGREE/PROGRAM CHANGE  
FORM C  
Form Number: C1859**

Fields marked with \* are required

**Name of Initiator:** Donald Godwin    **Email:** [dgodwin@unm.edu](mailto:dgodwin@unm.edu)    **Phone Number:** 505 272-0907    **Date:** 06-30-2016

Associated Forms exist?  Initiator's Title   
Faculty Contact  Administrative Contact   
Department  Admin Email   
Branch Admin Phone

**Proposed effective term**

Semester  Year

**Course Information**

Select Appropriate Program   
Name of New or Existing Program   
Select Category  Degree Type  
Select Action

Exact Title and Requirements as they should appear in the catalog. If there is a change, upload current and proposed requirements.

See current catalog for format within the respective college (upload a doc/pdf file)

[Revised PharmD curriculum catalog title and requirements.pdf](#)

☐ Does this change affect other departmental program/branch campuses? If yes, indicate below.

Reason(s) for Request (enter text below or upload a doc/pdf file)

[8 week block schedule for revised PharmD curriculum.pdf](#)

[Revised PharmD curriculum reasons for request.pdf](#)

Upload a document that includes justification for the program, impact on long-range planning, detailed budget analysis and faculty workload implications.(upload a doc/pdf file)

[Revised PharmD curriculum justification etc.pdf](#)

☐ Are you proposing a new undergraduate degree or new undergraduate certificate? If yes, upload the following documents.

Upload a two-page Executive Summary authorized by Associate Provost. (upload a doc/pdf file)

Upload memo from Associate Provost authorizing go-ahead to full proposal. (upload a doc/pdf file)

First Professional Year					
Current P1 Fall Semester			Proposed revised P1 Fall Semester		
PHRM 701	Pharmaceutics I	3	PHRM 801	Applied Biochemistry	3
PHRM 703L	Pharmaceutical Care Lab I	3	PHRM 802	Physical Pharmacy and Biopharmaceutics	3
PHRM 705	Pathophysiology	4	PHRM 803	Aspects of Patient Care I	3
PHRM 706	Foundations of Drug Action	3	PHRM 804	Public Health	2
PHRM 707	Pharmacy and Health Care Delivery	3	PHRM 805	Pathophysiology and Immunology	3
PHRM 709	Introduction to Pharmacy Practice	1	PHRM 807	Introduction to Pharmacy Practice and Communication	2
PHRM 713	Pharmaceutical Calculations	1	PHRM 809	Pharmacy and Health Care Delivery	2
	<b>Total</b>	<b>18</b>		<b>Total</b>	<b>18</b>

First Professional Year					
Current P1 Spring Semester			Proposed revised P1 Spring Semester		
PHRM 702	Pharmaceutics II	3	PHRM 810	Fundamentals of Pharmacokinetics and Dosage Forms	3
PHRM 704L	Pharmaceutical Care Lab II	3	PHRM 811	Introduction to Pharmacology and Medicinal Chemistry	4
PHRM 710	Mechanisms of Drug Action I	5	PHRM 813	Aspects of Patient Care II	2
PHRM 715	Pathophysiology II	4	PHRM 815	Introduction to Integrated Pharmacotherapy/Self-Care	4
PHRM 717	Introductory Pharmacy Law	1	PHRM 817	Introduction to Law, Ethics and Social Issues	2
PHRM 719	Self-Care Therapeutics	2	PHRM 819	Professional Development I	1
	<b>Total</b>	<b>18</b>		<b>Total</b>	<b>16</b>

Second Professional Year					
Current P2 Fall Semester			Proposed revised P2 Fall Semester		
PHRM 718L	Pharmaceutical Care Lab III	2	PHRM 771	Introductory Community Pharmacy Practice Experience	4
PHRM 721	Self-Care Therapeutics II	1	PHRM 820	Integrated Pharmacotherapy I	3
PHRM 726	Pharmacokinetics and Biopharmaceutics	3	PHRM 823	Aspects of Patient Care III	2
PHRM 728	Pharmacoepidemiology and Biomedical Literature Evaluation	3	PHRM 824	Dosage Forms	3
PHRM 731	Mechanisms of Drug Action II	5	PHRM 825	Integrated Pharmacotherapy II	2
PHRM 771	Introductory Community Pharmacy Practice Experience	4	PHRM 828	Pharmacoepidemiology and Research Design	2
	<b>Total</b>	<b>18</b>	PHRM 829	Professional Development II	1
			PHRM 7XX	Elective	2
				<b>Total</b>	<b>19</b>

Second Professional Year					
Current P2 Spring Semester			Proposed revised P2 Spring Semester		
PHRM 732	Mechanisms of Drug Action III	5	PHRM 830	Integrated Pharmacotherapy III	3
PHRM 733L	Pharmaceutical Care Lab IV	2	PHRM 832	Evidence Based Medicine	2
PHRM 739	Pharmacotherapy I	6	PHRM 833	Aspects of Patient Care IV	2
PHRM 772	Introductory Institutional Pharmacy Practice Experience	2	PHRM 835	Integrated Pharmacotherapy IV	3
PHRM 7XX	Professional Elective	2	PHRM 836	Pharmacoeconomics	2
	<b>Total</b>	<b>17</b>	PHRM 837	Pharmacy Management and Operations	3
			PHRM 839	Professional Development III	1
			PHRM 7XX	Elective	2
				<b>Total</b>	<b>18</b>

Third Professional Year					
Current P3 Fall Semester			Proposed revised P3 Fall Semester		
PHRM 751	Pharmacotherapy II	6	PHRM 772	Introductory Institutional Pharmacy Practice Experience	4
PHRM 756	Safe Medication Practices	2	PHRM 840	Integrated Pharmacotherapy V	2
PHRM 759	Advanced Law and Ethics	2	PHRM 842	Safe Medication Practices and Informatics	3
PHRM 762L	Pharmaceutical Care Lab V	2	PHRM 843	Aspects of Patient Care V	2
PHRM 772	Introductory Institutional Pharmacy Practice Experience	2	PHRM 845	Integrated Pharmacotherapy VI	4
PHRM 7XX	Professional Elective	2	PHRM 847	Integrated Pharmacotherapy VII	2
	<b>Total</b>	<b>16</b>	PHRM 849	Professional Development IV	1
				<b>Total</b>	<b>18</b>

Third Professional Year					
Current P3 Spring Semester			Proposed revised P3 Spring Semester		
PHRM 752	Pharmacotherapy III	6	PHRM 850	Integrated Pharmacotherapy VIII	3
PHRM 760	Pharmacy Healthcare Management and Economics	3	PHRM 851	Emerging Trends in Pharmacy	1
PHRM 764	Emerging Technologies in Pharmaceutical Care	1	PHRM 843	Aspects of Patient Care VI	2
PHRM 765L	Pharmaceutical Care Lab VI	2	PHRM 854	Advanced Law and Ethics	2
PHRM 766	Public Health in Pharmacy	2	PHRM 855	Clinical Capstone	5
PHRM 7XX	Professional Elective	2	PHRM 859	Professional Development V	1
	<b>Total</b>	<b>16</b>	PHRM 7XX	Elective	2
				<b>Total</b>	<b>16</b>

Fourth Professional Year					
Current P4 Fall Semester			Proposed revised P4 Fall Semester		
PHRM 770x	Advanced Pharmacy Practice Experience	2	PHRM 770x	Advanced Pharmacy Practice Experience	4
PHRM 770x	Advanced Pharmacy Practice Experience	4	PHRM 770x	Advanced Pharmacy Practice Experience	4
PHRM 770x	Advanced Pharmacy Practice Experience	4	PHRM 770x	Advanced Pharmacy Practice Experience	4
PHRM 770x	Advanced Pharmacy Practice Experience	4	PHRM 770x	Advanced Pharmacy Practice Experience	4
PHRM 770x	Advanced Pharmacy Practice Experience	4	PHRM 770x	Advanced Pharmacy Practice Experience	4
	<b>Total</b>	<b>18</b>		<b>Total</b>	<b>20</b>

Fourth Professional Year					
Current P4 Fall Semester			Proposed revised P4 Fall Semester		
PHRM 770x	Advanced Pharmacy Practice Experience	2	PHRM 770x	Advanced Pharmacy Practice Experience	4
PHRM 770x	Advanced Pharmacy Practice Experience	4	PHRM 770x	Advanced Pharmacy Practice Experience	4
PHRM 770x	Advanced Pharmacy Practice Experience	4	PHRM 770x	Advanced Pharmacy Practice Experience	4
PHRM 770x	Advanced Pharmacy Practice Experience	4	PHRM 770x	Advanced Pharmacy Practice Experience	4
PHRM 770x	Advanced Pharmacy Practice Experience	4		<b>Total</b>	<b>16</b>
	<b>Total</b>	<b>18</b>			

<b>Total number of credits in current PharmD Curriculum</b>	<b>139</b>	<b>Total number of credits in Proposed revised PharmD Curriculum</b>	<b>141</b>
---	------------	--	------------



The College of Pharmacy is requesting approval of a significant revision of the Doctor of Pharmacy (PharmD) curriculum to start in August of 2017. The entry level PharmD curriculum was first approved in the mid-1990's and launched in August 1996. That curriculum was in place until a revised curriculum was launched in 2006 in anticipation of new accreditation standards (ACPE Standards 2007).

The College of Pharmacy has designed a revised curriculum due to two main drivers.

1. Accreditation Council for Pharmacy Education (ACPE) has approved new standards (Standards 2016) for all Colleges of Pharmacy in the United States that take effect on July 1, 2016
2. Center for the Advancement of Pharmacy Education (CAPE) issued new Educational Outcome Statements (CAPE 2013) that guide curricular planning, delivery, and assessment with Colleges of Pharmacy

### **ACPE Standards 2016**

ACPE have refined their standards to ensure that graduating students are “practice-ready” and “team-ready,” that is, prepared to directly contribute to patient care working in collaboration with other healthcare providers. The revision has also placed greater emphasis on critical educational outcomes identified by CAPE and the assessment of the level of student achievement of these outcomes. The Standards focus on the (1) development of students’ professional knowledge, skills, abilities, behaviors, and attitudes, including scientific foundation, knowledge application, and practice competencies, (2) the manner in which programs assess students’ acquisition of knowledge and application of knowledge to practice, (3) mastery of skills and achievement of competencies, and (4) the importance of both curricular and co-curricular experiences in advancing the professional development of students.

### **CAPE 2013**

CAPE built their outcomes around 4 broad domains to direct colleges in educating pharmacists who possess: 1) foundational knowledge that is integrated throughout pharmacy curricula, 2) essentials for practicing pharmacy and delivering patient-centered care, 3) effective approaches to practice and care, and 4) the ability to develop personally and professionally. CAPE 2013 has intentionally expanded beyond knowledge and skills to include the affective domain (self-awareness, innovation, leadership, and professionalism), in recognition of the importance of professional skills and personal attributes to the practice of pharmacy.

The College of Pharmacy has designed a revised curriculum that address the new accreditation standards as well as the new expected educational competencies. Highlights of this revised curriculum are below:

1. The creation of a block curriculum schedule where students several 8 week courses followed by a 2 week fall or spring break followed by a new set of several 8 week courses. Some courses (mainly Aspects of Patient Care and Professional Development) span the whole semester, but will not meet during the 2 week breaks. The College of Pharmacy has already had a new semester schedule approved that mirrors the MD student schedule (i.e. “Fall semester” is July 1<sup>st</sup> through December 31<sup>st</sup> and “Spring semester” is from January 1<sup>st</sup> through June 30<sup>th</sup>). The 8 week block curriculum schedule is also attached to the Form C.

2. The creation of a 7 course series in the second and third year of pharmacy school entitled Integrated Pharmacotherapy that will integrate pathophysiology, pharmacology, medicinal chemistry, and pharmacotherapeutics around the medication therapy of various disease states (cardiology, infectious disease, pulmonary, cancer, endocrinology, etc.). These courses will build off of more fundamental courses taught in the first year and also feature a scaffolded pedagogy where the various disease states will be first taught in the context of a general ambulatory (outpatient) care patient population and then increase in difficulty to a complex ambulatory care population eventually reaching the level of complex hospital (inpatient) care. The College views this curriculum as an upward spiral where students are taught less complex disease states early in the curriculum and then those disease states are revisited (reinforced) as the complexity of patient care increases
3. The creation of a Clinical Capstone course in the final 8 week block of the third year. This course is designed to be a capstone that integrates core pharmacy practice and patient care topics. The course will facilitate student learning and hold students accountable for prior learning in an integrated manner using complex patient cases. The course mimics clinical rotations the student performs in the last year of pharmacy school.
4. The redesign of the Pharmaceutical Care Labs into Aspects of Patient Care skills based courses. The new Aspects courses will still teach the skills associated with pharmacists (compounding, patient counseling, calculations, etc.), but be closely integrated with other courses during the same semester to allow students the opportunity to practice the skills being taught in those courses. A portion of this course will also be more experiential in nature to allow students to have interactions with patients and other healthcare providers to reinforce their knowledge and skills in a real world environment under the supervision of a licensed preceptor.
5. The creation of a 5 course series entitled Professional Development that directly addresses and assesses the affective domain described in the CAPE 2013 Outcomes. These courses will revolve around 5 “professionalism pillars” of Self-Discovery, Professional Identity Formation, Leadership, Career Development, and Interprofessional Development. Course activities and assessments will be developed that are appropriate to the students’ level in the curriculum and also will include contemporary issues in pharmacy practice that are appropriate to all pharmacy students.

The faculty of the College of Pharmacy are confident that this significantly revised curriculum will prepare students to practice pharmacy both today and into the future.

The College of Pharmacy at the UNM is the only College of Pharmacy in the state of New Mexico and is critical in training pharmacists to provide for the healthcare needs of the people of the state. Fully 60% of all NM licensed pharmacists in the state are UNM alumni and work in every county in the state where there is a pharmacy. The need for the PharmD program is self-evident.

The approval of this curricular revision is absolutely critical for the long-range planning of the College. The PharmD program was recently accredited through June 30, 2024, but that accreditation is dependent on the development and implementation of a revised curriculum. The College is required to submit a report to our accrediting agency in October 2017 detailing the progress on the revised curriculum and it will be critical for that report to state that the revised curriculum has been approved and stated in August 2017. Without that report, our accreditation would be in jeopardy. Accreditation is critical for college of pharmacy as only graduates of accredited programs can sit for the pharmacy practice (NAPLEX) and law (MPJE) board exams.

The budgetary impact of this revised curriculum should be minimal. There is a minimal increase in the number of credit hours required for graduation in the revised curriculum (141 credit hours) compared to the current (139 credit hours). Therefore, the College will require no additional faculty positions to teach this new curriculum and no additional tuition, tuition differential, or fee is being requested.

Faculty workload will have a minimal, temporary increase as we launch the revised curriculum while still training students in the current curriculum. A careful review has shown that there are only a few instances when courses in the current and revised curriculums overlap in the same semester and would require faculty to “double teach” for that semester. In some of those instances the College will be able to combine the students from the current and revised curricular cohorts into the same classroom to minimize this increased workload.

## 8-week block scheduling for Doctor of Pharmacy curriculum

18 credit hours																		16 credit hours																					
July			Aug			Sept			Oct			Nov			Dec			Jan			Feb			Mar			Apr			May									
1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
			<b>801 Applied Biochemistry 3 credits</b> Clinical applications of basic biochemical processes at the molecular, cellular and organismal level						<b>Fall Break &amp; Remediation</b>			<b>805 Pathophysiology &amp; Immunology 3 credits</b> Foundations of pathophysiology and immunology						<b>Winter Break</b>			<b>811 Intro to Pharmacology &amp; Med Chem 4 credits</b> Fundamentals of pharmacology and medicinal chemistry						<b>Spring Break &amp; Remediation</b>			<b>815 Intro to Integrated Pharmacotherapeutics/Self-care 4 credits</b> Concepts of IP, self care topics, CAM, drug information						<b>Remediation &amp; Summer Break</b>			
			<b>802 Physical Pharmacy and Biopharmaceutics 3 credits</b> Principles impacting drug development and the performance of pharmaceutical dosage forms.									<b>809 Pharmacy &amp; Health Care Delivery 2 credits</b> Introduction to the US health care delivery systems and role of pharmacy/pharmacists									<b>810 Fundamentals of Pharmacokinetics and Dosage Forms 3 credits</b> Influence of ADME on the time course of drug levels in body as well as fundamental principles of dosage forms									<b>817 Intro to Law, Ethics &amp; Social Issues 2 credits</b> Legal, ethical and social issues that will impact patients and health care									
			<b>804 Public Health 2 credits</b> Concepts of public & population health									<b>803 Aspects of Patient Care I 3 credits</b> Top 200, dispensing skills/function, drug information, calculations, medical terminology, professional communication, IPPE									<b>813 Aspects of Patient Care II 2 credits</b> Top 200, non-sterile compounding, professional communication, integration with self care, drug information, IPPE																		
			<b>807 Fundamentals of Communication 2 credits</b> Instruction and activities by reinforcing key communications skills, including cultural influences, patient interviewing and counseling.																		<b>819 Professional Development I 1 cr</b> :Fnd of self-discovery; Prof'l & Identity formation; leadership; career development & pathways; Contemporary issues in pharmacy practice; IPE																		

15 credit hours + elective(s)																		16 credit hours + elective(s)																		
June/July			Aug			Sept			Oct			Nov			Dec			Jan			Feb			Mar			Apr			May						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Community IPPE 4 credits	820 Integrated Pharmacotherapy I 3 credits General Ambulatory Care: Cardiology; Pulmonary								Fall Break & Remediation	825 Integrated Pharmacotherapy II 2 credits General Ambulatory Care: Endocrinology; Musculoskeletal/Pain; Psychiatry								Winter Break	830 Integrated Pharmacotherapy III 3 credits General Ambulatory Care: Infectious Diseases								Spring Break & Remediation	835 Integrated Pharmacotherapy IV 3 credits Complex Ambulatory Care: Renal; Endocrinology; Pulmonary; Cardiology; GI								Remediation & Summer Break
	824 Dosage Forms 3 credits Fundamental principles of dosage forms, their design and the processes used in manufacturing and compounding									828 Pharmacoepidemiology & Research Design 2 credits Basics of pharmacoepidemiology, biostatistics, evaluation of research design									836 Pharmacoeconomics 2 credits Role of economics in health care: Formularies, cost containment, cost effectiveness									837 Pharmacy Management and Operations 3 credits Management & operation of pharmacies								
	823 Aspects of Patient Care III 2 credits Drug information, professional communication, P/PCP, integration with IP 1 & 2, IPPE																833 Aspects of Patient Care IV 2 credits Sterile preparations, physical assessment, drug information, PPCP, integration with IP 3 & 4, and IPPE																			
	829 Professional Development II 1 cr :Fnd of self-discovery; Prof'l & Identity formation; leadership; career development & pathways; Contemporary issues in pharmacy practice; IPE																839 Professional Development III 1 cr :Fnd of self-discovery; Prof'l & Identity formation; leadership; career development & pathways; Contemporary issues in pharmacy practice; IPE																			

18 credit hours																		14 credit hours + elective(s)																																					
June/July		Aug			Sept			Oct			Nov						Dec			Jan		Feb			Mar		Apr						May																						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18																		
<b>Institutional IPPE 4 credits</b>		<b>840 Integrated Pharmacotherapy V</b> <b>2 credits</b> Complex Ambulatory Care: Infectious Disease								<b>845 Integrated Pharmacotherapy VI</b> <b>4 credits</b> Complex Ambulatory Care: Neurology; Psychiatry										<b>850 Integrated Pharmacotherapy VIII</b> <b>3 credits</b> Complex Hospital Care: Renal, Critical care, Clinical Toxicology & Emergency Preparedness; Cardiology; Pulmonary; Coagulation; GI								<b>855 Clinical Capstone 5 credits</b> Integrating essential core pharmacy practice topics. The philosophy of this course is to facilitate student learning and hold students accountable for prior learning in an integrated manner using complex patient scenarios.																											
		<b>Fall Break &amp; Remediation</b>								<b>847 Integrated Pharmacotherapy VII</b> <b>2 credits</b> Complex Hospital Care: Oncology										<b>Winter Break</b>								<b>851 Emerging Trends in Pharmacy 1 credits</b> Topics of changes in pharmacy research and practice								<b>Spring Break &amp; Remediation</b>								<b>Remediation &amp; APPE</b>											
		<b>842 Safe Meds &amp; Informatics 3 credits</b> Concepts/risk management for medication safety. Pharmacy informatics.																																																					
		<b>843 Aspects of Patient Care V 2 credits</b> Physical assessment, drug information, journal clubs, DUR, MTM, PPCP, integration with IP 5-7, and IPPE																		<b>854 Advanced Law and Ethics 2 credits</b> Preparation for MJPE; Ethical decision making																		<b>853 Aspects of Pt Care VI 2 credits</b> IPPE, integration with IP 8																	
		<b>849 Professional Development IV 1 cr</b> :Fnd of self-discovery; Prof'I & Identity formation; leadership; career development & pathways; Contemporary issues in pharmacy practice; IPE																		<b>859 Professional Development V 1 cr</b> :Fnd of self-discovery; Prof'I & Identity formation; leadership; career development & pathways; Contemporary issues in pharmacy practice; IPE																																			

Students are also required to take a minimum of 6 credits of electives before starting APPEs