

BACHELOR OF SCIENCE-HEALTH SCIENCE

Degree Requirements

Students should refer to their DegreeWorks degree audit located in their Digital Backpack for more information regarding their specific degree requirements.

Code	Title	Hours
General Education Requirements (http://catalog.tamut.edu/academic-information/university-core-curriculum/)		42
Major Requirements		
6 Credits from:		6
BIOL 1306 or BIOL 1307 or BIOL 1308 or CHEM 1311	Biology for Science Majors I ^{satisfies core curriculum} Biology for Science Majors II Biology for Non-Science Majors I General Chemistry I	
PSYC 2301	General Psychology ^{satisfies core curriculum}	3
MATH 1314	College Algebra ^{satisfies core curriculum}	3
MATH 1342	Elementary Statistical Methods	3
BUSI 1301	Introduction to Business ^{satisfies core curriculum}	3
HSCI 300	Epidemiology	3
HSCI 301	Healthcare for a Diverse Population	3
HSCI 302	Healthcare Administration History, Culture, and Language	3
HSCI 303	Health Information Systems	3
HSCI 406	Quality Control Management in Healthcare	3
HSCI 407	Healthcare, Human Resources, and Employment Law	3
HSCI 408	Healthcare Strategic Management	3
HSCI 409	Disaster & Emergency Preparedness Management	3
HSCI 410	Healthcare Reimbursement	3
HSCI 434	Healthy Aging	3
ECON 2301	Principles of Macroeconomics	3
LEAD 305	Introduction to Leadership: Concepts and Practices	3
MGT 395	Principles of Management	3
FIN 354	Financial Management	3
BIOL 335	Medical Terminology	3
MKT 363	Marketing	3
ACCT 2301	Principles of Accounting I	3
ACCT 2302	Principles of Accounting II	3
HSCI 347	Foundations of Health Care Ethics	3
HSCI 348	Introduction to Health Policy	3
NURS 336		
COMM 380	Professional Communication	3
Electives as needed to meet minimum degree requirements		
Minimum Hours for Degree		120

Note: A minimum of 54 upper division hours (300 and 400 level courses) are required for this degree. Resident credit totaling 25% of the hours is required for the degree. A minimum GPA of 2.0 is required in three areas for graduation: Overall GPA, Institutional GPA, and Major GPA.

First Year

Code	Title	Hours
Fall		
ENGL 1301	Composition I ^{minimum grade of 'C' required; satisfies core curriculum}	3
HIST 1301	United States History I ^{satisfies core curriculum}	3
MATH 1314	College Algebra ^{satisfies core curriculum}	3

PSYC 2301	General Psychology	satisfies core curriculum	3
Elective			3
Fall Total Semester Credit Hours			15
Spring			
ENGL 1302	Composition II	minimum grade of 'C' required; satisfies core curriculum	3
or ENGL 2311	Technical Writing & Communication		
HIST 1302	United States History II	satisfies core curriculum	3
BIOL 1306	Biology for Science Majors I	satisfies core curriculum	3
or BIOL 1307	Biology for Science Majors II		
or BIOL 1308	Biology for Non-Science Majors I		
or CHEM 1311	General Chemistry I		
BIOL 1106	Biology for Science Majors I Lab		1
or BIOL 1107	Biology for Science Majors II Lab		
or BIOL 1108	Biology for Non-science Majors I Lab		
or CHEM 1111	General Chemistry I (Lab)		
SPCH 1315	Public Speaking	satisfies core curriculum	3
or COMM 1307	Introduction to Mass Communication		
or COMM 1311	Introduction to Communication Studies		
Creative Arts Core Curriculum Requirement (http://catalog.tamut.edu/academic-information/university-core-curriculum/)			3
Spring Total Semester Credit Hours			16
Total First Year Semester Credit Hours			31

Second Year

Code	Title	Hours
Fall		
HSCI 434	Healthy Aging	3
PSCI 2305	U.S. Government and Politics	satisfies core curriculum 3
BIOL 1306	Biology for Science Majors I	satisfies core curriculum 3
or BIOL 1307	Biology for Science Majors II	
or BIOL 1308	Biology for Non-Science Majors I	
or CHEM 1311	General Chemistry I	
BIOL 1106	Biology for Science Majors I Lab	satisfies core curriculum 1
or BIOL 1107	Biology for Science Majors II Lab	
or BIOL 1108	Biology for Non-science Majors I Lab	
or CHEM 1111	General Chemistry I (Lab)	
Language, Philosophy and Culture Core Curriculum Requirement (http://catalog.tamut.edu/academic-information/university-core-curriculum/)		3
Elective		1
Fall Total Semester Credit Hours		14
Spring		
MATH 1342	Elementary Statistical Methods	3
PSCI 2306	State and Local Government	satisfies core curriculum 3
ECON 2302	Principles of Microeconomics	satisfies core curriculum 3
LEAD 305	Introduction to Leadership: Concepts and Practices	3
MGT 395	Principles of Management	3
Spring Total Semester Credit Hours		15
Total Second Year Semester Credit Hours		29

Third Year

Code	Title	Hours
Fall		
FIN 354	Financial Management	3
BIOL 335	Medical Terminology	3

MKT 363	Marketing	3
ACCT 2301	Principles of Accounting I	3
Elective		3
Fall Total Semester Credit Hours		15
Spring		
HSCI 347	Foundations of Health Care Ethics	3
HSCI 348	Introduction to Health Policy	3
HSCI 300	Epidemiology	3
BUSI 1301	Introduction to Business	3
ACCT 2302	Principles of Accounting II	3
Spring Total Semester Credit Hours		15
Total Third Year Semester Credit Hours		30

Fourth Year

Code	Title	Hours
Fall		
NURS 336		
COMM 380	Professional Communication	3
HSCI 301	Healthcare for a Diverse Population	3
HSCI 302	Healthcare Administration History, Culture, and Language	3
HSCI 303	Health Information Systems	3
Fall Total Semester Credit Hours		15
Spring		
HSCI 406	Quality Control Management in Healthcare	3
HSCI 407	Healthcare, Human Resources, and Employment Law	3
HSCI 408	Healthcare Strategic Management	3
HSCI 409	Disaster & Emergency Preparedness Management	3
HSCI 410	Healthcare Reimbursement	3
Spring Total Semester Credit Hours		15
Total Fourth Year Semester Credit Hours		15
Total Hours required for Degree		120

HSCI 1106. Safety, First Aid, and CPR. 1 Hour.

This course is an introduction to the current standards and techniques for first aid and provides information on the prevention of accidents, functional first aid knowledge, and the skills to care for basic emergencies, obstructed airways, rescue breathing, and CPR. Students will have the option of American Red Cross certification in adult or child CPR, responding to Emergencies First Aid, and/or Automated External Defibrillation.

HSCI 1323. Nutrition and Health. 3 Hours.

This course will emphasize the role of nutrition in health promotion and maintenance. Sources and roles of nutrients and the processes of ingestion, digestion, absorption, and metabolism of nutrients provide the foundation of the course. The student will perform a nutritional assessment and apply nutritional guidelines and food safety to self and others and analyze nutritional facts and myths. Cultural, religious and ethnic differences, age-related nutritional needs, and an examination of nutrition myths will be integrated. The course will include an introduction to clinical nutrition.

HSCI 189. Independent Study in HSCI. 1-6 Hours.

HSCI 300. Epidemiology. 3 Hours.

Introduces students to the essential principles of epidemiology within the context of healthcare administration. Focusing on the study of disease patterns and health determinants, students will learn how to apply epidemiological methods to address population health challenges. The course covers foundational topics such as disease distribution, study design, and data analysis, while emphasizing public health concepts like health promotion and risk assessment.

HSCI 301. Healthcare for a Diverse Population. 3 Hours.

Prepares students to examine the complex healthcare needs of diverse populations, with a focus on enhancing culturally competent care and reducing health disparities. Students will explore the impact of social, cultural, and economic factors on health outcomes and access to healthcare.

HSCI 302. Healthcare Administration History, Culture, and Language. 3 Hours.

Provides an overview of the historical development, cultural influences, and language dynamics within healthcare administration. Students will explore how these elements shape healthcare policies, patient-provider interactions, and organizational practices.

HSCI 303. Health Information Systems. 3 Hours.

This course introduces students to the fundamentals of health information systems (HIS) and their critical role in supporting healthcare operations and patient care. Students will explore topics such as electronic health records (EHRs), health data management, and system interoperability, with an emphasis on data security and privacy.

HSCI 346. Wellness and Holistic Health Practices. 3 Hours.

This fully online course is an introduction to the practice of holistic health practices as they relate to one's own state of wellness. Health and harmony of the body, mind, and spirit to obtain a richer state of health balance will be emphasized. This class will explore how complementary and alternative therapies can be used to create and support a state of balance within yourself and with your environment. Local, regional, and state complementary and alternative medicine resources will be discovered and identified. Cross listed with HSCI 546.

HSCI 347. Foundations of Health Care Ethics. 3 Hours.

This course introduces students to the fundamental principles of healthcare ethics and their application in contemporary health sciences. Students will explore the philosophical roots of ethics, examine major ethical frameworks, and analyze common dilemmas faced in healthcare delivery. Topics include end-of-life decisions, hospice care, abortion, patient rights, refusal of treatment, and the medical use of marijuana for pain management. Legal documents and precedents relevant to healthcare practice will also be reviewed to help students understand the intersection of ethics, law, and patient care.

HSCI 348. Introduction to Health Policy. 3 Hours.

This course will provide experiential learning to explore a health care advocacy or policy project at the local, regional, or national level. This project-based learning will enable the student to work policy makers and interdisciplinary providers to solve a healthcare issue.

HSCI 406. Quality Control Management in Healthcare. 3 Hours.

Introduces students to the fundamentals of quality control in healthcare settings, focusing on the principles, practices, and systems designed to ensure the provision of high-quality care. The course emphasizes the role of healthcare administrators in leading quality improvement initiatives, monitoring performance metrics, and fostering a culture of continuous improvement within healthcare organizations.

HSCI 407. Healthcare, Human Resources, and Employment Law. 3 Hours.

This course examines the intersection of human resources management and employment law within healthcare organizations. Students will explore HR functions such as recruitment, staffing, and employee relations, with a focus on legal issues like ADA, HIPAA, and labor laws. Emphasis will be placed on strategies for ensuring legal compliance and promoting a healthy work environment in healthcare settings.

HSCI 408. Healthcare Strategic Management. 3 Hours.

This course provides an overview of strategic management principles applied to healthcare organizations. Students will explore strategic planning processes, SWOT analysis, and decision-making models, with a focus on the healthcare environment. The course emphasizes developing strategies for improving organizational performance and patient outcomes in response to industry challenges, including policy changes, market dynamics, and healthcare regulations.

HSCI 409. Disaster & Emergency Preparedness Management. 3 Hours.

Prepares students to examine the principles of disaster and emergency preparedness within healthcare settings. Students will explore the key elements of creating, implementing, and evaluating emergency preparedness plans for healthcare organizations. Topics include risk assessment, crisis communication, response coordination, resource management, and recovery strategies in the face of natural, man-made, or technological disasters. The course also emphasizes the role of healthcare leaders in ensuring resilience and continuity of care during emergencies.

HSCI 410. Healthcare Reimbursement. 3 Hours.

This course explores healthcare reimbursement systems, focusing on payment models, insurance programs, coding, billing, and revenue cycle management. Students will learn how reimbursement structures, including Medicare, Medicaid, and private insurance, impact healthcare organizations and patient care.

HSCI 434. Healthy Aging. 3 Hours.

This course will provide an overview of issues related to public health and aging and will explore in-depth information regarding the health issues of aging individuals, including physical health, psychological health, legal and ethical issues of health, and Medicare/Medicaid. The course will continue to cover the concept of successful aging, the implications of chronic illness and disability for public health, health promotion for older adults, and other topics central to public health in an aging society.