

<b>Theme, Subject and Competency</b>	Required core courses							Required courses for the PSP track				Suggested electives for the PSP track				Required reinforcing experiences						
	Term	F	F	S	F/Sp	F	F/Sp	F/Sp	Sp	F-O	F-E			F								
	Credit	1	4	4	2/2	3	1-2/ 1-2	1/1	4	3	3			3.5								
<p><b>*Exempt if PharmD from ACPE accredited University</b></p> <p><b>**A total of 4 credits is required</b></p>	<b>Principles of Biochem*</b> PHARM 3011	<b>Pharmacology and Ther*</b> PHARM 3028	<b>Foundations in Pharm Sci</b> PHARM 3071	<b>Grant Writing</b> PHARM 3038	<b>Statistics</b> PHARM 3040 or equivalent	<b>Journal Club**</b> Student/mentor choice	<b>Seminar**</b> PHARM 3024	<b>Pharmaceutical Analysis</b> PAHRM 2001	<b>Pharmacometrics</b> PHARM 3069	<b>Systems Pharmacology</b> PHARM 3068			<b>PK and Drug Response*</b> PHARM 5218					<b>Dissert/Thesis Research</b>	<b>Comprehensive Exam</b>	<b>Manuscripts</b>	<b>Presentations at Scientific Conferences</b>	<b>Teaching Micro-credential</b>

**Learning Outcome from the Graduate Program Assessment Matrix:** Acquire expert knowledge of biological, chemical, and analytical processes related to pharmaceutical sciences. Master a field of scholarship related to a specific research topic.

### LITERATURE REVIEW AND EVALUATION

Extract literature from appropriate bibliographic sources.				X		X	X											X	X	X			
Critique clinical and scientific evidence derived from literature.				X	X	X	X											X	X	X			
Describe the current state of knowledge about a biomedical, clinical, or public health problem.		X		X		X	X											X		X			
Interpret primary research literature within the pharmaceutical sciences			X			X	X		X	X			X							X	X		







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Prepare publication/presentation quality abstracts, posters and manuscripts.				X			X														X	X	X	X	
Develop an appropriate response to constructive criticism of oral and written presentations.				X			X														X	X	X	X	

F = Fall term; Sp = Spring term; Su = Summer Term; E = even yrs; O = Odd yrs. Yellow shading = track-specific competency; Blue shading = Contains a track-specific requirement.

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<b>SCIENTIFIC LEADERSHIP, MANAGEMENT, AND CROSS-DISCIPLINARY TEAMWORK</b>																									
Demonstrate professionalism, interpersonal skills and collegial approaches to teamwork.						X	X							X								X	X	X	
Mentor students in research, clinical, or professional activities.																									X
Recognize the strengths and limitations of personal research skills.							X													X	X	X			

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<b>ETHICAL CONDUCT OF RESEARCH</b>																						
Recognize scientific misconduct and conflict of interest.				X															X			

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