HEALTH SCIENCE (BS)

Program Overview
The Bachelor of Science in Health Science is designed as a fundamental health-related degree that will enable students to pursue a variety of careers related to our population’s health status. Graduates will have the basic skills and knowledge needed to become an asset to the health care community. Students are encouraged to become nationally recognized certified health education specialists (CHES) through the National Commission for Health Education Credentialing (www.nchec.org). Students are also encouraged to advance their education at one of the Programs or Schools of Public Health. The website is http://www.aspph.org/ for more information. There are a variety of opportunities for students majoring in Health Science.

Career Opportunities
There are a variety of opportunities for students majoring in Health Science. Possible career paths include:
- Medicine (Physician or Physician’s Assistant)
- Occupational Therapy
- Physical Therapy
- Environmental health
- Behavioral sciences-health education
- Epidemiology
- Health service administration
- Maternal and child health
- Nutrition
- International-global health
- Community outreach
- Research
- Counseling

Students must understand that some allied health professions require additional certification or other designated criteria along with their educational degree in health science.

Program of Study
Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

Core Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1101</td>
<td>English Composition I (minimum grade of C)</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1102</td>
<td>English Composition II (minimum grade of C)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1001</td>
<td>Quantitative Skills and Reasoning</td>
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<tr>
<td>MATH 1101</td>
<td>Introduction to Mathematical Modeling</td>
<td>3</td>
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<tr>
<td>MATH 1111</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1113</td>
<td>Pre-Calculus</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1125</td>
<td>Applied Calculus</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1131</td>
<td>Calculus with Analytic Geometry I</td>
<td>3</td>
</tr>
</tbody>
</table>

Area A Total: 9
ANTH/ENGL 2136 Language and Culture
GEOG 1101 World Regional Geography
HIST 1111 World History to 1500
HIST 1112 World History since 1500
INTS 2105 Introduction to International Studies and Cross-Cultural Learning
ITDS 1156 Understanding Non-Western Cultures

Area E Total 12

Wellness Requirement
PHED 1205 Concepts of Fitness 2
Select one PEDS course (https://catalog.columbusstate.edu/course-descriptions/peds/#peds) 1
Wellness Total 3
Total Credit Hours 45

Note: Students whose majors require 2 lab science courses in Area D complete Area B and Area D with a combined total of 15 credit hours. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

Area B1, 3 hours;
Area B2, 1 hour;
Area D1, 8 hours;
Area D2, 3 hours.

ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

Major Requirements

Core Requirements
Complete the core requirements for this program 45

Area F Courses Related to Major
Minimum grade of C is required
BIOL 2221K Human Anatomy and Physiology I 4
BIOL 2222K Human Anatomy and Physiology II 4
BIOL 2225K Microbiology for the Health Sciences 4
HESC 2105 Personal Health 3
HESC 2125 Applied Nutrition 3
Area F Total 18

Area G Program Requirements
Minimum grade of C is required
HESC 1105 Introduction to the Health Professions 1
HESC 3105 Survey of Environmental Health 3
HESC 4106 Methods and Materials in Health Education 3
HESC 4145 Working with Families 3
HESC 5107U Human Sexuality 3
HESC 5115U Principles of Epidemiology 3
HESC 5187U Research Methods for the Health Professions 3
HESC 5795U Seminar in Alcohol and Drug Abuse 3
STAT 3127 Statistical Computing 3
Area G Total 25

Area H Program Electives

Minimum grade of C is required in each HESC course
Select 24 credits from the following: 1
BIOL 1231K General Biology I 4
BIOL 1232K General Biology II
CHEM 1211 Principles of Chemistry I 4
& 1211L and Principles of Chemistry I Lab
ENGL 3158 Writing in the Workplace
KINS 3135 Kinesiology
HESC 3165 Working with the Aged
HESC 4107 Fundamentals of School Health
HESC 4129 Death and Dying
HESC 4698 Internship
HESC 4795 Seminar in Health Science
HESC 4899 Independent Study
HESC 5106U Behavioral Determinants of Health and Disease
HESC 5108U Consumer Health
HESC 5109U Grant Writing for the Health Professions
HESC 5188U Contemporary Health Problems
ITDS 2106 Medical Terminology
MATH 1113 Pre-Calculus
PHYS 1111 Introductory Physics I
& PHYS 1311 and Introductory Physics I Lab
Area H Total 24

Area I General Electives
Select 11 credits
Area I Total 11
Total Credit Hours 123

Program Map

First Year
Fall
ENGL 1101 English Composition I (minimum grade of C) 3
MATH 1111 College Algebra (minimum grade of C) 3
HESC 2105 Personal Health (minimum grade of C) 3
Area B1 COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 3
Select one of the following: 4
CHEM 1211 Principles of Chemistry I and Principles of Chemistry I Lab (minimum grade of C)

CHEM 1151 & 1151L Survey of Chemistry I and Survey of Chemistry I Lab (minimum grade of C)

Credit Hours 16

Spring
ENGL 1102 English Composition II (minimum grade of C) 3
### Second Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
<td>HIST 2111 U. S. History to 1865 or HIST 2112 U. S. History since 1865</td>
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<tr>
<td></td>
<td>BIOL 2225K Microbiology for the Health Sciences</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>AREA C Humanities</td>
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<tr>
<td></td>
<td>PHED 1205 Concepts of Fitness</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>POLS 1101 American Government</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>Total Credit Hours</strong></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td>Spring</td>
<td>AREA E Behavioral Science</td>
<td>3</td>
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<tr>
<td></td>
<td>ITDS 1156 Understanding Non-Western Cultures 1</td>
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<tr>
<td></td>
<td>STAT 1401 Elementary Statistics (minimum grade of C)</td>
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<tr>
<td></td>
<td>BIOL 2221K Human Anatomy and Physiology I (minimum grade of C)</td>
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<tr>
<td></td>
<td>AREA I General Electives</td>
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<td><strong>Total Credit Hours</strong></td>
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### Third Year

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<tr>
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<th>Courses</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>Fall</td>
<td>BIOL 2222K Human Anatomy and Physiology II (minimum grade of C)</td>
<td>4</td>
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<tr>
<td></td>
<td>AREA H Advisor Approved Elective (minimum grade of C) 1</td>
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<tr>
<td></td>
<td>HESC 5795U Seminar in Alcohol and Drug Abuse (minimum grade of C)</td>
<td>3</td>
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<tr>
<td></td>
<td>HESC 4145 Working with Families (minimum grade of C)</td>
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<td>AREA I General Electives</td>
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<tr>
<td></td>
<td><strong>Total Credit Hours</strong></td>
<td><strong>16</strong></td>
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<tr>
<td>Spring</td>
<td>HESC 1105 Introduction to the Health Professions (minimum grade of C)</td>
<td>1</td>
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<tr>
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<td>HESC 5187U Research Methods for the Health Professions (minimum grade of C)</td>
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<tr>
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<td>HESC 4107 Fundamentals of School Health (minimum grade of C) 1</td>
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<td>AREA H Program Electives (minimum grade of C)</td>
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<td>AREA I General Elective</td>
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<td>Area I General Elective</td>
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<td><strong>Total Credit Hours</strong></td>
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### Fourth Year

<table>
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</thead>
<tbody>
<tr>
<td>Fall</td>
<td>HESC 5115U Principles of Epidemiology (minimum grade of C)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credit Hours</strong></td>
<td><strong>15</strong></td>
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</tbody>
</table>

### Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A" (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.
- To count toward graduation, all grades must be "C" or better of courses in Areas A, D, F, G, and H.
- Many graduate programs require an entrance examination. Students should take this exam prior to applying for graduate programs.
- Students should work with their advisor to ensure all required courses are taken for the graduate program of choice.
- PHED 1205 Concepts of Fitness is required for all students unless they are over the age of 40, a prior military service member, or have a documented disability.

### Admission Requirements

Students must have a grade point average of at least 2.5 or higher to transfer into the Health Science major.

### Additional Program Requirements

- Students must earn a grade of C or above in all science, math, and health science courses located in Areas F, G, and H of the curriculum in order to be eligible for graduation.
• Students must confirm their course selection each semester with an Academic Advisor.

Program Learning Outcomes

• Understand the role of the health professional in the provision of services to clients/patients.

• Be able to compile, calculate and use health-related data to identify and evaluate health needs, interests and concerns of individuals and/or groups.

• Be able to function as public health professionals for the health-related problems of individuals in the school, workplace or various community environments.

• Be able to identify and describe the behavioral determinants of good mental and physical health.

• Possess the skills and knowledge needed in order to develop a comprehensive educational program that focuses on tobacco use prevention, cancer education, diabetes education and other health-related topics.