

SCHOOL OF NURSING AND ALLIED HEALTH SCIENCES HEALTH SCIENCES

FACULTY

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<https://bulldog.swosu.edu/academics/allied-health/health-science/index.php>

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GOALS

The Bachelor of Science in Health Sciences is a curriculum designed to meet the following goals:

1. To provide students with an adequate background to enter graduate level programs in the health sciences.
2. To provide students seeking admission into professional health programs a curriculum designed to meet all prerequisites. Such programs shall include, but are not limited to, Medicine, Physician's Associate, Physical Therapy, Occupational Therapy, Clinical Dietetics, Radiology, Dentistry, Dental Hygiene, Optometry and others.
3. To provide students a bachelor's degree track while completing prerequisites and applying for technical programs at the Associate Degree level. Such programs include Physical Therapist Assistant, Occupational Therapy Assistant, Radiological Technician, and Medical Laboratory Technician.

PROGRAMS OF STUDY

Major: Health Sciences

Minor: Suggested Choices: Business, Chemistry, Health & Wellness, Multidisciplinary, & Psychology

NOTE: Certain minors may be required for specialized programs.

GENERAL INFORMATION

The Bachelor of Science in Health Sciences is a degree plan that provides students interested in the Health Sciences and/or Health Professions an opportunity to pursue dedicated educational opportunities in the health care field.

The major requirements for the Health Sciences degree include courses that are important to anyone planning a career in the health care industry. The courses serve to provide specific health related training which will supplement the specialized education the students will receive in their chosen professional programs. The program also includes an experienced based internship in an approved health care facility. These types of experiences are essential in understanding the complexity and issues that confront modern health care.

The health care industry is one of the major employers of this decade and we are excited about continuing to offer this educational opportunity to the students of Southwestern Oklahoma State University.

HEALTH CAREER PLANNING

Professional Programs in health care require designated prerequisite college courses and in some cases specific qualifying exams, such as the MCAT, GRE, or other exams for admission. Personal interviews and demonstrated service activities may also be considered for admission.

Questions about specific health care programs should be directed to the Allied Health Sciences Administrative Assistant for advisement referrals.

Course sequences and specific requirements are available for many professional areas, such as pre-medicine, pre-dental, pre-optometry, pre-physical therapy, pre-dental hygiene, pre-radiology, pre-physician associates, pre-nutritional sciences and others. Please contact the office of Allied Health Sciences (Science Building, Room 206) for degree plan resources.

BACHELOR OF SCIENCE HEALTH SCIENCES MAJOR (HLSCI.BS)

GENERAL EDUCATION (Min. 40 hours)

Courses that are required. *Courses that are recommended.*

Communication 9

ENGL	1113	English Composition I
ENGL	1213	English Composition II
COMM	1313	Introduction to Public Speaking OR
TECH	3143	Technical Presentations (if permitted by degree program)

Quantitative Reasoning 3

Select one course.

MATH	1143	Mathematical Concepts
MATH	1153	Mathematical Applications
MATH	1193	Elementary Statistics
MATH	1313	Functions and Modeling
MATH	1513	College Algebra

or a higher numbered math course

U. S. History 3

Select one course.

HIST	1043	U.S. History to 1877
HIST	1053	U.S. History since 1877

American Government 3

POLSC	1103	American Government & Politics
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Science 7-8

Select one course from Life Science and one course from Physical Science. One Science course must be a lab science.

Life Science 3-4

BIOL	1004	Biological Concepts w/Lab
BIOL	1013	Current Issues in Biology
BIOL	1054	Principles of Biology I w/Lab

Physical Science 3-4

ASTRO	1904	Astronomy
CHEM	1004	General Chemistry w/Lab
GEOL	1934	Physical Geology w/Lab
PHY	1044	Basic Physics I w/Lab
PHY	1063	General Physics (or a higher numbered chemistry or physics course)
SCI	1501	Concepts of Physical Science Lab
SCI	1513	Conc of Phy Science (can be taken w/wo lab)

Humanities and Social Science 12

Select one course from each sub-category and one additional course from any subcategory below.

Humanities 3

GEOG	1103	World Cultural Geography
HIST	1033	World History
HUM	1103	Introduction to Humanities

Fine Arts 3

ART	1223	Art Survey
COMM	1263	Introduction to Theatre
LIT	2333	Introduction to Film
LIT	2413	Introduction to Literature
MUSIC	1013	Introduction to Music I
MUSIC	1103	Music and Culture (Music majors only)
MUSIC	1123	History of Rock-n-Roll
PHILO	1453	Introduction to Philosophy

Social and Human Sciences 3

ASL	2163	American Sign Language I
ECONO	2263	Intro to Macroeconomics
ECONO	2363	Intro to Microeconomics
ENTRP	1123	Intro to Business
FINAN	2113	Personal Financial Planning
ITAL	1004	Elementary Italian I
KINES	1133	Wellness Conc & Exercise Applications
LATIN	1054	Elementary Latin I (or higher number)
PSYCH	1003	General Psychology
SOCIO	1003	Introduction to Sociology
SPAN	1054	Elementary Spanish I (or higher number)
TECH	1223	Technology and Society

Computer Proficiency 0-3

COMSC 1023 Computers and Info Access, or a department-assigned course which satisfies the Computer Proficiency in the major, or the SWOSU Proficiency Exam, or HS course clearly defined to meet our goals.

GE Elective 0-3

Students who meet the computer proficiency by exam or HS course must choose an additional GE course from any category.

HEALTH SCIENCES MAJOR

Required: Allied Health Sciences Core 34

ALHLT	1401	Allied Health Careers
ALHLT	2453	Medical Terminology
ALHLT	3043	Health Statistics
ALHLT	3183	Cultural Competence in Healthcare
ALHLT	3193	U.S. Health Care System OR
ALHLT	1323	Intro to Public Health
ALHLT	3933	Healthcare Management
ALHLT	3963	Healthcare Project Mngmt
ALHLT	4043	Healthcare Law & Ethics
ALHLT	4081	Health Science Senior Summit
ALHLT	4093	Epidemiology
BIOL	3704	Human Anatomy
BIOL	3904	Human Physiology

Electives 20

ALHLT	2323	Health Promotion
ALHLT	2333	Intro to Environmental Health
ALHLT	2633	Cardiac and Emergency Care
ALHLT	3053	Advanced Medical Terminology
ALHLT	3073	Diagnostics, Drugs & Therapeutics
ALHLT	4074	Pathophysiology
ALHLT	4123	Healthcare Revenue Cycle
BIOL	1254	Principles of Biology II
BIOL	3254	Genetics
BIOL	4213	Immunology
BIOL	4355	Microbiology
HIM	3122	Introduction to the Electronic Health Record
HIM	3363	Healthcare Compliance & Risk Management
HIM	4113	Healthcare Quality Measures
KINES	1153	Nutrition
KINES	2212	First Aid
PHY	1044	Basic Physics I
PHY	1054	Basic Physics II
PSYCH	3213	Developmental Psychology
TECH	3143	Technical Presentations

Minor 18-22

Free Electives (8 hrs if 18 hour minor chosen) 120

Students should visit with their advisor prior to enrollment to assure proper sequencing of courses.

(Specific prerequisites for professional health programs may vary and will be handled by personal advisement.)

REGULATIONS PERTAINING TO GRADUATION

Minimum Credit Hours for Graduation	120
Minimum credit hours in general education	40
Minimum credit hours in upper-division (3000/4000 courses)	40
Min. Credit Hours (3000/4000 courses) in major completed at SWOSU8	
Minimum credit hours at SWOSU (15 of the last 30)	30
Minimum Grade Point Average in all coursework	2.25
Minimum Grade Point Average in major	2.25

HEALTH SCIENCES (HLSCI.BS) Suggested Course Sequence*

FIRST YEAR

FIRST SEMESTER	SECOND SEMESTER
1051 SWOSUConnect** (1) 1004 Biological Concepts (4) OR 1054 Principles of Bio I w/lab 1113 English Comp I (3) 1401 Allied Health Careers (1) 1513 College Algebra (3) xxx3 Humanities GE (3)	1003 General Psychology (3) 1004 Gen. Chemistry OR 1203 Chemistry I & 1252 Chemistry I Lab (4-5) 1023 Comp/Info Access (3) OR replacement if proficiency met 1213 English Comp II (3) 2453 Medical Terminology (3)
Total (15)	Total (16-17)

SECOND YEAR

FIRST SEMESTER	SECOND SEMESTER
1043/1053 U.S. History (3) 3183 Cultural Competence in Healthcare (3) 3193 The U.S. Healthcare System (3) 3704 Human Anatomy (4) xxx3 Course in Minor (3) English Proficiency Exam***	1103 American Government (3) 1313 Intro to Public Speaking (3) 3904 Human Physiology w/lab (4) 4043 Healthcare Law & Ethics (3) xxx3 Course in Minor (3)
Total (16)	Total (16)

THIRD YEAR

FIRST SEMESTER	SECOND SEMESTER
3043 Health Statistics w/lab (3) 3933 Healthcare Management (3) xxx3 Course in Minor (3) xxx3 Humanities GE (3) Major Elective (3-4)	3963 Healthcare Project Management (3) 4093 Epidemiology (3) xxx3 Course in Minor (3) xxx3 Free Elective or Professional Requirement (3) Major Elective (3-4)
Total (15-16)	(Total 15-16)

FOURTH YEAR

FIRST SEMESTER	SECOND SEMESTER
4081 Health Science Senior Summit (1) xxx3 Course in Minor (3) Major Electives (9-12)	xxx3 Course in Minor (3) xxx2 Free Elective or Professional Requirement (2) xxx2-3 GE Elec from I/II/or IV (2-3) xxx3 Free Elective or Professional Requirement (3) Major Elective (3)
Total (13-16)	Total (13-14)

*Students should consider Summer School to lighten load.

**First time entering SWOSU students need to take 1051 SWOSUConnect.

***If applicable. See English Proficiency Program under the General Academic Information Section.

Note: The above is for the generic Health Sciences Major. Students attempting admission to a specific professional program should follow the degree plan provided for that discipline.

BACHELOR OF APPLIED SCIENCE IN HEALTH SCIENCE (HLSCI.BAS)

GENERAL EDUCATION (Min. 40 hours)

Courses that are required. *Courses that are recommended.*

Communication..... 9

ENGL	1113	English Composition I
ENGL	1213	English Composition II
COMM	1313	Introduction to Public Speaking OR
TECH	3143	Technical Presentations (<i>if permitted by degree program</i>)

Quantitative Reasoning 3

Select one course.

MATH	1143	Mathematical Concepts
MATH	1153	Mathematical Applications
MATH	1193	Elementary Statistics
MATH	1313	Functions and Modeling
MATH	1513	College Algebra

or a higher numbered math course

U. S. History 3

Select one course.

HIST	1043	U.S. History to 1877
HIST	1053	U.S. History since 1877

American Government..... 3

POLSC	1103	American Government & Politics
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Science..... 7-8

Select one course from Life Science and one course from Physical Science. One Science course must be a lab science.

Life Science.....3-4

BIOL	1004	Biological Concepts w/Lab
BIOL	1013	Current Issues in Biology
BIOL	1054	Principles of Biology I w/Lab

Physical Science.....3-4

ASTRO	1904	Astronomy
CHEM	1004	General Chemistry w/Lab
GEOL	1934	Physical Geology w/Lab
PHY	1044	Basic Physics I w/Lab
PHY	1063	General Physics (or a higher numbered chemistry or physics course)
SCI	1501	Concepts of Physical Science Lab
SCI	1513	Conc of Phy Science (can be taken w/wo lab)

Humanities and Social Science12

Select one course from each sub-category and one additional course from any subcategory below.

Humanities 3

GEOG	1103	World Cultural Geography
HIST	1033	World History
HUM	1103	Introduction to Humanities

Fine Arts..... 3

ART	1223	Art Survey
COMM	1263	Introduction to Theatre
LIT	2333	Introduction to Film
LIT	2413	Introduction to Literature
MUSIC	1013	Introduction to Music I
MUSIC	1103	Music and Culture (<i>Music majors only</i>)
MUSIC	1123	History of Rock-n-Roll
PHILO	1453	Introduction to Philosophy

Social and Human Sciences..... 3

ASL	2163	American Sign Language I
ECONO	2263	Intro to Macroeconomics
ECONO	2363	Intro to Microeconomics
ENTRP	1123	Intro to Business
FINAN	2113	Personal Financial Planning
ITAL	1004	Elementary Italian I
KINES	1133	Wellness Conc & Exercise Applications
LATIN	1054	Elementary Latin I (or higher number)
PSYCH	1003	General Psychology
SOCIO	1003	Introduction to Sociology
SPAN	1054	Elementary Spanish I (or higher number)
TECH	1223	Technology and Society

Computer Proficiency.....0-3

COMSC 1023 Computers and Info Access, or a department-assigned course which satisfies the Computer Proficiency in the major, or the SWOSU Proficiency Exam, or HS course clearly defined to meet our goals.

GE Elective.....0-3

Students who meet the computer proficiency by exam or HS course must choose an additional GE course from any category.

APPLIED HEALTH SCIENCE MAJOR

Required: Allied Health Science Core.....35

ALHLT	2453	Medical Terminology
ALHLT	3043	Health Statistics
ALHLT	3073	Diagnostics, Drugs, & Therapeutics
ALHLT	3183	Cultural Competence in Healthcare
ALHLT	3193	U.S. Health Care System OR
ALHLT	1323	Intro to Public Health
ALHLT	3933	Healthcare Management
ALHLT	3963	Healthcare Project Management
ALHLT	4043	Healthcare Law & Ethics
ALHLT	4093	Epidemiology
BIOL	3704	Human Anatomy
BIOL	3904	Human Physiology OR
KINES	4234	Exercise Physiology

Required Ancillary 6

HIM	3363	Healthcare Compliance & Risk Management
HIM	4113	Healthcare Quality Measures

Electives 9

ALHLT	1401	Allied Health Careers
ALHLT	2323	Health Promotion
ALHLT	2333	Intro to Environmental Health
ALHLT	2633	Cardiac and Emergency Care
ALHLT	3053	Advanced Medical Terminology
ALHLT	4074	Pathophysiology
ALHLT	4123	Healthcare Revenue Cycle
BIOL	1054	Principles of Biology I
BIOL	1254	Principles of Biology II
BIOL	4355	Microbiology
CHEM	1203	General Chemistry I
CHEM	1252	General Chemistry I Lab
CHEM	1303	General Chemistry II
CHEM	1352	General Chemistry II Lab
HIM	3122	Introduction to the Electronic Health Record
KINES	1153	Nutrition
KINES	2212	First Aid
KINES	2502	Care and Prevention of Athletic Injuries
KINES	3443	Kinesiology and Anatomy
KINES	4234	Exercise Physiology
PHY	1044	Basic Physics I
PHY	1054	Basic Physics II
PSYCH	3213	Developmental Psychology
PSYCH	3323	Abnormal Psychology

Health Specialization Hours** 30

****A block of 30 credit hours will be given to BAS students for their AAS specialized field.**

Total Credit Hours 120

REGULATIONS PERTAINING TO GRADUATION

Minimum Credit Hours for Graduation	120
Minimum credit hours in general education	40
Minimum credit hours in upper-division (3000/4000 courses)	40
Min. Credit Hours (3000/4000 courses) in major completed at SWOSU	8
Minimum credit hours at SWOSU (15 of the last 30)	30
Minimum Grade Point Average in all coursework	2.25
Minimum Grade Point Average in major	2.25

**BACHELOR OF APPLIED SCIENCE
IN HEALTH SCIENCE (HLSCL.BAS)
Suggested Course Sequence**

FIRST YEAR

FIRST SEMESTER	SECOND SEMESTER
1051 SWOSUConnect* (1) 1003 General Psychology (3) 1004 Biological Concepts w/lab (4) 1043/1053 U.S. History (3) 1113 English Comp I (3) 1513 College Algebra (3) 2453 Medical Terminology (3)	1103 American Government (3) 1213 English Comp II (3) 3213 Development Psychology (3) 3704 Human Anatomy (4) 3904 Human Physiology w/lab OR 4234 Exercise Physiology w/lab (4) xxx3 Major Elective (Prof Pre-req) (3)
Total (20)	Total (20)

APPLY TO AAS PROFESSIONAL PROGRAM OF CHOICE

SECOND YEAR

FIRST SEMESTER	SECOND SEMESTER
xxxx Professional Program Course xxxx Professional Program Course xxxx Professional Program Course xxxx Professional Program Course xxxx Professional Program Course English Proficiency Exam**	xxxx Professional Program Course xxxx Professional Program Course xxxx Professional Program Course xxxx Professional Program Course xxxx Professional Program Course
Total (15)	Total (15)

GRADUATE WITH AAS IN HEALTHCARE RELATED FIELD

THIRD YEAR

FIRST SEMESTER	SECOND SEMESTER
1004 Gen. Chemistry w/lab (4) 3193 The U.S. Healthcare System (3) 3933 Healthcare Management (3) xxx3 Humanities Elective (3)	3043 Health Statistics w/lab (3) 3363 Healthcare Comp and Risk Management (3) 4113 Healthcare Quality Measures (3) xxx3 GE Elective (I, II, or IV) (3) xxx2 Major Elective (2)
Total (13)	(Total 14)

FOURTH YEAR

FIRST SEMESTER	SECOND SEMESTER
1023 Comp and Info Access (3) 1313 Intro to Public Speaking (3) 3073 Diagnostics, Drugs & Therapeutics (3) 4093 Epidemiology (3)	3183 Cultural Competence in Healthcare (3) 3963 Healthcare Project Management (3) 4043 Healthcare Law & Ethics (3) xxx3 Humanities Elective (3)
Total (12)	Total (12)

*First time entering SWOSU students need to take 1051 SWOSUConnect.

**If applicable. See English Proficiency Program under the General Academic Information Section.

ASSOCIATE OF SCIENCE IN HEALTH SCIENCE (HLSCI.AS)

GENERAL EDUCATION (Min. 40 hours)

Courses that are required. *Courses that are recommended.*

Communication.....9

ENGL	1113	English Composition I
ENGL	1213	English Composition II
COMM	1313	Introduction to Public Speaking OR
TECH	3143	Technical Presentations (if permitted by degree program)

Quantitative Reasoning3

Select one course.

MATH	1143	Mathematical Concepts
MATH	1153	Mathematical Applications
MATH	1193	Elementary Statistics
MATH	1313	Functions and Modeling
MATH	1513	College Algebra

or a higher numbered math course

U. S. History3

Select one course.

HIST	1043	U.S. History to 1877
HIST	1053	U.S. History since 1877

American Government.....3

POLSC 1103 American Government & Politics

Science.....7-8

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BIOL	1013	Current Issues in Biology
BIOL	1054	Principles of Biology I w/Lab

Physical Science.....3-4

ASTRO	1904	Astronomy
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PHY	1063	General Physics (or a higher numbered chemistry or physics course)
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PHILO	1453	Introduction to Philosophy

Social and Human Sciences 3

ASL	2163	American Sign Language I
ECONO	2263	Intro to Macroeconomics
ECONO	2363	Intro to Microeconomics
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PSYCH	1003	General Psychology
SOCIO	1003	Introduction to Sociology
SPAN	1054	Elementary Spanish I (or higher number)
TECH	1223	Technology and Society

Computer Proficiency.....3
COMSC 1023 Computers and Info Access

HEALTH SCIENCE MAJOR

Required: Health Science (ALHLT) Coursework.....10

ALHLT	1323	Intro to Public Health OR
	ALHLT 3193	U.S. Health Care System
ALHLT	1401	Allied Health Careers
ALHLT	2323	Health Promotion and Protection
ALHLT	2453	Medical Terminology

Electives.....10

Any course in Allied Health, HIM, Kinesiology, Physical Science, or Life Science

Total Credit Hours60