

ACADEMIC INFORMATION & CURRICULUM

Curricular Philosophy

The University of South Carolina College of Pharmacy recognizes that individual students learn and develop in a variety of unique ways. We foster an inclusive culture with support from our dedicated faculty, empowering our students to become collaborative, innovative pharmacists who will transform healthcare delivery through practice and groundbreaking research. Our curriculum utilizes educational outcomes to build strong foundations in relevant disciplines, with particular emphasis on biomedical, pharmaceutical, social, administrative and clinical sciences. Faculty serve as facilitators, guiding students to develop problem-solving, critical-thinking and evidence-based practice skills. The college incorporates didactic, interprofessional, laboratory-based, and experiential educational opportunities to create a rich, diverse learning environment. Additionally, students catalyze their own academic and professional growth by participating in a variety of co-curricular and community engagement activities. Upon completion of our Pharm.D. program, graduates are able to practice patient-centered care with proficiency and professionalism, optimize health outcomes, and advance the pharmacy profession.

Pharm.D. Curriculum for Students Entering Program in Fall 2021 and Beyond

(Approved by the USC College of Pharmacy faculty January 5, 2021)

First Year

		Credit Hours
Fall		
PHMY 600	Personal and Professional Development for Student Pharmacists I	1
PHMY 602	Foundations of Pathophysiology and Pharmacology I	2
PHMY 607	Dosage Forms and Drug Delivery Systems	4
PHMY 615	Pharmaceutical Biochemistry	3
PHMY 621	Foundations of Medicinal Chemistry I	3
PHMY 650	Introduction to Pharmacy Practice	2
PHMY 656	Pharmacy Calculations	2
PHMY 671	Pharmacy Skills Lab I: Compounding and Applied Pharmaceutics	1
PHMY 680	Introduction to Drug Information	1
	Credit Hours	19

Spring

PHMY 601	Personal and Professional Development for Student Pharmacists II	1
PHMY 603	Foundations of Pathophysiology and Pharmacology II	3
PHMY 618	Genomics, Pharmacogenomics, and Personalized Medicine	3
PHMY 624	Foundations of Medicinal Chemistry II	3
PHMY 657	Medical Terminology	1
PHMY 662	Patient Care Fundamentals	1
PHMY 670	Pharmacy Skill Lab II: Introduction to Community Pharmacy	1

PHMY 690	Transforming Healthcare	1
PHMY 750	Self-Care and Complementary Medicines	4
	Credit Hours	18

Summer

PHMY 699	Introductory Community Practice Pharmacy Experience	4
	Credit Hours	4

Second Year

Fall

PHMY 700	Personal and Professional Development for Student Pharmacists III	1
PHMY 610	Microbiology/Immunology	4
PHMY 710	Biopharmaceutics and Pharmacokinetics	3
PHMY 722	Pathophysiology and Pharmacology I	3
PHMY 751	Patient Care Applications I	1
PHMY 772	Pharmacotherapy I	4
PHMY 790	Pharmacy Skills Lab III: Introduction to Health-Systems Pharmacy	1

Elective ¹		2
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Elective hours can range 1-3 credits. See footnote below for details

	Credit Hours	19
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Spring

PHMY 701	Personal and Professional Development for Student Pharmacists IV	1
PHMY 723	Pathophysiology and Pharmacology II	2
PHMY 752	Patient Care Applications II	1
PHMY 773	Pharmacotherapy II	5
PHMY 780	Outcomes Design and Assessment	3
PHMY 791	Pharmacy Skills Lab IV: Applied Health-Systems Pharmacy	1
PHMY 890	Clinical Pharmacokinetics	3
Elective ¹		2

Elective hours can range 1-3 credits. See footnote below for details

	Credit Hours	18
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Summer

PHMY 798	Introductory Institutional Practice Pharmacy Experience	4
	Credit Hours	4

Third Year

Fall

PHMY 800	Personal and Professional Development for Student Pharmacists V	1
PHMY 771	Pharmacy Skills Lab V: Applied Community Pharmacy	2
PHMY 822	Pathophysiology and Pharmacology III	3
PHMY 850	Health Care Systems and Management	4
PHMY 862	Patient Care Integration	1
PHMY 873	Pharmacotherapy III	4
PHMY 880	Advanced Drug Information	2
Elective ¹		2

Elective hours can range 1-3 credits. See footnote below for details

	Credit Hours	19
Spring		
PHMY 801	Personal and Professional Development for Student Pharmacists VI	1
PHMY 823	Pathophysiology and Pharmacology IV	2
PHMY 864	Advanced Pharmacy Practice Experience Readiness	1
PHMY 874	Pharmacotherapy IV	5
PHMY 885	Pharmacy Law and Ethics	3
PHMY 895	Clinical Assessment	3
Elective ¹		2

Elective hours can range 1-3 credits. See footnote below for details

Students must complete 8 hours of electives by the end of the third professional Pharm.D. year. See footnote below.

	Credit Hours	17
Summer		
APPE x 1-4		12
	Credit Hours	12
Fourth Year		
Fall		
APPE x 1-4		12
PHMY 999	Clinical Seminar	1
	Credit Hours	13
Spring		
APPE x 1-4		12
Nine 4-credit (one month) rotations may be scheduled in any month between May and April of the P4 year. For this reason, credit hours may range anywhere from 4 to 16 for a given term. See below for details.		
	Credit Hours	12
	Total Credit Hours	155

¹ Typically, electives range from 1 to 3 credit hours. Students must complete 8 hours of electives by the end of the third professional Pharm.D. year.

- Minimum total hours for the professional program is 155 credit hours. The minimum total hours including pre-pharmacy requirements is 221 credit hours.
- Minimum 300 hours of Introductory Practice Experiential Experience (IPPE) (as required by ACPE) will be satisfied by two 4-credit (four week) rotations in the summers of the P1 and P2 years. PHMY 699 and PHMY 798 require a minimum of 160 hours for each IPPE.
- Minimum 1440 hours of Advanced Practice Experiential Experience (APPE) (as required by ACPE) will be satisfied by nine 4-credit (one month) rotations in the P4 year. Refer to the APPE Rotation Manual for PHMY 9xx requirements for rotation hours for each month, but the minimum number of hours that must be completed is 160 hours each. Rotations include: 2 acute/general medicine rotations (critical care, pediatrics, psychiatry, general medicine, internal medicine, cardiology, neurology, nephrology, transplantation, etc.), 1 ambulatory

care rotation, 1 community rotation, 1 hospital/health system rotation, and 4 elective rotations.

- One 1-credit Clinical Seminar (PHMY 999) will be required during the P4 year.
- Students may be required to submit a criminal background check and/or a drug test prior to beginning an introductory or advanced pharmacy practice experience.
- All students are required to complete Basic Life Support for Healthcare Providers training prior to the P1 summer IPPE.
- Courses approved for Doctor of Pharmacy elective credit can be found here (<https://academicbulletins.sc.edu/pharmacy/elective-courses/>).

Pharm.D. Curriculum for Students Entering Program in Fall 2020

(Approved by the USC faculty January 3, 2020)

First Year

Fall		Credit Hours
PHMY 602	Foundations of Pathophysiology and Pharmacology I	2
PHMY 607	Dosage Forms and Drug Delivery Systems	4
PHMY 615	Pharmaceutical Biochemistry	3
PHMY 621	Foundations of Medicinal Chemistry I	3
PHMY 650	Introduction to Pharmacy Practice	2
PHMY 656	Pharmacy Calculations	2
PHMY 671	Pharmacy Skills Lab I: Compounding and Applied Pharmaceutics	1
PHMY 680	Introduction to Drug Information	1
	Credit Hours	18

Spring

PHMY 603	Foundations of Pathophysiology and Pharmacology II	3
PHMY 618	Genomics, Pharmacogenomics, and Personalized Medicine	3
PHMY 624	Foundations of Medicinal Chemistry II	3
PHMY 657	Medical Terminology	1
PHMY 661	Clinical Applications II	1
PHMY 670	Pharmacy Skill Lab II: Introduction to Community Pharmacy	1
PHMY 690	Transforming Healthcare	1
PHMY 750	Self-Care and Complementary Medicines	4
	Credit Hours	17

Summer

PHMY 699	Introductory Community Practice Pharmacy Experience	4
	Credit Hours	4

Second Year

Fall		
PHMY 610	Microbiology/Immunology	4
PHMY 710	Biopharmaceutics and Pharmacokinetics	3
PHMY 722	Pathophysiology and Pharmacology I	3
PHMY 760	Clinical Applications III	1
PHMY 772	Pharmacotherapy I	4

PHMY 790	Pharmacy Skills Lab III: Introduction to Health-Systems Pharmacy	1
Elective ¹		2
Elective hours can range 1-3 credits. See footnote below for details.		

Credit Hours **18**

Spring

PHMY 723	Pathophysiology and Pharmacology II	2
PHMY 761	Clinical Applications IV	1
PHMY 773	Pharmacotherapy II	5
PHMY 780	Outcomes Design and Assessment	3
PHMY 791	Pharmacy Skills Lab IV: Applied Health-Systems Pharmacy	1
PHMY 890	Clinical Pharmacokinetics	3
Elective ¹		2

Elective hours can range 1-3 credits. See footnote below for details.

Credit Hours **17**

Summer

PHMY 798	Introductory Institutional Practice Pharmacy Experience	4
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Credit Hours **4**

Third Year

Fall

PHMY 771	Pharmacy Skills Lab V: Applied Community Pharmacy	2
PHMY 822	Pathophysiology and Pharmacology III	3
PHMY 850	Health Care Systems and Management	4
PHMY 860	Clinical Applications V	1
PHMY 873	Pharmacotherapy III	4
PHMY 880	Advanced Drug Information	2
Elective ¹		2

Elective hours can range 1-3 credits. See bullet point below for details.

Credit Hours **18**

Spring

PHMY 823	Pathophysiology and Pharmacology IV	2
PHMY 861	Clinical Applications VI	1
PHMY 874	Pharmacotherapy IV	5
PHMY 885	Pharmacy Law and Ethics	3
PHMY 895	Clinical Assessment	3
Elective ¹		2

Elective hours can range 1-3 credits. See footnote below for details.

Students must complete 8 hours of electives by the end of the third professional Pharm.D. year. See footnote below.

Credit Hours **16**

Summer

APPE x 1-4		12
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Credit Hours **12**

Fourth Year

Fall

APPE x 1-4		12
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PHMY 999	Clinical Seminar	1
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Credit Hours **13**

Spring

APPE x 1-4		12
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Nine 4-credit (one month) rotations may be scheduled in any month between May and April of the P4 year. For this reason, credit hours may range anywhere from 4 to 16 for a given term. See details below.

Credit Hours **12**

Total Credit Hours **149**

¹ Typically, electives range from 1 to 3 credit hours. Students must complete 8 hours of electives by the end of the third professional Pharm.D. year.

- Minimum total hours for the professional program is 149 credit hours. The minimum total hours including pre-pharmacy requirements is 215 credit hours.
- Minimum 300 hours of Introductory Practice Experiential Experience (IPPE) (as required by ACPE) will be satisfied by two 4-credit (four week) rotations in the summers of the P1 and P2 years. PHMY 699 and PHMY 798 require a minimum of 160 hours for each IPPE.
- Minimum 1440 hours of Advanced Practice Experiential Experience (APPE) (as required by ACPE) will be satisfied by nine 4-credit (one month) rotations in the P4 year. Refer to the APPE Rotation Manual for PHMY 9xx requirements for rotation hours for each month, but the minimum number of hours that must be completed is 160 hours each. Rotations include: 2 acute/general medicine rotations (critical care, pediatrics, psychiatry, general medicine, internal medicine, cardiology, neurology, nephrology, transplantation, etc.), 1 ambulatory care rotation, 1 community rotation, 1 hospital/health system rotation, and 4 elective rotations.
- One 1-credit Clinical Seminar (PHMY 999) will be required during the P4 year.
- Clinical Applications II-V are recitations designed to bring clinical relevance to basic and applied pharmaceutical science principles in a case-based format.
- Clinical Applications VI is a recitation designed as a "capstone" course, where case studies of complex patients will bring together concepts learned throughout the previous professional years.
- Students may be required to submit a criminal background check and/or a drug test prior to beginning an introductory or advanced pharmacy practice experience.
- All students are required to complete Basic Life Support for Healthcare Providers training prior to the P1 summer IPPE.