

# BACHELOR OF SCIENCE, MAJOR IN INTERDISCIPLINARY HEALTH STUDIES PROGRAM

## Program Overview

The Bachelor of Science (BS) with a major in Interdisciplinary Health Studies (IHS) is awarded by the School of Pharmacy and Health Professions (SPAHP) to students enrolled in an entry-level doctoral program in Pharmacy, Occupational Therapy, or Physical Therapy who do not already hold a bachelor's degree. The program formally integrates pre-professional coursework, completion of the University Magis Core Curriculum, and professional doctoral coursework into a coherent undergraduate degree. The BS in Interdisciplinary Health Studies is not offered as a stand-alone undergraduate major and is awarded only in conjunction with completion of the corresponding professional doctoral degree.

## Degree Conferral

The Bachelor of Science with a major in Interdisciplinary Health Studies is conferred concurrently when the degree requirements are met. Students must submit a formal application for graduation for the BS degree in accordance with deadlines established by the University Registrar.

## University Degree Requirements

In accordance with University policy, all candidates for the Bachelor of Science degree must complete a minimum of 128 semester credit hours, earn a cumulative grade point average of 2.00 or higher, complete at least 48 semester credit hours at Creighton University, complete at least 48 semester credit hours in courses numbered 300 or above, complete the Magis Core Curriculum, and complete all requirements of the Interdisciplinary Health Studies major.

## Magis Core Curriculum

Students complete the Creighton University Magis Core Curriculum consisting of Foundations, Explorations, and Integrations components. Approved pre-professional and professional coursework may be applied toward Magis Core components and Designated course requirements as appropriate. Students should consult with a SPAHP academic advisor to confirm application of coursework toward Magis Core requirements.

## Major Requirements

The Interdisciplinary Health Studies major consists of a defined combination of pre-professional coursework and professional doctoral coursework. Requirements are outlined in the professional pathway tracks.

## Credit-Hour Reconciliation

The following credit-hour reconciliation illustrates how students in the Interdisciplinary Health Studies major meet the University requirement of a minimum of 128 semester credit hours. Actual credit totals may vary depending on specific coursework completed prior to matriculation and Magis Core alignment.

## Occupational Therapy Track

Students in the Occupational Therapy track complete a minimum of 60 semester credit hours of pre-professional coursework prior to

matriculation into the Doctor of Occupational Therapy program. These credits include Magis Core components and prerequisite coursework in anatomy, physiology, psychology, and medical terminology.

Professional coursework applied to the Interdisciplinary Health Studies major includes coursework in occupations and occupational therapy, health conditions, kinesiology, neuroscience, research, physical rehabilitation, policy, and clinical education. A minimum of 68.5 credits from the OTD curriculum are applied to the major.

- Pre-professional and Magis Core coursework: approximately 60 semester credit hours.
- Doctor of Occupational Therapy coursework applied to the BS degree: approximately 68–69 semester credit hours.
- Total applied toward the Bachelor of Science degree: minimum of 128 semester credit hours.

## Pharmacy Track

Students in the Pharmacy track complete a minimum of 63 semester credit hours of pre-professional coursework prior to matriculation into the Doctor of Pharmacy program. These credits include Magis Core components and prerequisite coursework in biology, chemistry, anatomy, economics, and related sciences.

Professional coursework applied to the Interdisciplinary Health Studies major includes biochemistry, pharmacology, pharmaceuticals, pharmacotherapeutics, patient assessment, public health, and pharmacy practice management. A minimum of 65 credits from the PharmD curriculum are applied to the major.

- Pre-professional and Magis Core coursework: approximately 63 semester credit hours.
- Doctor of Pharmacy coursework applied to the BS degree: approximately 65 semester credit hours.
- Total applied toward the Bachelor of Science degree: minimum of 128 semester credit hours.

## Physical Therapy Track

Students in the Physical Therapy track complete a minimum of 90 semester credit hours of pre-professional coursework prior to matriculation into the Doctor of Physical Therapy program. These credits include Magis Core components and prerequisite science coursework.

Professional coursework applied to the Interdisciplinary Health Studies major includes but is not limited to: Exercise physiology and wellness; behavioral and social science; movement science; neuroscience; musculoskeletal physical therapy; physical therapy pharmacotherapeutics; motor control and motor learning; neuromuscular physical therapy; health services; and professional formation courses. A minimum of 39 credits from the DPT curriculum are applied to the major.

- Pre-professional and Magis Core coursework: approximately 90 semester credit hours.
- Doctor of Physical Therapy coursework applied to the BS degree: approximately 38–39 semester credit hours.
- Total applied toward the Bachelor of Science degree: minimum of 128 semester credit hours.

In all tracks, students also satisfy University residency requirements and upper-division credit requirements through enrollment in SPAHP coursework at Creighton University. Credit application is subject to final verification by the Dean's Office during the degree audit clearance process prior to awarding the degree.

## B.S., Interdisciplinary Health Studies - Occupational Therapy Track

Students must complete at least 60 credit hours as a Pre-OT student. These credit hours will include some Magis Core requirements and all prerequisite courses.

### Magis Common Core Curriculum - B.S., Interdisciplinary Health Studies - Occupational Therapy Track

Foundations	Explorations	Integrations	Designated Courses (1 course each)
Contemporary Composition (3 credits)	Understanding Natural Science (BIO 201, BIO 205)	Intersections - OTD Year 1 (Course TBD)	Designated Ethics (OTD 316)
Critical Issues in Human Inquiry (3 credits)	Understanding Social Science (PSY 201)		Designated Oral Communication - OTD Year 1 (Course TBD)
Oral Communication (1 credit)	Global Perspectives in History (3 credits)		Designated Written Communication - OTD Year 1 (Course TBD)
Mathematical Reasoning (2-3 credits)	Literature (3 credits)		Designated Statistical Reasoning (EXS 407 or MTH 361 or PSY 315)
Philosophical Ideas (3 credits)	Ethics (3 credits)		Designated Technology (OTD 423)
The Christian Tradition (3 credits)	The Biblical Tradition (3 credits)		

### Prerequisite Courses that do not meet the Magis Core requirements

Code	Title	Credits
<b>Anatomy</b>		<b>3-4</b>
EXS 111	Fundamentals of Human Anatomy	
or EXS 331	Human Anatomy	
or PHA 310	Human Anatomy for Pre-Professionals	
<b>Psychology</b>		<b>3</b>
PSY Elective 270-higher		
OTD 215	Medical Terminology	1
<b>Total Credits</b>		<b>7-8</b>

## Interdisciplinary Health Studies Major Requirements (Credits 68.5)

Students must complete a minimum of 68 credits from the Doctor of Occupational Therapy curriculum to reach a minimum of 128 credit hours to earn a Bachelor of Science degree. Students who have completed the necessary requirements will be awarded the Bachelor of Science degree in their OTD2 Spring semester.

Code	Title	Credits
IPE 500	Introduction to Collaborative Care	0
OTD 302	Occupations and Occupational Therapy	3
OTD 306	Health Conditions	3
OTD 314	Occupation and Health: Population Perspectives	3
OTD 317	Occupational Therapy in Mental Health	4
OTD 324	Applied Kinesiology	3
OTD 333	Upper Extremity Evaluation and Intervention I	3
OTD 334	Foundations of Research	3
OTD 341	Neuroanatomy	3
OTD 342	Clinical Human Anatomy	4.5
OTD 355	Physical Rehabilitation I: Evaluation	3
OTD 356	Physical Rehabilitation II: Neurorehabilitation	4
OTD 403	Neuro-occupation	2
OTD 406	Management and Program Development	4
OTD 417	Disability and Health Care Policy	3
OTD 433	Upper Extremity Evaluation and Intervention II	3
OTD 434	Research Proposal	3
OTD 435	Occupational Therapy with Children and Youth I	3
OTD 436	Occupational Therapy with Children and Youth II	4
OTD 442	Critical Analysis of Occupational Therapy Practice	3
OTD 457	Physical Rehabilitation III: Interventions and Outcomes	4
OTD 460	Clinical Education Seminar I	1.5
OTD 461	Clinical Education Seminar II	1.5
<b>Total Credits</b>		<b>68.5</b>

## B.S., Interdisciplinary Health Studies - Pharmacy Track

Students must complete at least 63 credit hours as a Pre-Pharmacy student. These credit hours will include some Magis Core requirements and all prerequisite courses.

### Magis Common Core Curriculum - B.S., Interdisciplinary Health Studies - Pharmacy Track

Foundations	Explorations	Integrations	Designated Courses (1 course each)
Contemporary Composition (3 credits)	Understanding Natural Science (BIO 201, BIO 205)	Intersections - PharmD Year 2 (Course TBD)	Designated Ethics - PharmD Year 3 (IPE 530, IPE 531)
Critical Issues in Human Inquiry	Understanding Social Science (PSY 201)		Designated Oral Communication - PharmD Year 2 (Course TBD)

Oral Communication (3 credits)	Global Perspectives in History (3 credits)	Designated Written Communication - PharmD Year 2 (Course TBD)
Mathematical Reasoning (3 credits)	Literature (3 credits)	Designated Statistical Reasoning - PharmD Year 3 (PHA 350)
Philosophical Ideas (3 credits)	Ethics (3 credits)	Designated Technology - PharmD Year 1 (PHA 321)
The Christian Tradition (3 credits)	The Biblical Tradition (3 credits)	

### Prerequisite Courses that do not meet the Magis Core requirements

Code	Title	Credits
BIO 202	General Biology: Cellular and Molecular	3
BIO 206	General Biology: Cellular and Molecular Laboratory	1
CHM 203	General Chemistry I	3
CHM 204	General Chemistry I Laboratory	1
CHM 205	General Chemistry II	3
CHM 206	General Chemistry II Laboratory	1
CHM 321	Organic Chemistry I	3
CHM 322	Organic Chemistry I Laboratory	1
CHM 323	Organic Chemistry II	3
CHM 324	Organic Chemistry II Laboratory	1
PHA 310 or EXS 331	Human Anatomy for Pre-Professionals Human Anatomy	3
ECO 203 or ECO 205	Introductory Microeconomics Introductory Macroeconomics	3
<b>Total Credits</b>		<b>26</b>

### Interdisciplinary Health Studies Major Requirements (Credits 65)

Students must complete a minimum of 68 credits from the Doctor of Occupational Therapy curriculum to reach a minimum of 128 credit hours to earn a Bachelor of Science degree. Students who have completed the necessary requirements will be awarded the Bachelor of Science degree after 5 years in their PharmD3 Spring semester.

Code	Title	Credits
<b>Doctor of Pharmacy Curriculum</b>		
Required courses:		
IPE 500	Introduction to Collaborative Care	0
MIC 541	Medical Microbiology and Immunology	3
PHA 301	Principles of Biochemistry for Pharmacy	3
PHA 312	Professional Development and Experience I	1.5
PHA 313	Calculations in Pharmacy Practice	2
PHA 314	Professional Development and Experience II	1.5
PHA 317	Pharmaceutics I: Physiochemical Principles of Drugs	3

PHA 320	Communication Skills	2
PHA 326	Patient Assessment	2
PHA 337	The Chemical Basis of Drug Action I	3
PHA 338	Professional Development Seminar III	1
PHA 339	Pharmaceutics II - Pharmaceutical Dosage Forms and Drug Delivery Systems	3
PHA 341	Pharmacology II	4
PHA 342	Pharmacology II	4
PHA 351	Foundations of Public Health	2
PHA 406	Human Pathophysiology	3
PHA 413	Pharmacotherapeutics I: Focus on Nonprescription Products & Self-Care	5
PHA 414	Pharmacotherapeutics II	6
PHA 415	Pharmacotherapeutics III	6
PHA 425	Pharmacotherapeutics III Case Studies	1
PHA 442	Pharmacy Practice Management	3
PHA 443	Basic Pharmacokinetics	2
PHA 447	Chemical Basis of Drug Action II	3
PHA 470	Pharmacy-Based Immunization Delivery	1
<b>Total Credits</b>		<b>65</b>

### B.S., Interdisciplinary Health Studies - Physical Therapy Track

Students must complete at least 90 credit hours as a Pre-PT student. These credit hours will include some Magis Core requirements and all prerequisite courses.

Students must complete 18 credits of upper-level classes in one field of study.

### Magis Common Core Curriculum - B.S., Interdisciplinary Health Studies - Physical Therapy Track

Foundations	Explorations	Integrations	Designated Courses (1 course each)
Contemporary Composition (3 credits)	Understanding Natural Science (BIO 201, BIO 205)	Intersections - DPT Year 1 (Course TBD) - Not a UG requirement	Designated Ethics - DPT Year 3 (PTD 601)
Oral Communication (1 credit)	Global Perspectives in History (3 credits)		Designated Written Communication - DPT Year 1 (Course TBD)
Mathematical Reasoning (3 credits)	Literature (3 credits)		Designated Statistical Reasoning (BIO 411 or EXS 407)
Philosophical Ideas (3 credits)	Ethics (3 credits)		Designated Technology - DPT Year 2 (PTD 522)

The Christian Tradition (3 credits)	The Biblical Tradition (3 credits)
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PTD 608	Professional Formation III	1
<b>Total Credits</b>		<b>38</b>

### Prerequisite Courses that do not meet the Magis Core requirements (Credits 30)

Code	Title	Credits
<b>Required courses:</b>		
BIO 202	General Biology: Cellular and Molecular	3
BIO 206	General Biology: Cellular and Molecular Laboratory	1
CHM 203	General Chemistry I	3
CHM 204	General Chemistry I Laboratory	1
CHM 205	General Chemistry II	3
CHM 206	General Chemistry II Laboratory	1
PHY 201	General Physics for the Life Sciences	3
PHY 202	General Physics for the Life Sciences II	3
PHY 205	General Physics Laboratory I	1
PHY 206	General Physics Laboratory II	1
PHA 310 & PHA 311	Human Anatomy for Pre-Professionals and Human Anatomy Lab for Pre-Professionals	4
or EXS 320	Human Physiology	
BIO 449	Physiology	3
or EXS 320	Human Physiology	
PSY Elective 270-higher		3
<b>Total Credits</b>		<b>30</b>

### Interdisciplinary Health Studies Major Requirements (Credits 38)

Students must complete a minimum of 38 credits from the Doctor of Physical Therapy curriculum to reach a minimum of 128 credit hours to earn a Bachelor of Science degree. Students who have completed the necessary requirements will be awarded the Bachelor of Science degree after 5 years in their DPT3 Spring semester.

Code	Title	Credits
<b>Doctor of Physical Therapy Curriculum</b>		
IPE 500	Introduction to Collaborative Care	0
PTD 501	Exercise Physiology and Wellness	2
PTD 503	Behavioral and Social Science	2
PTD 507	Emergency Medical Responder	2
PTD 508	Introduction to Professional Formation	1
PTD 510	Movement Science	4
PTD 511	Health Conditions for the Physical Therapist	3
PTD 513	Cardiovascular and Pulmonary Physical Therapy I	3
PTD 518	Professional Formation I	1
PTD 520	Neuroscience	3
PTD 521	Integumentary Physical Therapy	2
PTD 522	Musculoskeletal Physical Therapy I	2
PTD 528	Professional Formation II	1
PTD 530	Physical Therapy Pharmacotherapeutics	2
PTD 531	Pain	2
PTD 533	Motor Control and Motor Learning	2
PTD 534	Neuromuscular Physical Therapy I	3
PTD 600	Health Services	2