

# Health Science - B.S.

The Health Science bachelor's degree program prepares graduates for entry-level health-profession careers in such areas as health science, health promotion, public health, and health and policy administration. Additionally, it prepares graduates seeking postbaccalaureate entry into graduate programs such as physician assistant studies, physical therapy, occupational therapy, public health, counseling, general MBA and health informatics.

The curriculum is based on a strong foundation in the basic sciences along with the core public health subject areas. Content in the areas of health and wellness is emphasized. An interdisciplinary team of educators provides a holistic exposure to nutrition, exercise science, psychology, sociology, public health and economics, and their importance to patient-centered, humanistic healthcare delivery.

The Health Science degree emphasizes the application and synthesis of knowledge and develops graduates who are the problem solvers and critical thinkers of tomorrow.

Upon completion of the program, graduates are expected to:

- Apply fundamental biologic, socio-economic, behavioral, ethical, cultural and spiritual principles to the practice of health and wellness.
- Synthesize foundational knowledge and the results of inquiry and research.
- Effectively communicate health and wellness principles to diverse populations.
- Employ discipline appropriate tools, methods, and analytical approaches to study a problem/opportunity in public health research or practice.
- Work collaboratively as a member of a health and wellness team to improve individual and community outcomes.

The Health Science or pre-professional pathway contains specific physical science courses in biology, anatomy, physiology and chemistry. In consultation with their adviser, students choose additional courses that will prepare them for their individual career goals. Students in health science are prepared for jobs in medicine and research or for applying to graduate and professional schools in a number of areas.

## Health Science

A four-year program leading to the bachelor of science degree

### Major Courses

BIO1011	General Biology - Cellular	3
BIO1016	General Biology Laboratory - Cellular	1
BIO1022	General Biology - Organismal	3
BIO1026	General Biology Laboratory - Organismal	1
BIO2003	Human Anatomy and Physiology I	3
BIO2006	Human Anatomy and Physiology I Laboratory	1
BIO2013	Human Anatomy and Physiology II	3
BIO2016	Human Anatomy and Physiology II Laboratory	1
HSC1010	Introduction to Health Professions	1
HSC1100	Determinants of Health	3
HSC1230	Introduction to Public Health	3
HSC2100	Epidemiology	3
HSC2400	Research Methods for Health Science	3
HSC4900	Data and Evidence in Health: Research Capstone	3

### Major Electives

Choose 17-18 credits from the following: \* 17-18

BIO2201 & BIO2206	General Microbiology and General Microbiology Laboratory	
BIO3400	Fundamentals of Pharmacology	
CHM2050 & CHM2056	Introduction to Organic Chemistry and Introduction to Organic Chemistry Laboratory	
CHM3040 & CHM3046	Biochemistry and Biochemistry Laboratory	
PHY1011 & PHY1016	General Physics I and General Physics I Laboratory	
PHY1022 & PHY1026	General Physics II and General Physics II Laboratory	
PSYC2002	Abnormal Psychology	
PSYC2030	Developmental Psychology	
SOC1001	Sociology I	
SOC2005	Honors Seminar: Social Inequalities	
SOC2035	Sociology of Aging	
Major Elective†	Choose 3 credits from Major Electives †	

### Applied/Experiential Learning

Choose 6 credits from the following: 6

CHW4799	College of Health & Wellness Internship <sup>lc</sup>	
DEE3999	Directed Experiential Education <sup>D</sup>	
Study Abroad <sup>5a</sup>		

### Related Professional Studies

CAR0010	Career Management	1
CHM1011	General Chemistry I	3
CHM1016	General Chemistry I Laboratory	1
CHM1022	General Chemistry II	3
CHM1026	General Chemistry II Laboratory	1
CULN2414	Cooking for Health and Wellness	3
FYS1020	First-Year Seminar	1

### A&S Core Experience

Communications Foundation Courses 9		
ENG1020	Rhetoric & Composition I	
ENG1021	Rhetoric & Composition II	
ENG1030	Communication Skills	
Integrative Learning 6		
Two ILS courses, one at the 2000 level, one at the 4000 level		
Arts and Humanities 6		
PHIL3240	Ethics: A Global Perspective	
One course from ART, HIST, HUM, LIT or REL		
Mathematics 6		
MATH1030	Precalculus (or higher, based on student's placement) **	
MATH2010	Introduction to Biostatistics	
Science 3		
SCI1050	Nutrition	
Social Sciences 6		
PSYC1001	Introductory Psychology	
One course from ANTH, ECON, GEND, LEAD, PSCI, RES or SOC		
A&S Electives 6		
Two courses with an EASC attribute		
Free Electives # 12		
12 credits selected from 1000-4999 numbered offerings within the university		

**Total Credits 122.0-123.0**

\* Students selecting to focus in Occupational Therapy, Physical Therapy or Physician Assistant should consult with their faculty advisor prior to registration.

\*\* Students that do not place in MATH1030 Precalculus, will need to take an extra course, MATH1020 Fundamentals of Algebra, as a prerequisite. If needed this will count as an A&S elective.

### † Major Electives for Health Science Majors

(Students are responsible for meeting prerequisites. Courses already required in a student's program cannot be selected to fulfill the major elective.)

Health/Science		
HSC2230	Introduction to Global Health	3
HSC3200	Health Education and Program Planning	3
HSC3300	Comparative Healthcare Systems	3
HSC4100	Health Policy, Ethics and the Law	3
SCI1015	Introduction to Life Science	3
SCI2020	Introduction to Exercise Physiology	3
Leadership/Management		
ACCT1210	Financial Accounting	3
ACCT1220	Managerial Accounting	3
BUS1001	Introduction to Business and Management	3
ECON1001	Macroeconomics	3
ECON1002	Microeconomics	3
FISV2000	Finance	3
MGMT2001	Human Resource Management	3
Social/Behavioral		
CSLG2030	Counseling Theories and Techniques	3
PSYC2040	Psychological Issues of Substance Use Disorders and Compulsive Behaviors	3
PSYC2100	Health Psychology	3

<sup>lc</sup>Typically, internships require a minimum of six credits. Students interested in a 9 or 12-credit internship can apply additional experiential learning and

free elective credits, if available. Students are strongly encouraged to contact a faculty advisor before scheduling internship and free elective credits.

<sup>D</sup> Directed Experiential Education (DEE) opportunities are based on project availability with community partners and student eligibility. For more information, visit Experiential Education & Career Services (EE&CS).

<sup>Sa</sup>To be eligible to count toward Applied/ Experiential Learning, a Study Abroad offering must meet certain requirements. Contact JWU Global to discuss eligible Study Abroad options for this degree program.

# In addition to classes, free elective credits may be applied to a number of options such as internship, study abroad, Directed Experiential Education courses and courses in a specialization or minor as relevant. For Accelerated Master's program students, up to three graduate-level courses may apply. Students are strongly encouraged to contact a faculty advisor before scheduling free elective credits.

NOTE: Students must pass MATH0010 Pre-Algebra or have equivalent placement scores to enroll in required math course(s).

Note: Students must pass ENG0001 Writing Workshop or have equivalent placement scores to enroll in ILS 2000-level courses

In collaboration with academic colleges across all JWU campuses, JWU Global Study Abroad programs offer a variety of international options for major, minor, arts and sciences, and elective credit at many affordable price points for students during the academic year, break periods, and summer. Faculty-led, exchange, affiliate, and direct-enroll programs range in duration from one week to a full semester or full year. Financial aid may be applied and scholarships are available. Visit the study abroad website for information, program descriptions and online applications. *Where will you go?*