Health Science

MAJOR

Coordinator: Karen L. Keller, Associate Professor, Department of Biology

- The interdisciplinary B.S. in Health Science provides an alternative to traditional bachelor degrees for students interested in a health-related field and will prepare students that are qualified to enter a variety of graduate and professional programs in the health sciences.
- Completion of the program will provide students with a strong background in the natural, social and health sciences while allowing a wide choice of elective courses to suit individual career and graduate/professional school requirements.

Participating Departments:
- Biology
- Chemistry
- Kinesiology and Recreation
- Mathematics
- Nursing
- Philosophy
- Psychology
- Physics and Engineering
- Sociology

Health Science majors should continually examine the catalog of the institution(s) they plan to attend to complete the courses required by the professional school(s), to fulfill additional entrance expectations and be aware of any changes in the requirements. The student should also communicate this information to his or her adviser.

Program Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours Required</th>
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<tbody>
<tr>
<td>Hours Required in HSCI:</td>
<td>4</td>
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<tr>
<td>Hours Required in Other Departments:</td>
<td>68</td>
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<td>Total Hours Required:</td>
<td>72</td>
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Requirements for Major in Health Science

1. Required GEP Courses
   - BIOL 149 General Biology I (GEP Group C)
   - CHEM 201 General Chemistry I (GEP Group C)
   - ENGL 101 Freshman Composition (Core Skill)
   - MATH 102 College Algebra (or higher) (Core Skill)
   - PSYC 150 General Psychology (GEP Group D)
   - SOCI 100 Introduction to Sociology (GEP Group D)

2. Health Science Required Courses
   (34 credits)
   - BIOL 160 General Zoology
   - BIOL 321/322 Anatomy and Physiology I/II or BIOL 302 Animal Physiology and BIOL 427 Comparative Anatomy
   - CHEM 202 General Chemistry II
   - HSCI 101 Medical Terminology
   - MATH 109 Statistics
   - PHIL 313 Biomedical Ethics
   - PHYS 215 General Physics I
   - PHYS 216 General Physics II
   - HSCI 491 Health Science Capstone

3. Health and Natural Science Electives
   (32 credits)
   - BIOL 304 Microbiology
   - BIOL 310 Cell Biology
   - BIOL 334 General Animal Behavior
   - BIOL 350 Genetics
   - BIOL 360 Virology
   - BIOL 401 Genetics Laboratory
   - BIOL 404 Histology
   - BIOL 412 General Parasitology
   - BIOL 435 Molecular Biology
   - BIOL 440 Developmental Biology
   - BIOL 445 Immunology
   - CHEM 305 Research Methods in Chemistry
   - CHEM 311/312 Organic Chemistry I
   - CHEM 321/322 Organic Chemistry II
   - CHEM 455 Biochemistry I
   - CHEM 456 Biochemistry Laboratory
   - CHEM 457 Biochemistry II
   - EXSS 200 Nutrition
   - EXSS 300 Advanced Nutrition
   - EXSS 303 Biomechanics for Exercise and Sport Science
EXSS 305 Care and Prevention of Athletic Injuries
EXSS 315 Nutrition for the Physically Active
EXSS 330 Exercise Epidemiology
EXSS 341 Psychology of Physical Activity
EXSS 401 Physiology of Exercise
EXSS 435 Lifespan Health and Fitness

4. Social Science Electives (6 credits)
PSYC 208 Introduction to Lifespan Development
PSYC 210 Child Development
PSYC 222 Adolescent and Adult Development
PSYC 214 Introduction to Geropsychology
PSYC 220 Psychology of Women
PSYC 250 Death and Dying
PSYC 317 Abnormal Psychology
PSYC 345 Animal Learning and Cognition
PSYC 386 Drugs and Human Behavior
PSYC 409 Human Learning and Cognition
PSYC 420 Physiological Psychology
PSYC 430 Health and Psychology
PSYC 489 Abnormal Child Psychology
SOCI 367 Sociology of Medicine
SOCI 420 Animals in Human Society
SOCI 466 Women, Health and Healing
SOCI 468 Sociology of Later Life