

Health Science Graduation Requirements

(class entering Fall 2023 and beyond)

Table 1 Core Courses required for all Butler graduates

Core requirements	Transfer credit	Enrolled	Completed
FYS 101 (<i>First Year Seminar</i> ; 3 hrs) or HN 110 (<i>Honors FYS</i> ; 4 hrs)			
FYS 102 (<i>First Year Seminar</i> ; 3 hrs) or HN 111 (<i>Honors FYS</i> ; 4 hrs)			
PCA (<i>Perspectives in the Creative Arts</i> ; 3 hrs)			
TI (<i>Text & Ideas</i> ; 3 hrs)			
AR (<i>Analytical Reasoning</i> ; 3 hrs) any AR course or MA 106			
GHS (<i>Global & Historical Studies</i> ; 3 hrs)			
GHS (<i>Global & Historical Studies</i> ; 3 hrs)			
SW (<i>Social World</i> ; 3 hrs) should be satisfied via SW 200 or SW 250			
PWB (<i>Physical Well-Being</i> ; 1 hr)			
BCR (<i>Butler Cultural Requirement</i> ; 8 events)	X	X	

Table 2. Health related courses required for Health Science majors.

BSHS requirements	Transfer credit	Enrolled	Completed
BSHS 110 <i>Introduction to Healthcare</i> ; 3 hrs (satisfies SJD core requirement)			
BSHS 215 <i>Medical Terminology</i> ; 2 hrs			
BSHS 225 <i>Interprofessional Health Education</i> ; 2 hrs			
BSHS 230 <i>Healthcare Systems & Policy</i> ; 2 hrs			
BSHS 290 <i>Exploring Public Health</i> ; 3 hrs			
BSHS 340 <i>Healthcare Communications</i> ; 3 hrs			
BSHS 360 <i>Healthcare Ethics</i> ; 3 hrs			
BSHS 350 <i>Health Disparities</i> ; 3 hrs (satisfies ICR core requirement)			
BSHS 430 <i>Healthcare Quality & Improvement</i> ; 2 hrs			
BSHS 450 <i>Healthcare Biostatistics</i> ; 3 hrs			
BSHS 460 <i>Evidence-Based Healthcare</i> ; 3 hrs			
BSHS 470 <i>Introduction to Pharmacology</i> ; 4 hrs			
Social Science – a second psychology or sociology course of choice; tailor selection to graduate program prerequisites			

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Table 3. Explore. Prepare. Succeed.

EPS course series – beginning Fall 2022 every student must enroll in the appropriate BSHS 300 section every semester they are in the major.	Transfer credit	Enrolled	Completed
BSHS 300-01 EPS First-year Fall; 0.5 hrs			
BSHS 300-01 EPS First-year Spring; 0.5 hrs			
BSHS 300-02 EPS Sophomore Fall; 0.5 hrs			
BSHS 300-02 EPS Sophomore Spring; 0.5 hrs			
BSHS 300-03 EPS Junior Fall; 0.5 hrs			
BSHS 300-03 EPS Junior Spring; 0.5 hrs			
BSHS 300-04 EPS Senior Fall; 0.5 hrs			
BSHS 300-04 EPS Senior Spring; 0.5 hrs			
BSHS 300-05 EPS Transfer students initial term; 0.5 hrs (Transfer students only, first-term in major. Takes place of prior EPS course requirements. Second term enroll as normal.)			

Table 4. Science courses required for Health Science majors

Science Requirements	Transfer credit	Enrolled	Completed
CH 105 General Chemistry I; 4 hrs or CH 107 General Chemistry; 5 hrs (advanced 1 semester alternative to CH 105 and CH 106)			
CH 106 General Chemistry 2; 4 hrs			
BI 210 Genetics - Fundamentals; 4 hrs			
BI 220 Cell Biology; 4 hrs (for change of major and transfer students, BI 105 may be acceptable if previously completed and BI 220 not prereq for graduate school)			
BI 325 Principles of Pathogenic Microbiology; 3 hrs			
BSHS 334 Human Anatomy & Physiology 1 with lab; 5 hrs			
BSHS 335 Human Anatomy & Physiology 2 with lab; 5 hrs			

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Table 5. Other Science courses required or elective for Health Science majors

Science choice – <i>choose 3 courses from the following.</i>	Transfer credit	Enrolled	Completed
CH 351 <i>Organic Chemistry 1</i> ; 4 hrs			
CH 352 <i>Organic Chemistry 2</i> ; 4 hrs			
CH 361 <i>Intro to Biochemistry</i> ; 3 hrs or CH 362 <i>Biochemistry 1</i> ; 4 hrs			
PH 107 <i>Elementary Physics 1</i> ; 4 hrs			
PH 108 <i>Elementary Physics 2</i> ; 4 hrs			
RX 316 <i>Pathophysiology</i> ; 4 hrs <i>Note: BI 325 is prerequisite</i>			
RX 312 <i>Clinical Biochemistry & Metabolism</i> ; 4 hrs <i>Note: CH 352 is prerequisite</i>			

Table 6. Elective courses**

Electives courses – <i>at least 15 hrs required</i> <i>(no more than 6 elective hrs may double count with any declared minor)</i>	Hrs	Transfer credit	Enrolled	Completed
Total credits: _____				

*Please see *Approved Elective Choices for Health Sciences Majors* below for a list of Butler University courses approved as electives for Health Science majors.

**Please see description for *Optional BSHS Medical Spanish Concentration* below. The courses you choose for your concentration will contribute to your BSHS electives requirement.

The minimum number of credit hours for the Health Science major (BSHS degree) is 122.

Per university requirements, a minimum of 40 credit hours must be at the 300 level or above.

And for students transferring into Butler from another university, at least 45 credit hours of coursework must be successfully completed here to earn a Butler degree.

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Approved Elective Choices for Health Sciences Majors

AC 100 Volunteer Income Tax Assistant

AN 302 The Body & Society

AN 304 Medical Anthropology

AN 380 Selected Topics in Anthropology (Reproductive Technologies or Medical Technologies)

BI 230 Ecology and Evolutionary Biology (prerequisite= BI220)

BI 301 Vertebrate Biology (prerequisite = BI230)

BI 323 Immunology

BI 411 Principles of Physiology (prerequisite = BI 230)

BI 460 Cell and Molecular Neurobiology (Prerequisite BI 230 with C- or better; BI 411 recommended)

BSHS 206S Poverty and Modern Day Slavery

BSHS 210 Topics in Health and Wellness, Building A Better Bulldog

BSHS 280 Emergency Medical Technician- Basic (EMT-basic) Training Program (offered in summer only)

BSHS 385 Healthcare Immersion Abroad

BSHS 301 HCB/HS Internship Courses

BSHS 310 Nutrition for Healthcare Providers

BSHS 319 Introduction to Healthcare Analytics

BSHS 480 Integrative Medicine

BSHS 481 Intro to Medical Spanish

BSHS 482 Advanced Medical Spanish

BSHS 483 Medical Spanish Service Learning

BSHS 484 Spanish Immersion Trip

BSHS 485 Culinary Medicine (combined study abroad experience)

BSHS 486 Making Medicines

BSHS 487 Toxicology

BSHS 488 Drug Abuse Pharmacology, Chemistry, and Social Aspects

BSHS 489 Spanish/English Medical Interpretation

BSHS 491 Professional Leadership

BSHS 492 Introduction to Epidemiology and Research

BSHS 493 Global Health

BSHS 494 Introduction to Gerontology

BSHS 495 Hot Topics in Healthcare

BSHS 497 BU Health

BSHS 499 Special Topics in Health Sciences (topics & # or credit hours vary)

Last updated 1.13.2023

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CH 462 Biochemistry 2

CH 418 03- Chemistry of Food study abroad experience (*note ONLY section 03, not sections 01, 02, or 04*)

EC 346 Healthcare Economics (prerequisite = EC231)

EN 303 Studies- Professional Writing, **Writing About Public Health** - (*Note this course may be used as an elective only when the topic is healthcare related. Several sections are not related to healthcare.*)

EN 370 Literature and Public Problems (*When topic is healthcare related, not all courses will qualify.*)

HN 300 Intro to Public Global Health (NOT ALL HN 300 COURSES; *may not receive elective credit for both HN 300 and BSHS 493 Global Health*)

HN 397/398 Honors Independent Study: Thesis Proposal

LC 301 Career Planning Strategies

MG 303 Leadership London (summer study abroad experience)

MG 380 Healthcare Administration (prerequisite = junior standing)

MK 386 Healthcare Marketing (prerequisite = MK 280 or MK 380)

MS 377 Healthcare Information and Technology Management (prerequisites = MS100 & MS265)

ORG 357 Health Communication

PE 128 Introduction to Health Education

PE 253 Motor Learning

PE 323 Kinesiology (prerequisite =PE 324)

PE 324 Anatomy & Physiology of Exercise

PE 352 Exercise Prescription (prerequisite = PE 323)

PL 363 Biomedical Ethics

PS 235 Biological Basis of Behavior (prerequisite = C- or better in SW 250PS or NW 220PS)

PS 320 Life Span Developmental Psychology (prerequisite = C- or better in SW 250PS or NW 220PS)

PS 333 Human Sexuality

PS 350 Social Psychology (prerequisite = C- or better in SW 250PS or NW 220PS)

PS 385 Cognitive Processes (prerequisite = C- or better in SW 250PS or NW 220PS)

PS 412 Advanced Applied Neuroscience (prerequisite = C- or better in PS 235, PS 385, or permission of instructor)

PS 441 Abnormal Psychology (10 hour prerequisite)

PX 350 Tuscany Culture and Cuisine study abroad experience

RZ 201 Leadership and Decision Making

RZ 202 Army Doctrine and Team Development

SO 311 Law and Society

SO 354 Aging and the Life Course

SO 356 Sociology of Health

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SW 200-SO Understanding Society: **Health and Illness** § (NOT ALL SW 200 COURSES)

SW 200-SO Understanding Society: **Disabilities and Society** § (NOT ALL SW 200 COURSES)

SW 275- BI 01 Mental Illness: Biological, Psychological, and Social Perspectives

SW 251 Determinants of Well-being

SW 280-ST Hunger and Obesity

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Optional BSHS Medical Spanish Concentration

The Medical Spanish concentration within the health science and healthcare and business majors would not add additional required hours for graduation, rather it would focus many elective choices into one area. The courses you choose for your concentration (from the list below) will contribute to your BSHS electives requirement.

Students pursuing this concentration must successfully complete:

- BSHS 481 Introduction to Medical Spanish
- BSHS 482 Advanced Medical Spanish
- BSHS 489 Spanish/English Medical Interpretation
- Plus any one of the following:
 - BSHS 483 Medical Spanish Service Learning
 - BSHS 484 Spanish Language Immersion Trip
 - BSHS 285 Healthcare Immersion Abroad (*when traveling to a Spanish speaking country*)