## **Biochemistry/DPT**

12 credits in the major and 9 credits in the minor must be completed at Alvernia University When pursuing a double major, you must have 12 distinct credits between the two majors.

Semester 1	Credits	Semester 2		Credits				
Diversity graduation requirement <i>cannot</i> be fulfilled through major courses; students should fulfill this with a Gen Ed class								
Please check with the Department regarding the Ser	nior Capston	e graduation requirement						
SRH 101: First Year or	3	BIO 221: General Microbiology w/lab		4				
HNR 160: Search Seminar-Enduring Questions		CHE 105: General Chemistry II		3				
BIO 103: Principles of Biology w/lab	4	CHE 111: General Chemistry Lab II		1				
CHE 104: General Chemistry I	3	MAT 230: Calculus I		4				
CHE 110: General Chemistry Lab I	1	PSY 101		3				
CHE 107: Laboratory Safety	1	THE 105 or PHI 105		<u>3</u>				
MAT 131 (if needed) or Gen Ed	3							
TOT	AL 15	]	ΓΟΤΑL	18				

Students should expect to take additional coursework (3-6 credits of Gen Ed) over the summer or winter in order to complete this program. A BS in BIOCHEMISTRY is awarded at the end of the 4<sup>th</sup> year. The remainder of the DPT curriculum will result in the earning of the DPT.

Semester 3	Credits	Semester 4	Credits
CHE 201: Organic Chemistry I	3	BIO 108/118 (counts as the BIO/CHE elective)	4
CHE 210: Organic Chemistry Lab I	1	BIO 304/311: Cell Biology w/lab (or BIO 409:	3-4
BIO 303: Genetics	3	Immunology offered in Fall) or Gen Ed	
BIO 309: Molecular Genetics Lab	1	CHE 202: Organic Chemistry II	3
BIO 107/117 (subs for BIO 104)	4	CHE 211: Organic Chemistry Lab II	1
THE 105 or PHI 105	3	Gen Ed	3
Gen Ed or BIO 409 (if chosen over BIO 304/311; keep	<u>3</u>	Gen Ed	<u>3</u>
in mind that BIO 409 is offered every other year so BIO 409 may need to be taken in Junior Fall semester			
instead) TOTAL	18	TOTAL	17-18
Semester 5	Credits	Semester 6	Credits
By January 15 of Junior Year: Must mee	et DPT Pro	ogression Requirements: GPA: overall 3.5; Science 3.5	
CHE 401 Biochemistry	3	PHY 201: Physics II w/lab	4
CHE 410 Biochemistry lab	1	CHE 302: Physical Chemistry II	3
PHY 200: Physics I w/lab	4	CHE 311: Physical Chemistry II lab	1
CHE 301: Physical Chemistry I	3	MAT 209: Probability and Statistics	3
CHE 310: Physical Chemistry I lab	1	MAT 220: Math/Stats Computer Lab	1
Gen Ed	3	Gen Ed	3
Gen Ed	<u>3</u>	Gen Ed	<u>3</u>
TOTAL	18	TOTAL	18
Semester 7	Credits	Semester 8	Credits
DPT 500 Gross Anatomy & Histology	5	DPT 502 Kinesiology	4
DPT 503 Applied Physiology for Physical Therapy	5	DPT 516 Musculoskeletal Practice I	3
DPT 504 Practice Management I	3	DPT 520 Neuromuscular Practice I	3
DPT 508 PT Procedures I	4	DPT 509 Found Clin Exam & Eval	4
DPT 512 Critical Inquiry I	1	DPT 528 Cardio Practice I	3
DPT 522 Foundations of Clinical Practice	<u>1</u>	DPT 523 Clinical Practice I	<u>1</u>
TOTAL	19	TOTAL	18

Academic Policy on Eligibility for Participation of May Commencement Ceremony

The <u>academic policy</u>, which the Registrar follows, is: A student who has 6 or less credits remaining to complete the degree may participate in the May Commencement Ceremony. The Graduation Application is available online in myAlvernia on the 'Academics' tab. Seniors must submit the Graduation Application to the Registrar's Office as follows: October 1 for May Graduation; December 1 for August graduation; and March 1 for December graduation. If you have any questions, please call the Registrar's Office (610.796.8201)

### Curriculum Sheets, EAB Navigate, and AUAdvise

The information on this page and the Curriculum Sheet is provided in AUAdvise - EAB Navigate as a static tool for discussion purposes when meeting with students to schedule courses. <u>Degree</u> <u>Audit uAcheive</u> remains the official source for each student's curiculum audit. Degree Audit uAchieve must be used together with the Curriculum Sheet to determine whether the information noted during scheduling meetings on the curriculum sheet remains accurate.

#### **General Notes**

• A minimum of 123 credits are required for graduation.

• Where appropriate, courses required for the major can be used to satisfy General Education requirements. However, the credits earned for these courses are applied to either Gen Ed requirements or the major, not both.

• Paths of Knowledge coursework may count towards major or minor requirements, but may not fulfill a second Mid-Level Liberal Arts Exploration requirement.

• Students are expected to follow the catalog requirements for General Education, the major, and additional requirements.

• A minor or second major within the areas listed under Paths of Knowledge automatically fulfills that area of the Gen Ed requirements.

• Students must complete 45 of their last 60 credits at Alvernia University

• Students must complete community service hours as part of the General Education Program

#### **Major Notes**

The DPT program is offered in a 4+3 year and 3+3 year curricular format. Prospective students with an earned bachelor's degree from Alvernia or another four-year accredited institution are welcome to apply to the 4+3 year format. The 3+3 year format enables Alvernia students who are admitted into 1 of 4 majors to follow a curricular plan in that major with the intention to be admitted to the DPT program in their senior year, upon completion of all requirements. Interested students should contact Dr. Christopher Wise, Physical Therapy Department Chair at christopher.wise@alvernia.edu. All prerequisite courses must be completed within 10 years of application to the DPT Program. \*Admission Requirements subject to change\*

The following Prerequisites courses must be completed with a final grade of "C" or better:

- Human Anatomy and Physiology I and II 4 credits each with lab Biology 3-4 credits
- Chemistry I and II 4 credits each with lab
- Physics I and II 4 credits each with lab
- Social Sciences 6-9 credits (psychology, sociology/anthropology, humanities)
- Statistics 3 credits
- English Composition/Writing 3 credits

In order to enter the DPT program within the Alvernia accelerated (3+3) format, students must complete the following preadmission criteria:

- Achieve a cumulative GPA of 3.25, Science GPA of 3.0, Prerequisites GPA of 3.0
- Achieve a minimum grade of "C" in all Prerequisites courses

• All DPT prerequisite courses (listed above) must be taken at a four- year accredited institution. If taken at another institution, only courses in which the student achieved a grade of "B", or higher, will be transferred.

• All 3+3 students must follow the guidelines for applying to the program and submit all required documents through the Physical Therapy Centralized Application Service (PTCAS), which can be accessed through the DPT Program homepage. All decisions are contingent upon the applicant's maintaining admission criteria throughout the final semester.

• A minimum of 100 hours of observation, which shall include experiences in a broad range of settings that include both outpatient and inpatient physical therapy settings. Recommended settings include skilled nursing facilities, assisted living facilities, pediatric intervention settings, home health settings, acute or sub-acute inpatient rehabilitation settings, acute hospital settings, sports and orthopedic settings, and/or private practices.

• Three letters of reference that shall include one each from a: licensed PT, professor, and other non-family member. Applicants should ensure that their chosen references have knowledge of and can speak to the qualities/attributes required of a doctorally prepared health professional and to their readiness to handle the academic rigor of doctoral study.

• Advanced Placement (AP) courses taken in high school, if accepted by undergraduate admissions upon entrance into the university, will be accepted as fulfilling the Prerequisites for entrance into the DPT Program. These courses must appear on the undergraduate transcript. • Non-science Prerequisites (statistics, social science, psychology) may be completed online. For science Prerequisites (biology, chemistry, physics, anatomy, and physiology), the lecture portion of each course may be taken online, but the laboratory portion of each course must be taken in a traditional laboratory setting.

# Degree/Major: BS BIOCHEM – DPT

Name:			_ Id:		
2 <sup>nd</sup> Major:	3 <sup>rd</sup> Major:	Minor:	2 <sup>nd</sup> Minor:	Matriculation Year 2024-2025 - Term:	
GENERAL ED	UCATION	Grade	Notes:		
				BIOCHEMISTRY (108-112 cr)	Grade Notes:
Enduring Ques				Major (29 cr)	
	Sem. Enduring Quest			CHE 104 General Chemistry I	(3)
	oundations of Theolo		. <u></u>	/□/ CHE 105 General Chemistry II	(3)
	roduction to Philoso			/ CHE 107 Laboratory Safety	(1)
	Composition & Resea	arch $(3)$	. <u></u>	CHE 110 General Chemistry Lab I	(1)
(	C grade or better)			/□/ CHE 111 General Chemistry Lab II	(1)
				CHE 201 Organic Chemistry I	(3)
	Natural World (6-8)			/ CHE 202 Organic Chemistry II	(3)
		(x)		/ CHE 210 Organic Chemistry Lab I	(1)
(4	<i>not</i> MAT 100)			/ CHE 211 Organic Chemistry Lab II	(1)
Met	in Related Area	(x)		/ CHE 301 Physical Chemistry I	(3)
()	Science with Lab)	( )		/ CHE 302 Physical Chemistry II	(3)
Ì	,			/ CHE 310 Physical Chemistry Lab I	(1)
ulture & Lan	guage (9 cr)			/ CHE 311 Physical Chemistry Lab II	(1)
☐/ COM <u>103 c</u>		(3)		/ CHE 401 Biochemistry	(3)
(1	not COM 100 or 101)			CHE 410 Biochemistry Lab	(1)
orld Language	e – 2 courses in sequ	ence		Select:	
		(3)		SCI 480 Biology Internship	(x)
		(3)		OR	
		(*)	·	SCI 406 Research I	(x)
ndividuals & C	Communities (6 cr)			SCI 407 Research II	(x)
7/ HIS or POS		(3)		<u>DPT 508 &amp; 509 (see below)</u>	
Met y	with PSV 101	(3)			
	PSY, HIS, POS, SOC, S	(A) SSC_ or ECON		Major Elective: (4 cr)	
()	151,1115,105,500,1	bbe, or Leony		/ []/ BIO 108 Human A & P II	(3)
Creative Expre	essions (6 cr)			/ BIO 118 Human A & P II Lab	(1)
		(3)		Related Requirements (38-42 cr)	
		(3)		/ BIO 103 Principles of Biology I	(4)
<b></b>	Art Music or Theatre)	(3)		/ BIO 107 Human A&P I	(3) <u>sub for</u>
(4	(int, whose, or meduce)			/ 🔲 / BIO 117 Human A&P II	(1) <u>BIO 104</u>
thical Leader	s & Followers (6 cr)			/ BIO 221 General Microbiology	(4)
		(3)		/ BIO 303 & 309 Genetics and Lab	(4)
	200-400 level)	(3)		/ BIO 304 Cell Biology & BIO 311 OR	(4)
□/ THE/PHI		(3)		BIO 409 Immunology	(3)
	ethics/morality @ 2001	(3)		/ PHY 200 Physics I w/Lab	(4)
(	, 9	)		/ PHY 201 Physics II w/Lab	(4)
aths of Knowl	ledge (9 cr @ 200-4	00 level in ONE path	h)	/ MAT 209 Probability & Statistics	(3)
Met in Rela	ted w/ BIO 221	(x)	,	/ MAT 220 Math Stats Computer Lab	
Met in Rela	ted w/ BIO 303/309	(x)		/ MAT 230 Calculus I	(4)
	ted w/ BIO 304/311	(x)		/☐ PSY 101 Introductory Psychology	(3)
		()		SCI 402 <u>DPT 522&amp;528 (see below)</u>	(x)
Human Dive	rsity:			Recommended:	
				/ MAT 131 Pre-Calculus	(3)
Writing Enh	tone: <u></u> anced Course: <u>will b</u>	e met with CHE 211			
		ired: Met:		Doctor of Physical Therapy (37 cr.)	
Overall GPA				/□/ DPT 500 Gross Anatomy & Histology	(5)
Science GPA				DPT 502 Kinesiology	(5) (4)
				/ DPT 503 Physiology PT	(5)
Pre-Kequisit	te GPA >= 3.0			/ DPT 504 Practice Mgmt I	(3)
anidan De				/ DPT 508 PT Procedures I	
esidency Requ				/ DPT 509 Found Clinical Exam & Eval	(4)
45 of last 60		_		$\sqrt{\Box}$ DPT 512 Critical Inquiry I	(1)
-	ernia credits in major			/ DPT 516 Musculoskeletal PT Prac I	(3)
	nia credits in minor (i			/ DPT 520 Neuromuscular PT Practice	
Min 123 not	n-remedial credits ea	arned		/ DPT 523 Clinical Practice I	(1)
				/ DPT 522 Found. Clinical Practice	(1)
				$\square$ DPT 528 Cardio Practice I	(3)
					< <u>-</u>