

BS in Physiology-PharmD Degree (2+4 Plan)



University of Wyoming

Freshman Fall Semester			Hrs	Min Grade	Notes
LIFE	1010	General Biology	4	C	PN. C required for ZOO3115 and MOLB2021/LIFE2022
MATH	2200	Calculus I	4	*	Section aimed at Biologists is recommended. Prerequisite of ACT27, MPE of 5, MATH1405 or MATH1450
CHEM	1020	General Chemistry I	4	C	PN. C required for ZOO3115
		First Year Seminar or COM1	3	C	USP: FYS or COM1
Credit hours subtotal:			15		

Freshman Spring Semester			Hrs	Min Grade	Notes
LIFE	2022	Animal Biology	4	C	C in either Animal Biology or Med Micro required for Genetics
KIN	2040	Human Anatomy	3		Required for the PharmD degree. Prerequisite of General Biol
KIN	2041	Human Anatomy Lab	1		
CHEM	1030	General Chemistry II	4		Prerequisite of General Chemistry I
		US & Wyoming Constitutions	3	V	
		COM1 or First Year Seminar	3	C	USP: COM1 or FYS
Credit hours subtotal:			18		

Sophomore Fall Semester			Hrs	Min Grade	Notes
MOLB	2021	General Microbiology	4	C	PharmD requirement. C in either Animal Biology or Gen Micro required for Genetics
PHYS	1110	General Physics I	4		Alternative: PHYS1310 Gen Physics I Calculus based
CHEM	2420	Organic Chemistry I	4	*	Prerequisite of General Chemistry II
		Human Culture	3		H: MUST be also ASD or ASG
		COM2	3	C	USP: COM2
Credit hours subtotal:			18		

Sophomore Spring Semester			Hrs	Min Grade	Notes
STAT	2050	Fundamentals of Statistics	4		
PHYS	1120	General Physics II	4		Alternative: PHYS1320 Gen Physics II Calculus based
CHEM	2440	Organic Chemistry II	4	*	Prerequisite of Organic Chemistry I
ZOO	3115	Human Systems Physiology	4	C	Prerequisite of General Biology. C required for ZOO4125.
		Human Culture	3		H: MUST be also ASD or ASG
Credit hours subtotal:			19		

Notes:

Students are allowed to take the professional program courses that appear below only after they have been fully admitted to the UW School of Pharmacy. The pharmacy class size is limited 52 students per year and admission into the program is highly competitive. Students apply to the professional pharmacy program during the summer between their freshman and sophomore year. Applicants to the UW School of Pharmacy must use the PharmCAS application process and take the Pharmacy College Admissions Test (PCAT). Students enrolled in the BS-Pharm.D Program must meet with advisors from both the physiology and pharmacy departments. Students must have a minimum cumulative GPA of 2.0 to graduate with a Physiology BS and 2.5 to graduate with a PharmD degree. For Physiology, students must complete 42 hours of upper division coursework, 30 of which must be from the University of Wyoming. No more than 60 hours in the major subject may be used toward the 125 credits

required. A minimum of 30h in courses noted by a * must be completed with a C grade or higher. Courses for the major and the A&S Core must be taken for a letter grade unless offered for S/U only. H and PN courses must be taken outside the major subject, but can be cross-listed with the major.

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Junior (P1) Fall Semester (PH1)			Hrs	Min Grade	Notes
PHYC	6100	Dose Form Design	4		PharmD requirement
PHYC	6101	Practical Aspects Dose Form Desigr	1		PharmD requirement
PHYC	6185	Seminar: Role of the Pharmacist	1		PharmD requirement
PHYC	6106	Pharmaceutical Calculations	2		PharmD requirement
PHYC	6250	Drug Literature Evaluation	3		PharmD requirement
LIFE	4125	Integrative Physiology	5	C	Physiology BS and PharmD requirement
MOLB	3610	Principles of Biochemistry	4	*	Physiology BS elective and PharmD requirement
Credit hours subtotal:			20		

Junior (P1) Spring Semester (PH1)			Hrs	Min Grade	Notes
PHCY	6220	Pathophysiology	4	*	Physiology BS elective and PharmD requirement
PHCY	6102	Biopharmaceutics/Pharmacokinetic	4		PharmD requirement
PHCY	6152	Therapeutics I	3		PharmD requirement
PHCY	6354	Pharmacy Practice Laboratory	2		PharmD requirement
PHCY	6110	Medicinal/Natural Products Chemis	3		PharmD requirement
PHCY	6170	Introductory Pharmacy Practicum	1		PharmD requirement
PHCY	6285	Seminar: Drug Use Process	1		PharmD requirement
Credit hours subtotal:			18		

P1 Summer			Hrs	Min Grade	Notes
PHCY	6480	Introduction to Community Pharmaceut	4		PharmD requirement
PHCY	6482	Introduction to Institutional Pharmaceut	4		PharmD requirement
Credit hours subtotal:			8		

Senior (P2) Fall Semester			Hrs	Min Grade	Notes
ZOO	4280	Introduction to Neuroscience	3	*	Suggested Physiology BS elective
PHYC	6230	Pharmacology I	4		Physiology BS elective and PharmD requirement
PHYC	6211	Medicinal/Natural Products Chemis	3		PharmD requirement
PHYC	6280	Pharmacy Ethics	1		PharmD requirement
LIFE	3050	Genetics	4	*	Physiology BS requirement and PharmD elective
Credit hours subtotal:			15		

Senior (P2) Spring Semester			Hrs	Min Grade	Notes
ZOO	4100	Communication in Biological Scienc	3	C	COM3; Can substitute Pharmacy COM3
NEUR	5887	Neuropharmacology	3	*	Suggested Physiology BS elective and PharmD elective
PHYC	6231	Pharmacology II	4	*	Physiology BS elective and PharmD requirement
PHYC	6241	Organizational/Societal Issues	3		PharmD requirement
PHYC	6270	Intermediate Pharmacy Practicum	1		PharmD requirement
PHYC	6251	Therapeutics II	3		PharmD requirement
Semester Credit hours subtotal:			17		
Upper division hours			62		
Physiology elective hours			22		

TOTAL CREDIT HOURS: 140

Notes:

Students must enroll in Human Culture requirement courses that correspond to the College of Arts & Sciences Core required US Diversity (ASD) and Global Awareness (ASG) electives or else they will have to take separate ASD and ASG courses. A list of ASD & ASG courses that double is available.



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P3 Fall Semester

Rubric	#	Course Title	#	Grade	USP, Co-req, Timing	Notes
PHCY 6312		Clinical Toxicology	3	C		Admission to the professional program
PHCY 6341		Pharmacy Practice Law	3	C		Admission to the professional program
PHCY 6350		Therapeutics III	4	C		Admission to the professional program
PHCY 6357		Clinical Pharmacokinetics	2	C		Admission to the professional program
PHCY 6356		Physical Assessment in the Evaluation of	1	C		Admission to the professional program
Elective			4	C		Admission to the professional program

Credit hours subtotal: **17**

P3 Spring Semester

	Hrs	Min	Grade	Notes
PHCY 6342 Pharmacy Administration	3		C	Admission to the professional program
PHCY 6343 Pharmacoeconomics	2		C	Admission to the professional program
PHCY 6351 Therapeutics IV	4		C	Admission to the professional program
PHCY 6370 Advanced Pharmacy Experience Orientation	1		C	Com 3 Admission to the professional program
PHCY 6103 Sterile Products	2		C	Admission to the professional program
PHCY 6104 Sterile Products Laboratory	1		C	Admission to the professional program
Electives	4		C	Admission to the professional program

Credit hours subtotal: **17**

P4 Summer, Fall and Spring Semesters

	Hrs	Min	Grade	Notes
3 PHCY 6485 Reflective Weeks	3		C	Admission to the professional program
PHCY 6470 Internal Medicine I	4		C	Admission to the professional program
PHCY 6471 Internal Medicine II	4		C	Com 3 Admission to the professional program
PHCY 6473 Ambulatory Care	4		C	Com 3 Admission to the professional program
PHCY 6481 Advanced Community Pharmacy	4		C	Admission to the professional program
PHCY 6483 Advanced Institutional Pharmacy	4		C	Admission to the professional program
PHCY 6465 Electives (4)	16		C	Admission to the professional program

Credit hours subtotal: **39**

TOTAL CREDIT HOURS (PharmD): 151

Notes: