



ADVISING WORKSHEET: BIOLOGY – DPT

MAJOR NOTES

Admission Criteria into the Accelerated 3+3 Program:

Decisions regarding admission into the university will be made by the Office of Admissions. Admission into the DPT accelerated (3+3) program will be available to students who meet the criteria (3.5 high school GPA). Admission into the accelerated program will be determined by the Department of Physical Therapy admissions committee in accordance with the university undergraduate admissions policies. Upon timely completion of ALL admission criteria, applicants will be offered admission into the accelerated program upon entrance into the university and upon timely completion of ALL admission criteria will be offered conditional guaranteed admission into the graduate DPT Program, as determined by the maximum number of allotted seats in the program as determined by accreditation. Students within the accelerated (3+3) format will follow a curricular plan in one of four majors with "DPT" listed as the student's second major. The majors include Biochemistry, Biology, Healthcare Science or Psychology. It is also highly recommended that the Alvernia 3+3 students take Neuroscience (BIO 208) and Kinesiology (BIO 211).

Accelerated 3+3 and 4+3 students who have met all of the criteria, must achieve the required GPA for admission into the DPT program by **January 15** of their junior year to progress into the graduate DPT program. Applicants will be notified of their acceptance status into the program by **March 1**.

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

- Achieve a cumulative GPA of 3.25, Science GPA of 3.0, pre-requisite GPA of 3.0
- Achieve a minimum grade of "C" in all pre-requisite courses
- All DPT prerequisite courses (listed below) 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 pre-requisites for entrance into the DPT Program. These courses must appear on the undergraduate transcript.
- Non-science pre-requisites (statistics, social science, psychology) may be completed online. For science pre-requisites (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.

Doctor of Physical Therapy Program at Alvernia University is accredited by the Commission on Accreditation in Physical Therapy (CAPTE), 3030 Potomac Avenue, Suite 100, Alexandria, Virginia 22305-3085; telephone: 703-706-3245; email: accreditation@apta.org; website: <http://www.capteonline.org>. If needing to contact the program/institution directly, please call 610-568-1546 or email christopher.wise@alvernia.edu. For more information regarding the process of accreditation, please contact the:

Commission on Accreditation in Physical Therapy Education
3030 Potomac Avenue, Suite 100
Alexandria, VA 22305-3085
Phone: 703-706-3245
Email: accreditation@apta.org

DPT Prerequisite Courses (must have "C" or greater):

- Human Anatomy and Physiology I and II - 4 credits each with lab
- Biology – 3-4 credits (excluding BIO 109, BIO 203, BIO 115/116)
- 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
- Humanities/Communications - 3 credits (COM 103) OR Interpersonal Communication - 3 credits (COM 213)

All prerequisite courses must be completed within 10 years of application to the DPT Program.

****Admission Requirements subject to change.***

Matriculation Year 2022-2023

General Education (55-56 credits)

First Year Curriculum: Enduring Questions	Credits Required	Course	Term	Grade	Credits Earned
SRH 101: Search Sem-Enduring Questions or HNR 160: Honor Search-Enduring Questions	3	SRH 101 / HNR 160			
COM 101: Composition & Research <i>(Must earn a C or higher)</i>	3	COM 101			
THE 105: Foundations of Theology	3	THE 105			
PHI 105: Introduction to Philosophy	3	PHI 105			

Mid-Level Liberal Arts Exploration	Credits Required	Course	Term	Grade	Credits Earned
EXPLORING THE NATURAL WORLD (6-8 credits)					
Lab Science (Biology, Chemistry, Physics)	4	MET WITH BIO 107/117			
Math (Other than MAT 100)	3	MET WITH MAT 209			
INDIVIDUALS & COMMUNITIES (6 credits)					
History or Political Science	3				
PSY 101, HIS, POS, SOC, SSC, or ECON	3	MET WITH PSY 101			
CULTURE & LANGUAGE (9 credits)					
Communication (<i>Not COM 100 or 101</i>)	3				
World Language – 2 courses in sequence	3				
	3				
CREATIVE EXPRESSIONS (6 credits)					
Literature (ENG)	3				
Art, Music, or Theatre	3				

Ethical Leaders and Followers	Credits Required	Course	Term	Grade	Credits Earned
Theology or Philosophy (200-400 level)	3				
Theology or Philosophy (Ethics/Morality @ 200 level)	3				

Paths of Knowledge – Choose 1 Path		PoK may count towards minor or Related Requirements, but not Mid-Level Arts Exploration requirements.			
_____ PATH 1: Interdisciplinary Study (IS) Three courses, at least two from Liberal Arts disciplines, not the major, at the 200-400 level from the interdisciplinary minors of Women & Gender Studies, Digital Media, Community & Environmental Sustainability, Community Engagement, Cultural Studies, Leadership Studies or Pre-Law.	_____ PATH 2: Multi-disciplinary Study (MS) Three courses, at least two from Liberal Arts disciplines, not the major, at the 200-400 level employing multiple disciplinary perspectives to explore the Enduring Questions in one of the following themes: Cultural & Global Studies, Imagination & Creativity, Peace & Conflict, Poverty & Wealth or Sustainability, Science & Technology.	_____ PATH 3: In-depth Disciplinary Study (DS) Three courses at the 200-400 level in one Liberal Arts discipline other than one's major, guided by common ideas and methods of inquiry. Students choose from Art, Biology, Chemistry, Communication, Computer Science, Economics, English, History, Mathematics, Music, Philosophy, Political Science, Psychology, Sociology, Theology, Theatre or World Languages. This path may be used to give students a firm foundation in a discipline supporting their chosen major, or to pursue an interest in one of the Liberal Arts disciplines.			
Course (See Catalog for lists of approved courses for each area.)		Area or Discipline	Term	Grade	Credits Earned
MET IN RELATED REQUIREMENTS					
MET IN RELATED REQUIREMENTS					
MET IN RELATED REQUIREMENTS					

BS BIOLOGY - DPT (101-104 credits)

MAJOR COURSES (20 credits)					
Course	Pre-Requisites	Co-Requisites	Term	Grade	Credits
BIO 103: Principles of Biology					4
BIO 104: Principles of Biology II	BIO 103 or instructor permission				4
BIO 221: General Microbiology	BIO103, 104, 107/117 "C" or permission				4
BIO 303: Genetics	BIO 104 or instructor permission	BIO 309			3
BIO 304: Cell Biology	BIO 104, CHE 105, 202	BIO 311			3
BIO 309: Molecular Genetics Lab		BIO 303			1
BIO 311: Cellular Physiology Lab		BIO 304			1
SCI 402: Seminar	MET WITH DPT 522 & 528				X
Select one 6-credit option=> MET WITH DPT 508 & 509	6 credits Research Sequence: SCI 406 & 407: Research I & II (6 credits) or 6 credits of Internship: SCI 480: Biology Internship	Internship required 2.5 GPA			X
RELATED REQUIREMENTS (36 credits)					
Course	Pre-Requisites	Co-Requisites	Term	Grade	Credits
CHE 104: General Chemistry I		CHE 110 or 112			3
CHE 105: General Chemistry II	CHE 104, 110 or	CHE 111			3
CHE 107: Laboratory Safety					1
CHE 110: General Chemistry Lab I		CHE 104			1
CHE 111: General Chemistry Lab II	CHE 104, 110 or	CHE 105			1
CHE 201: Organic Chemistry I	CHE 104, 105, 110	CHE 210			3
CHE 202: Organic Chemistry II	CHE 201, 210	CHE 211			3
CHE 210: Organic Chemistry Lab I	CHE 104, 105, 110 or =	CHE 201			1
CHE 211: Organic Chemistry Lab II	CHE 201, 210	CHE 202			1
MAT 209 Probability & Statistics	satisfactory score on Math placement				3
MAT 220 Mat Comp/Statistics Lab					1
MAT 230 Calculus I	MAT 131/satisfactory score placement				4
PSY 101 Introductory Psychology					3
PHY 200 Physics I	MAT 230 (or as a co-requisite)	MAT 230			4
PHY 201 Physics II	PHY 200				4
MAJOR ELECTIVES (8 CREDITS)					
Course	Pre-Requisite	Term	Grade	Credits	
BIO 107 Human A & P I				3	
BIO 117 Human A & P I Lab				1	
BIO 108 Human A & P II				3	
BIO 118 Human A & P II Lab				1	
RECOMMENDED (3 CREDITS)					
MAT 131 PRE-CALCULUS				3	
DOCTOR OF PHYSICAL THERAPY (37 credits)					
COURSE	Pre-Requisite	Term	Grade	Credits	
DPT 500 Gross Anatomy & Histology				5	
DPT 502 Kinesiology				4	
DPT 503 Applied Physiology for Physical Therapy Practice				5	
DPT 504 Practice Management I				3	
DPT 508 Physical Therapy Procedures I				4	
DPT 509 Foundations of Clinical Examination & Evaluation				4	
DPT 512 Critical Inquiry I				1	
DPT 516 Musculoskeletal Physical Therapy Practice I				3	
DPT 520 Neuromuscular Physical Therapy Practice				3	
DPT 522 Foundations of Clinical Practice				1	
DPT 523 Clinical Practice I				1	
DPT 528 Cardiopulmonary Physical Therapy Practice I				3	

*** Please be advised to double check the 22-23 Course Catalog to ensure that you meet all prerequisite expectations for all required and related classes for this major.***

BIOLOGY/DPT FOUR (4) YEAR PLAN (3+3 Curriculum Plan)

During the first 3 semesters, it is important for students to make substantial progress toward completing those BIO and CHE courses that are pre-requisites for other required science courses. **Courses in bold are DPT Prerequisites.**

The below is not intended to represent a prescribed course progression.

Semester 1	Credits	Semester 2	Credits
SRH 101: Search Sem-Enduring Questions or HNR 160: Honor Search-Enduring Questions	3	BIO 104: Principles of Biology II w/lab	4
COM 101: Composition & Research or MAT 131	3	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	COM 101 or THE 105 or PHI 105	3
CHE 107: Laboratory Safety	1		
TOTAL	15	TOTAL	15
Semester 3	Credits	Semester 4	Credits
CHE 201: Organic Chemistry I	3	Biology Elective (BIO 108/118)	4
CHE 210: Organic Chemistry Lab I	1	BIO 221: General Microbiology w/lab	4
Biology Elective (BIO 107/117)	4	CHE 202: Organic Chemistry II	3
THE 105 or PHI 105 (if both were not taken)	3	CHE 211: Organic Chemistry Lab II	1
Gen Ed SEARCH	3	Gen Ed SEARCH	3
Gen Ed SEARCH	3	Gen Ed SEARCH	3
TOTAL	17	TOTAL	18
Semester 5	Credits	Semester 6	Credits
BIO 303: Genetics	3	BIO 304: Cell Biology	3
BIO 309: Molecular Genetics Lab	1	BIO 311: Cell Physiology Lab	1
PHY 200: Physics I w/lab	4	PHY 201: Physics II w/lab	4
Gen Ed SEARCH	3	Gen Ed SEARCH	3
MAT 209: Probability and Statistics	3	Gen Ed SEARCH	3
MAT 220: Math/Stats Computer Lab	1	Gen Ed SEARCH	3
Gen Ed SEARCH	3		
TOTAL	18	TOTAL	17
<u>By January 15 of Junior Year: Must meet DPT Progression Requirements: GPA: overall 3.5; Science 3.5</u>			
Semester 7	Credits	Semester 8	Credits
DPT 500 Gross Anatomy & Histology	5	DPT 502 Kinesiology	4
DPT 503 Applied Physiology for PT Practice	5	DPT 516 Musculoskeletal Practice I	3
DPT 504 Practice Management I	3	DPT 520 Neuromuscular PT Practice	3
DPT 508 PT Procedures I	4	DPT 509 Found Clin Exam & Eval	4
DPT 512 Critical Inquiry I	1	DPT 528 Cardiopulmonary PT Practice I	3
DPT 522 Foundations of Clinical Practice	1	DPT 523 Clinical Practice I	3
TOTAL	19	TOTAL	18

Students should expect to take additional coursework (3-6 credits) over the summer or at Winterim in order to complete this Program. A BS in BIOLOGY is awarded at the end of the 4th year. The remainder of the DPT curriculum will result in the earning of the DPT.

ADDITIONAL GRADUATION REQUIREMENTS	RESIDENCY REQUIREMENTS	GRADUATION CREDITS EARNED
___ SRH 101/HNR 160: Search Seminar-Enduring Questions	___ Minimum of 123 non-remedial credits earned	General Education credits earned
___ HUMAN DIVERSITY	___ 45 of last 60 credits	Major and Related Area credits earned
___ SENIOR CAPSTONE	___ Minimum of 12 Alvernia credits in the major	Elective and/or Minor credits earned
___ WRITING ENHANCED COURSE (met w/ CHE 211)	___ Minimum of 9 Alvernia credits in the minor (if applicable)	SUBTOTAL
___ COMMUNITY SERVICE HOURS		SUBTRACT CREDITS EARNED FOR MAT 100, COM 100
___ OVERALL GPA = 3.25 or higher		TOTAL GRADUATION CREDITS
___ GPA IN MAJOR = 3.25 or higher		
___ SCIENCE PA = 3.00 or higher		

Academic Policy on Eligibility for Participation of May Commencement Ceremony: *The academic policy, 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. **Application Deadlines:** August Graduation - December 1; December Graduation - March 1; May Graduation - October 1. Any questions, please call the Registrar's Office.*