

ALLIED HEALTH, B.S.

Overview

Mission

The mission of the Bachelor of Science in Allied Health (<https://www.biola.edu/degrees/u/allied-health-bs/>) is to provide an academically stimulating and challenging environment for intellectual and spiritual growth, preparing students to pursue careers and advanced degrees in allied health fields.

Degree Program

A Bachelor of Science in Allied Health degree is offered upon completion of the University baccalaureate and major requirements. The major offers two concentrations: General Health and Pre-Occupational Therapy.

Learning Outcomes

Program Learning Outcomes

Upon completion of the Bachelor of Science in Allied Health, students will be able to:

1. Apply the scientific method in research (ULO 3).
2. Explain the scientific basis of patient evaluation and treatment decisions in a variety of healthcare settings (ULO 1).
3. Distinguish the unique and integrated function of human organs and body systems (ULO 1).
4. Integrate faith and scientific knowledge to practice science with integrity, steward creation, and articulate the merit of their worldview (ULO 2).

Each Program Learning Outcome (PLO) listed above references at least one of the University Learning Outcomes (ULO 1, 2, 3), which may be found in the General Information section (<https://catalog.biola.edu/general-information/#UniversityLearningOutcomes>) of this catalog.

Admission Recommendations

Admission Recommendations

Recommended high school courses are: one year of biology, one year of chemistry, three years of mathematics, and two years of foreign language. Advanced Placement (AP) science courses may not be used to fulfill science requirements for this degree.

Program Requirements

Graduate/Professional School Requirements

Students should be aware that most graduate programs and many professional schools require an overall minimum GPA of 3.0 and that grades of C or better were earned for all science courses. In addition, they will not accept Advanced Placement science credit to fulfill the entrance requirements.

Curriculum Requirements

Code	Title	Credits
Allied Health majors meet the Core Curriculum requirement of 9 credits in science, mathematics, and behavioral science within the major. The foreign language requirement is met by two years of high school study in the same language or four credits of college foreign language. PHIL 215 is strongly recommended and meets the Philosophy Core Curriculum requirement.		
Program Courses		
BIOS 112 & BIOS 114	Fundamentals of Organismal Biology and Fundamentals of Organismal Biology Laboratory	4
BIOS 200	Sophomore Writing Seminar	1
BIOS 254	Human Anatomy	4
BIOS 281 or BIOS 381	Physiology Advanced Physiology	4
BIOS 346	Medical Terminology	1
BIOS 355	Environmental Health: An Ecological Perspective	4
CHEM 107	Introduction to Chemistry ¹	3
CHEM 105 & CHEM 115 or CHEM 120 & CHEM 121	General Chemistry I and General Chemistry I Lab Principles of Organic and Biochemistry and Principles of Organic and Biochemistry Lab	4
MATH 210 or MATH 318	Introduction to Probability and Statistics Biostatistics	3
PSYC 200	Introduction to Psychology ²	3
Program Course Requirements: 28-31 credits		
Select a Concentration detailed below		38
Core Curriculum Requirements (https://catalog.biola.edu/academic-policies/undergraduate-core-curriculum-program/)		54-58
Total Credits		120-127

¹ CHEM 107 is waived for students who meet the qualifications to enter CHEM 105 or CHEM 120. See the current Placement Options for CHEM 105 (<https://www.biola.edu/academic-advising/incoming/placement-exams/chemistry-105/>) or CHEM 120 (<https://www.biola.edu/academic-advising/incoming/placement-exams/chemistry-120/>) for more information.

² Fulfills the Behavioral Science Core Curriculum requirement.

Concentrations

General Health

Code	Title	Credits
Concentration Courses		
BIOS 111 & BIOS 113	Fundamentals of Cellular and Molecular Biology and Fundamentals of Cellular and Molecular Biology Laboratory	4
BIOS 282	Microbiology	4

BIOS 315	Nutrition and Metabolism	3
KNES 200	Public Health Principles and Practice	3
PSYC 309	Introduction to Psychopathology	3
PSYC 320	Developmental Psychology: Lifespan	3
SOCI 220	Introduction to Sociology	3
Electives		
Select 15 credits from the following (at least 10 credits must be upper-division):		15
BIOS 140	Introduction to Occupational Therapy	
BIOS 302	Vertebrate Biology	
BIOS 310	Prosection	
BIOS 311	Neurobiology	
BIOS 312	Cell and Molecular Biology ¹	
BIOS 316	Nutrition and Metabolism Lab	
BIOS 332	Genetics ¹	
BIOS 402	Parasitology	
BIOS 431	Developmental Biology	
BIOS 440	Topics in Advanced Biology	
BIOS 445	Immunology	
BIOS 448	Design of Life	
BIOS 455	General Virology	
BIOS 460	Clinical Observation Practicum	
BIOS 480	Internship	
BIOS 490	Directed Research	
COMM 235 or INCS 231	Interpersonal Communication Intercultural Competence & Diversity in the Global Workplace	
KNES 300 or KNES 305 or KNES 310 or KNES 320 or KNES 340 or KNES 355	Health Education and Health Promotion Principles of Epidemiology Community and Global Health Health Behavior and Health Promotion Health Policy and Ethics Health Care Systems	
KNES 301 or KNES 337 or KNES 408	Kinesiology Exercise in Health and Disease Motor Learning	
PHSC 111 & PHSC 117 or PHSC 100 & PHSC 117 or PHSC 132 & PHSC 134	Physics I and Physics I Laboratory ² Physics I with Foundations and Physics I Laboratory General Physics I: Mechanics and Heat and General Physics I Laboratory	

Total Credits**38**

prerequisite for PHSC 132 is MATH 150 or an Advanced Placement (AP) Calculus AB or BC score of 4 or higher.

Pre-Occupational Therapy

Code	Title	Credits
Concentration Courses		
BIOS 140	Introduction to Occupational Therapy	3
BIOS 240	Occupational Therapy Conditions	3
BIOS 311	Neurobiology	3
BIOS 340	Assessment in Occupational Therapy	3
BIOS 344	Practices in Occupational Therapy Interventions	3
BIOS 460	Clinical Observation Practicum	1
BIOS 475	Occupational Therapy Capstone	1
KNES 301	Kinesiology	3
KNES 408 or KNES 337	Motor Learning Exercise in Health and Disease	3
PSYC 309	Introduction to Psychopathology	3
PSYC 320	Developmental Psychology: Lifespan	3
SOCI 220	Introduction to Sociology	3
Electives		
Select 6 credits from the following:		6
BIOS 282	Microbiology	
BIOS 302	Vertebrate Biology	
BIOS 310	Prosection	
BIOS 315	Nutrition and Metabolism ¹	
BIOS 316	Nutrition and Metabolism Lab ¹	
BIOS 332	Genetics ¹	
BIOS 380	Advanced Microbiology	
BIOS 402	Parasitology ¹	
BIOS 431	Developmental Biology ¹	
BIOS 440	Topics in Advanced Biology	
BIOS 445	Immunology ¹	
BIOS 448	Design of Life	
BIOS 455	General Virology ¹	
BIOS 480	Internship	
BIOS 490	Directed Research	

Total Credits**38**

¹ Additional course(s), which are not program or concentration requirements, are required as prerequisites. See department for advising.

Course Sequence

NOTE: The course sequence table is designed by the major department and is one way that the classes will work out properly in sequence for your major. However, there are alternative or flexible ways to rotate some of the classes within the same year/level and sometimes between year levels. Please contact your major department advisor to discuss flexible alternatives in scheduling the sequence of your classes.

¹ Additional course(s), which are not program or concentration requirements, are required as prerequisites. See department for advising.

² All students who do not meet one of the Physics 111 Placement Options (<https://www.biola.edu/academic-advising/incoming/placement-exams/physics/>) must enroll in PHSC 100. The

Taking coursework during the summer session may also be an option to accelerate your degree path.

See Core Curriculum Program section (<https://catalog.biola.edu/academic-policies/undergraduate-core-curriculum-program/>) for a list of approved Core Curriculum courses.

- General Health (p. 3)
- Pre-Occupational Therapy (p. 3)

Allied Health, B.S. General Health (BAGH)

First Year		
Fall	Credits Spring	Credits
BBST 103 or 165	3 BBST 103 or 165	3
BIOS 112 & BIOS 114	4 BIOS 111 & BIOS 113	4
ENGL 112	3 BIOS 282	4
CHEM 107 (if needed per department)	3 CHEM 105 & CHEM 115 (or CHEM 120 & CHEM 121)	4
GNST 102	1 PSYC 200	3
Foreign Language (see Core Curriculum)	4	
	18	18

Second Year		
Fall	Credits Spring	Credits
BBST 209 or 210	3 BBST 209 or 210	3
BBST 251	3 BIOS 281 or 381	4
BIOS 200	1 KNES 107	1
BIOS 254	4 KNES 200	3
PHIL 215 (strongly recommended, fulfills Core Curriculum Philosophy requirement)	3 PSYC 309 or 320	3
SOCI 220	3 Literature (see Core Curriculum)	3
	17	17

Third Year		
Fall	Credits Spring	Credits
BBST 365	3 BBST 354	3
BIOS 315	3 BIOS 346	1
BIOS 355	4 Major Elective	3
MATH 210 or 318	3 Major Elective (upper-division)	3
PSYC 309 or 320	3 ENGL 313	3
	KNES Activity (see Core Curriculum)	1
	Writing Competency Requirement (https://catalog.biola.edu/academic-policies/undergraduate-requirements-policies/#WritingCompetencyRequirement)	
	Graduation Application due in Registrar's Office	
	16	14

Fourth Year		
Fall	Credits Spring	Credits
BBST 300/400 Bible Elective	3 BBST 300/400 Bible Elective	3
Major Elective (upper-division)	3 BBST 465	3
Major Elective (upper-division)	3 Major Elective (upper-division)	3
HIST 200, 201, or POSC 225	3 Fine Arts (see Core Curriculum)	3

Communication (see Core Curriculum)	3	
	15	12

Total Credits 127

Allied Health, B.S. Pre-Occupational Therapy (BAOT)

First Year		
Fall	Credits Spring	Credits
BBST 103 or 165	3 BBST 103 or 165	3
BIOS 112 & BIOS 114	4 BIOS 240	3
BIOS 140	3 CHEM 105 & CHEM 115 (or CHEM 120 & CHEM 121)	4
ENGL 112	3 PSYC 200	3
GNST 102	1 Foreign Language (see Core Curriculum)	4
CHEM 107 (if needed per Department)	3 KNES Activity (see Core Curriculum)	1
	17	18

Second Year		
Fall	Credits Spring	Credits
BBST 209 or 210	3 BBST 209 or 210	3
BBST 251	3 BIOS 281 or 381	4
BIOS 200	1 KNES 107	1
BIOS 254	4 PSYC 309 or 320	3
PHIL 215 (strongly recommended, fulfills Core Curriculum Philosophy requirement)	3 Literature (see Core Curriculum)	3
SOCI 220	3	
	17	14

Third Year		
Fall	Credits Spring	Credits
BBST 365	3 BBST 354	3
BIOS 340	3 BIOS 311	3
BIOS 355	4 BIOS 344	3
MATH 210 or 318	3 BIOS 346	1
PSYC 309 or 320	3 ENGL 313	3
	KNES 301	3
	Writing Competency Requirement (https://catalog.biola.edu/academic-policies/undergraduate-requirements-policies/#WritingCompetencyRequirement)	
	Graduation Application due in Registrar's Office	
	16	16

Fourth Year		
Fall	Credits Spring	Credits
BBST 300/400 Bible Elective	3 BBST 300/400 Bible Elective	3
BIOS 460	1 BBST 465	3
BIOS Elective	3 BIOS 475	1
HIST 200, 201, or POSC 225	3 BIOS Elective	3
KNES 337 or 408	3 Fine Arts (see Core Curriculum)	3
Communication (see Core Curriculum)	3	
	16	13

Total Credits 127

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- General Health (p. 4)
- Pre-Occupational Therapy (p. 4)

Allied Health, B.S. General Health (BAGH)

For students who enroll in more than 18 semester credits, please note the additional cost per credit in the catalog's Financial Information section (<https://catalog.biola.edu/financial-information/tuition-information/>).

First Year			
Fall	Credits	Spring	Credits
HNRS 101	4	HNRS 105	4
HNRS 102	4	HNRS 106	4
BIOS 112 & BIOS 114	4	BIOS 111 & BIOS 113	4
GNST 102	1	CHEM 105 & CHEM 115 (or CHEM 120 & CHEM 121)	4
CHEM 107 (if needed per Department)	3		
	16		16
Second Year			
Fall	Credits	Spring	Credits
HNRS 210	4	HNRS 230	4
HNRS 215	4	HNRS 231	4
BIOS 254	4	BIOS 200	1
BIOS 282	4	BIOS 281 or 381	4
Foreign Language (see Core Curriculum)	4	PSYC 200	3
	20		16
Third Year			
Fall	Credits	Spring	Credits
HNRS 324	4	HNRS 337	4
HNRS 326	2	HNRS 339	2
BIOS 315	3	BIOS 346	1
Major Elective	3	Major Elective (upper-division)	3
KNES 107	1	KNES 200	3
PSYC 309 or 320	3	PSYC 309 or 320	3
Writing Competency Requirement (https://catalog.biola.edu/academic-policies/undergraduate-requirements-policies/#WritingCompetencyRequirement)			
	16		16
Fourth Year			
Fall	Credits	Spring	Credits
HNRS 443	4	HNRS 458	4
BIOS 460	1	BBST 465	3
BIOS Elective	3	BIOS 475	1
KNES 337 or 408	3	BIOS Elective	3
SOCI 220	3	MATH 210 or 318	3
		KNES Activity (see Core Curriculum)	1
		PSYC 309 or 320	3
	14		18
Total Credits 131			

BIOS 355	4	BBST 465	3
Major Elective (upper-division)	3	Major Elective (upper-division)	3
SOCI 220	3	Major Elective (upper-division)	3
		MATH 210 or 318	3
		KNES Activity (see Core Curriculum)	1
	14		17

Total Credits 131

Allied Health, B.S. Pre-Occupational Therapy (BAOT)

First Year			
Fall	Credits	Spring	Credits
HNRS 101	4	HNRS 105	4
HNRS 102	4	HNRS 106	4
BIOS 112 & BIOS 114	4	BIOS 240	3
BIOS 140	3	PSYC 200	3
GNST 102	1	Foreign Language (see Core Curriculum)	4
	16		18
Second Year			
Fall	Credits	Spring	Credits
HNRS 210	4	HNRS 230	4
HNRS 215	4	HNRS 231	4
BIOS 254	4	BIOS 200	1
CHEM 107 (if needed per Department)	3	BIOS 281 or 381	4
		KNES 107	1
		CHEM 105 & CHEM 115 (or CHEM 120 & CHEM 121)	4
	15		18
Third Year			
Fall	Credits	Spring	Credits
HNRS 324	4	HNRS 337	4
HNRS 326	2	HNRS 339	2
BIOS 340	3	BIOS 311	3
BIOS 355	4	BIOS 344	3
PSYC 309 or 320	3	BIOS 346	1
Writing Competency Requirement (https://catalog.biola.edu/academic-policies/undergraduate-requirements-policies/#WritingCompetencyRequiremer)		KNES 301	3
	16		16
Fourth Year			
Fall	Credits	Spring	Credits
HNRS 443	4	HNRS 458	4
BIOS 460	1	BBST 465	3
BIOS Elective	3	BIOS 475	1
KNES 337 or 408	3	BIOS Elective	3
SOCI 220	3	MATH 210 or 318	3
		KNES Activity (see Core Curriculum)	1
		PSYC 309 or 320	3
	14		18
Total Credits 131			