



BS/MS Pharmaceutical Sciences, 5-year dual degree

Year 1							
Fall Semester			Credits	Spring Semester			Credits
BIO 111	General Biology I		4	BIO 121	General Biology II		4
CHE 111	General Chemistry I		4	CHE 121	General Chemistry II		4
HUM 115	Voice and Identity		3	HUM 1XX	Humanities Selective 1		3
PSC 110	Scientific Reasoning and Analysis 1		2	PSC 111	Scientific Reasoning and Analysis 2		2
PSC 115	Survey of Pharmaceutical Sciences		1	PSY101 OR SOC101	General Psychology or Sociology		3
					General/Humanities Elective		3
Note: * Students must take either PSY 101 (Fall) OR SOC 101 (Spring) in either semester Year 1				Note: * Students must take either PSY 101 (Fall) OR SOC 101 (Spring) in either semester Year 1			
	Total		14-17		Total		16-19

Year 2						
Fall Semester			Credits	Spring Semester		Credits
CHE 211	Organic Chemistry I	4	CHE 221	Organic Chemistry II	4	
HUM 2XX	Humanities Selective 2	3	MAT 145	Elementary Statistics	3	
MAT 121	Calculus I	4	PSC205	Principles of Pharmaceutical Analysis	3	
PHY 212	College Physics I	4	PSC241	Intro to Botanical Medicines	3	
PSC 112	Scientific Reasoning and Analysis 3	2		General/Humanities Elective	3	
	Total	17		Total	16	

Year 3							
Fall Semester			Credits	Spring Semester			Credits
PSC 341	Pharmaceutics I		3	PSC 342	Pharmaceutics II		3
PSC 312	Molecular Biology		3	PSC 311	Biochemistry		3
PSC 321	Pathophysiology I		4	PSC 322	Pathophysiology II		4
PSC 369	Molecular Foundations of Drug Action I		3	PSC 371	Pharmacology I		3
	General/Humanities Elective		3		Directed Elective		3
	Total		16				16

Year 4					
Fall Semester		Credits	Spring Semester		Credits
PSC 309	Pharmaceutical Analytical Techniques 1 (PAT1)	3	PSC 311	Pharmaceutical Analytical Techniques 2 (PAT2)	3
PSC 409 or PSC 410	Capstone or Thesis I*	3	PSC 411 or Capstone Selective	Thesis II or Capstone Selective*	3
PSC 631G	Foundations of Pharmaceutical Sciences+	3		Directed Elective	3
PSC 672	Experimental Design and Data Analysis	2		Directed Elective	3
PSC 651G	Pharmaceutical Sciences Journal Club	1		Graduate Elective (UG DIR Elective)+	3
	Directed Elective	3		Graduate Elective (UG DIR	3

Table 2 <https://www.acphs.edu/bs-pharmaceutical-sciences-curriculum>

Notes: + indicates a graduate-level course that counts for both undergraduate and graduate level credit; * indicates students take either PSC410 and PSC411 (6 credits) OR PSC 409 and Capstone Elective (6 credits)	
Total	15

Notes: + indicates a graduate-level course that counts for both undergraduate and graduate level credit; * indicates students take either PSC410 and PSC411 (6 credits) OR PSC 409 and Capstone Elective (6 credits)	
Total	18

Year 5					
Fall Semester			Spring Semester		
PSC 624	Industry Pharma & Biopharma Entrepreneurship	3	PSC 750	Capstone	3
PSC 641	Advanced Pharmaceuticals	3	ETH610	Ethics in Research	1
PSC 741	Pharmacokinetic modeling	3		Graduate Elective	3
PSC610	Technical Writing for the Biopharmaceutical Industry	2		Graduate Elective	3
	Total	11		Total	10

TOTAL CREDITS = 152-155[Questions?](#)[Office of Admissions 518-694-7221](#)admissions@acphs.edu

Pre-Med Coursework		
Course Number	Course Title	Course Credits
BIO 111	General Biology I	4
BIO 121	General Biology II	4
CHE 111	General Chemistry I	4
CHE 121	General Chemistry II	4
CHE 211	Organic Chemistry I	4
CHE 221	Organic Chemistry II	4
DIR	Directed Elective (incl PHY 222)	
HUM 115	Voice and Identity	3
MAT 121	Calculus I	4
MAT 145	Elementary Statistics	3
PHY 212	College Physics I	4
PSC 311	Biochemistry	3
PSC 312	Molecular Biology	3
PSC 321	Pathophysiology I	4
PSC 322	Pathophysiology II	4