

SCHOOL OF NURSING AND ALLIED HEALTH SCIENCES HEALTH SCIENCES

FACULTY

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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: Choice of Business, Chemistry, Physics, Psychology, Computer Science, and others with approval.

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 or for answers to questions regarding graduate level health programs.

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 (Code No. 553)

GENERAL EDUCATION

Courses that are **required** are in bold type.

Courses that are *recommended* are in italics.

TOTAL GENERAL EDUCATION HOURS **Min. 40**

REQUIRED CORE COURSES..... **31-35**

Written Communication..... **6**

ENGL 1113 English Composition I
ENGL 1213 English Composition II

Mathematics..... **3**

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

Science..... **7**

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

Life Science..... **4**

BIOL 1004 Biological Concepts w/Lab OR
BIOL 1054 Principles of Biology I w/Lab

Physical Science..... **4**

CHEM 1004 General Chemistry w/Lab
or a higher numbered chemistry or physics course

Humanities..... **6**

HUM 1103 Introduction to Humanities
OR

HIST 1033 World History

AND one of the following:

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
PHILO 1453 Introduction to Philosophy

Human, Cultural, & Social Diversity **3-4**

COMM 1313 Introduction to Public Speaking

Computer Proficiency..... **0-3**

Students must demonstrate computer proficiency (high school Computer Science course, SWOSU computer proficiency exam, or COMSC 1023 Computer & Info Access).

GE electives (from two different categories) to total **40**

PSYCH 1003 General Psychology
XXXX XXX3 GE Elective from Category I, II, or IV

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
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 3053 Advanced Medical Terminology
ALHLT 3073 Diagnostics, Drugs & Therapeutics
ALHLT 3861-4 Health Science Internship
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
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. Check sheets are available for all pre-professional programs in Science 206.)

REGULATIONS PERTAINING TO GRADUATION

Minimum Credit Hours for Graduation..... **120**
Minimum credit hours in the liberal arts & sciences..... **55**
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 (Code 553)
Suggested Course Sequence***

FIRST YEAR

FIRST SEMESTER	SECOND SEMESTER
1001 Freshmen Orientation (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) Total (15)	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 (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** Total (16)	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)

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) Total (15-16)	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)

FOURTH YEAR

FIRST SEMESTER	SECOND SEMESTER
4081 Health Science Senior Summit (1) xxx3 Course in Minor (3) Major Electives (9-12) Total (13-16)	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 (13-14)

*Students should consider Summer School to lighten load.

**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. Degree plans are available in the School of Allied Health Sciences office, located in Science 206.

BACHELOR OF APPLIED SCIENCE IN HEALTH SCIENCE (Code No. 555)

GENERAL EDUCATION

Courses that are **required** are in bold type.
Courses that are *recommended* are in italics.

TOTAL GENERAL EDUCATION HOURS	Min. 40
Written Communication	6
ENGL 1113 English Composition I	
ENGL 1213 English Composition II	
Mathematics	3
MATH 1513 College Algebra	
or a higher numbered math course	
U. S. History	3
<i>Select one course.</i>	
HIST 1043 U.S. History to 1877	
HIST 1053 U.S. History since 1877	
American Government	3
POLSC 1103 American Government & Politics	
Science	8
<i>Select one course from Life Science and one course from Physical Science. One Science course must be a lab science.</i>	
Life Science	4
BIOL 1004 Biological Concepts w/Lab OR	
BIOL 1054 Principles of Biology I w/Lab	
Physical Science	4
CHEM 1004 General Chemistry w/Lab or	
or a higher numbered chemistry or physics course	
Humanities	6
HUM 1103 Introduction to Humanities	
OR	
HIST 1033 World History	
AND one of the following:	
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	
PHILO 1453 Introduction to Philosophy	
Human, Cultural, & Social Diversity	3
COMM 1313 Introduction to Public Speaking	
Computer Proficiency	0-3
Students must demonstrate computer proficiency by meeting one (1) of the following:	
• COMSC 1023 Computer & Info Access	
• *High School Computer Science course	
• *SWOSU Computer Proficiency Exam	
*Must complete additional 3 hours from GE options	
GE electives (from two different categories) to total	40
PSYCH 1003 General Psychology	
XXXX XXX3 GE Elective from Category I, II, or IV	

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	
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 3053 Advanced Medical Terminology	
ALHLT 3971-2 Health Care Internship	
ALHLT 4074 Pathophysiology	
ALHLT 4123 Healthcare Revenue Cycle	
ATEP 2633 Cardiac and Emergency Care	
ATEP 4433 Athletic Training Modalities	
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 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**

Total Credit Hours

REGULATIONS PERTAINING TO GRADUATION	
Minimum Credit Hours for Graduation	120
Minimum credit hours in the liberal arts & sciences	55
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

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

**BACHELOR OF APPLIED SCIENCE
IN HEALTH SCIENCE (Code 555)
Suggested Course Sequence**

FIRST YEAR

FIRST SEMESTER	SECOND SEMESTER
1001 Freshmen Orientation (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)

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