UNIVERSITY STUDIES (B.S.) HEALTH SCIENCES CONCENTRATION

Degree: Bachelor of Science
Major: University Studies
Concentration: Health Sciences
Total Hours: 120

Concentration Overview

The Health Sciences concentration allows students to explore select health sciences including Biology, Psychology, Sociology, and Social Work. Depending on the student’s interest, this degree can be tailored to include courses required for entry into Lamar University’s Nursing program. Students interested in using this degree as a foundation for graduate/professional school should consult their advisor(s) for methods to align coursework options for specific programs of advanced study.

Degree Requirements

120 semester hours minimum; 2.000 cumulative GPA minimum.

- 42 hours within general education core curriculum
  - Earning a letter grade of C or better in ENGL 1301 Composition I and ENGL 1302 Composition II is strongly encouraged.
- 36 hours within general electives block
  - Students intending to enter the pre-Nursing program must opt into the pre-Nursing track, which is shared with the general electives block.
- 42 hours within advanced electives block
  - All courses applied to the advanced electives block must have a letter grade of C or better.
  - A minimum of 12 hours of senior (4000) level coursework is required within the advanced electives block.
- AASC 3301 Lifelong Learning and Portfolio Development, AASC 4301 Senior Seminar, and ENGL 3311 Professional Writing (or ENGL 3310 Technical Report Writing with approval) are required courses for the advanced electives block.

Prerequisites for AASC 3301 Lifelong Learning and Portfolio Development include both ENGL 1301 Composition I and ENGL 1302 Composition II.

- Students declare a primary, a secondary, and a tertiary academic area; 12 hours are required for the primary and secondary areas while only 9 hours are required for the tertiary area. As early as possible, students should discuss their selection of academic areas and courses within each declared area with their academic advisors so that students are aware of course prerequisites, course rigor, course rotation/modality, etc.
- Academic areas and their respective course options are listed here:
  - Medical Biology: BIOL 3428 Comparative Anatomy, BIOL 3440 Advanced Physiology, BIOL 3470 Genetics, BIOL 4303 Medical Microbiology, BIOL 4404 Molecular Biology, BIOL 4405 Immunology, BIOL 4410 Parasitology, BIOL 4411 Biomedical Technology and Applications, BIOL 4413 Medical Neuroscience, BIOL 4470 Cell Biology/Histology, BIOL 4490 Comparative Physiology, BIOL 4101 Special Topics, BIOL 4201 Special Problems in Biology, BIOL 4300 Undergraduate Problems, and BIOL 4301 Biology Special Topics—can be considered when the topic is degree related.
  - Social Work: Two required SOWK 4320 Seminar—(topics to be selected by student) and choice among SOWK 3300 Human Behavior in the Social Environment I, SOWK 3320 Human Behavior in the Social Environment II, SOWK 3340 Social Welfare Policy & Services, and SOWK 3360 Promoting Social Justice.
  - Health Sociology: SOCI 3311 Medical Sociology, SOCI 4310 Population Problems, SOCI 4325 Aging Population and Health, SOCI 4335 Global Health Disparity, SOCI 4342 Epidemiology and Global Health; SOCI 4300 Seminar in Sociology—can be considered when the topic is degree related

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ENGL 1301</td>
<td>Composition I</td>
<td>3</td>
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<tr>
<td>ENGL 1302</td>
<td>Composition II</td>
<td>3</td>
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<tr>
<td>MATH 1314</td>
<td>College Algebra(Non-Calculus)</td>
<td>3</td>
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<tr>
<td>MATH 1316</td>
<td>Trigonometry</td>
<td>3</td>
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<tr>
<td>MATH 1324</td>
<td>Mathematics for Business and Social Sciences</td>
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<tr>
<td>MATH 1332</td>
<td>Contemporary Mathematics I</td>
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<tr>
<td>MATH 1342</td>
<td>Statistics</td>
<td></td>
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<tr>
<td>MATH 2311</td>
<td>Pre Calculus I</td>
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<tr>
<td>MATH 2312</td>
<td>Calculus and Elementary Functions</td>
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<tr>
<td>MATH 2413</td>
<td>Calculus and Analytical Geometry I</td>
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<tr>
<td>MATH 2414</td>
<td>Calculus and Analytical Geometry II</td>
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Select two of the following: 6

- BIOL 1406 General Biology I (Majors)
- BIOL 1407 General Biology II (Majors)
- BIOL 2401 Anatomy and Physiology I
- BIOL 2402 Anatomy and Physiology II
- GEOL 1403 Geology I: Physical Geology
- GEOL 1404 Geology II: Historical Geology
- PHYS 1401 College Physics I
- PHYS 1402 College Physics II
- PHYS 1405 Elementary Physics I
- PHYS 1407 Elementary Physics II
- PHYS 1411 Intro Astronomy
- SPSC 1401 Space Science

Language, Philosophy and Culture

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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>PHIL 1370</td>
<td>Philosophy of Knowledge</td>
<td>3</td>
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</table>
### University Studies (B.S.) Health Sciences Concentration

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>PHIL 2306</td>
<td>Ethics</td>
</tr>
<tr>
<td>DSDE 1374</td>
<td>Introduction to Deaf Studies</td>
</tr>
<tr>
<td>ENGL 2300</td>
<td>Close Reading II</td>
</tr>
<tr>
<td>ENGL 2322</td>
<td>British Literature</td>
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<tr>
<td>ENGL 2326</td>
<td>American Literature</td>
</tr>
<tr>
<td>ENGL 2331</td>
<td>World Literature</td>
</tr>
<tr>
<td>ENGL 2376</td>
<td>African-American Literature</td>
</tr>
<tr>
<td>FREN 2312</td>
<td>Intermediate French II</td>
</tr>
<tr>
<td>SPAN 2312</td>
<td>Intermediate Spanish II</td>
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### Creative Arts

Select one of the following:
- ARTS 1301 Art Appreciation
- ARTS 1303 Art History I
- DANC 2304 Dance Appreciation
- MUSI 1306 Music Appreciation
- COMM 1375 Film Appreciation
- COSC 1324 The Art of Computer Game Development
- MUSI 1306 Music Appreciation
- MUSI 1309 Jazz History and Appreciation
- MUSI 1310 History of Rock and Roll
- PHIL 1330 Arts and Ideas
- THEA 1310 Theatre Appreciation

### American History

Select two of the following:
- HIST 1301 U S History I 1763-1877
- HIST 1302 U S History II Since 1877
- HIST 2301 Texas History

### Government/Political Science

POLS 2301 Intro to American Government I
- 3 hours

POLS 2302 Intro/American Government II
- 3 hours

### Social and Behavioral Science

Select one of the following:
- ANTH 2346 Introduction to Anthropology
- ANTH 2351 Cultural Anthropology
- BULW 1370 Business Environment and Public Policy
- CRJ 1301 Intro to Criminal Justice
- ECON 1301 Principles and Policies
- ECON 2301 Principles of Economics I Macro
- ECON 2302 Principles of Economics II Micro
- FINC 2310 Intro to Consumer Finance
- INEN 2373 Engineering Economics
- POLS 2301 Intro to Political Science
- PSYC 2301 General Psychology
- PSYC 2315 Lifespan Development
- SOC 1301 Introduction to Sociology
- SOWK 2361 Intro Social Work

### Component Area Options

Complete six unique hours from other core curriculum areas
- 6 hours

### Required Courses

**AASC 3301** Lifelong Learning and Portfolio Development
- 3 hours

**AASC 4301** Senior Seminar
- 3 hours

**ENGL 3311** Professional Writing
- 3 hours

### Elective Courses

36 credit hours in 1000-4999

### Advanced Elective Courses

Select three areas from the following:
- 33 hours

**Medical Biology**
- BIOL 3428 Comparative Anatomy
- BIOL 3440 Advanced Physiology
- BIOL 3470 Genetics
- BIOL 4303 Medical Microbiology
- BIOL 4404 Molecular Biology
- BIOL 4405 Immunology
- BIOL 4410 Parasitology
- BIOL 4411 Biomedical Technology and Applications
- BIOL 4413 Medical Neuroscience
- BIOL 4470 Cell Biology/Histology
- BIOL 4490 Comparative Physiology
- BIOL 4101 Special Topics
- BIOL 4201 Special Problems in Biology
- BIOL 4300 Undergraduate Problems
- BIOL 4301 Biology Special Topics (When topic applies.)

**Psychology**
- PSYC 3320 Psychology of Personality
- PSYC 3330 Psychology of Social Interaction
- PSYC 3340 Industrial Psychology
- PSYC 3370 Child & Adolescent Psychology
- PSYC 3390 Positive Psychology
- PSYC 4310 Sensation and Perception
- PSYC 4320 Abnormal Psychology
- PSYC 4360 Learning and Cognition
- PSYC 4380 Behavioral Neuroscience
- PSYC 4390 Psychopharmacology
- PSYC 4391 Special Topics (When topic applies.)

**Social Work**
- SOWK 4320 Seminar
- 2 hours

**SOWK 3300** Human Behavior in the Social Environment I
- SOWK 3320 Human Behavior in the Social Environment II
- SOWK 3340 Soc Welfare Policy & Services
- SOWK 3360 Promoting Social Justice

**Health Sociology**
- SOCI 3311 Medical Sociology
- SOCI 4310 Population Problems
- SOCI 4325 Aging Population and Health
- SOCI 4335 Global Health Disparity
- SOCI 4342 Epidemiology and Global Health
- SOCI 4300 Seminar in Sociology (When topic applies.)

**Total Hours**
- 120 hours

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1. As early as possible, students should discuss their selection of academic areas with their academic advisor.
2. Student must take six hours of SOWK 4320 Seminar. Topics must vary.