

ENVIRONMENTAL SCIENCE, BACHELOR OF SCIENCE

Biology Specialization

2018-2019 Degree Plans

| University Core Requirements (43* Hours) | UHCL Course Title | TCCNS | CODE |
|---|---|-----------|------|
| Communications (6 hours): | WRIT 1301—Composition I (<i>Grade must be "C-" or better</i>) | ENGL 1301 | 010 |
| | WRIT 1302—Composition II (<i>Grade must be "C-" or better</i>) | ENGL 1302 | 010 |
| Mathematics (4* hours): | MATH 2413—Calculus I (<i>Grade must be "C-" or better</i>) | MATH 2413 | 020 |
| *Three (3) hours of Calculus will count toward the University Core and one (1) hour will count toward the Major | | | |
| Life and Physical Sciences (6 hours): | CHEM 1311—General Chemistry I (<i>lecture, Grade must be "C-" or better</i>) | CHEM 1311 | 030 |
| | CHEM 1312—General Chemistry II (<i>lecture, Grade must be "C-" or better</i>) | CHEM 1312 | 030 |
| Language, Philosophy, and Culture (3 hours): | Choose ONE course from the core approved list | | 040 |
| Creative Arts (3 hours): | Choose ONE course from the core approved list | | 050 |
| U.S. History (6 hours): | HIST 1301—U.S. History I | HIST 1301 | 060 |
| | HIST 1302—U.S. History II | HIST 1302 | 060 |
| Government/Political Science (6 hours): | POLS 2305—Federal Government | GOVT 2305 | 070 |
| | POLS 2306—Texas Government | GOVT 2306 | 070 |
| Social/Behavioral Science (3 hours): | Choose ONE course from the core approved list | | 080 |
| Component Area Option (6 hours): | COMM 1315—Public Speaking | SPCH 1315 | 090 |
| | PSYC 1100—Learning Frameworks | PSYC 1100 | 090 |
| | CHEM 1111—Lab General Chemistry I (<i>Grade must be "C-" or better</i>) | CHEM 1111 | 090 |
| | CHEM 1112—Lab for General Chemistry II (<i>Grade must be "C-" or better</i>) | CHEM 1112 | 090 |

| Major Requirements (33 hours) | UHCL Course Title | TCCNS* | CODE |
|---|--|----------------|---------|
| Required minimum grade is "C-" in the following classes: | | | |
| | WRIT 3315—Technical Writing | | |
| | PHYS 1301/1101—College Physics I & Lab | PHYS 1301/1101 | 030/090 |
| | PHYS 1302/1102—College Physics II & Lab | PHYS 1302/1102 | 030/090 |
| | STAT 3308—Computational Statistics | | |
| | CHEM 2323/2123—Organic Chemistry I & Lab | CHEM 2323/2123 | |
| | ENSC 3332/CHEM 3333—Environmental Chemistry | | |
| | ENSC 3331/BIOL 3333—Environmental Biology | | |
| | ENSC 3333/GEOL 3333—Environmental Geology | | |
| | INDH 3333—Environmental Hygiene and Safety | | |
| | ENSC/BIOL 43xx—3 hours: Internship, Independent Study, Seminar or Advanced Studies | | |

| Specialization Requirements (29 hours) | UHCL Course Title | TCCNS | CODE |
|---|--|----------------|---------|
| Required minimum grade is "C-" for all Specialization Requirements | | | |
| | BIOL1306/1106—Biology for Science Majors I & Lab | BIOL 1306/1106 | 030/090 |
| | BIOL 1307/1107—Biology for Science Majors II & Lab | BIOL 1307/1107 | 030/090 |
| | BIOL 4311—Ecology | | |
| | BIOL 4323—Field Biology | | |
| | ENSC 4325—Environmental Toxicology | | |

Specialization Requirements (29 hours, continued)

ENSC 4251/CHEM 4251—Lab for Environmental Analysis
CHEM 4355—Environmental Sampling and Monitoring

Choose one of the following three options (4 hours):

BIOL 2428—Vertebrate Zoology with included lab
BIOL 3313/3113—Plant Anatomy and Lab
BIOL 4313/4113—Biology of Fishes & Lab

Choose one of the following three options (3 hours):

BIOL 4344—Comparative Animal Physiology
BIOL 4343—Plant Physiology

Specialization Electives (15 hours)**Required minimum grade is "C-" for all Specialization Electives**

Specialization electives are junior or senior level science or related classes. Choose from: BIOL 2321, 2121, 3316, 4211, 4225, 4314/4114, 4327, 4334; CHEM 4352, 4356; GEOL 3305, 3307, 4323, 4326, 4327, 4335; ENVR 4313, 4315

General Degree Requirements

- Students must complete at least 120 semester credit hours. A minimum of 45 hours of the 120 semester hours must be advanced (3000-4000 level) course work according to the requirements of the respective major.
- Students must complete the University Core Curriculum requirements (refer to Core Curriculum Requirements section of this catalog).
- Students must fulfill the statutory requirements of the Texas State Education Code, including the following:
 - Six hours of U.S. History (three hours may be Texas History).
 - Six hours of Constitutions of the United States and Texas.
- Students must demonstrate writing proficiency by completing nine hours of lower-level (1000-2000 level) and upper-level (3000-4000 level) English composition course credit with a minimum grade of "C-" or better. Some majors may require higher grades in English composition.
- Students must complete at least 25% of the credit hours required for the degree (i.e., 30 semester credit hours for a 120 credit hour program) through instruction offered by UHCL to fulfill the Southern Association of Colleges and Schools (SACS) residency requirements.
- Students must complete the final 30 semester hours of 3000 and 4000 level course work in residence at UHCL.
- Students must complete a minimum of 12 semester credit hours of upper-level (3000-4000 level) coursework in the major in residence at UHCL.
- Students must have a cumulative GPA of 2.000 on course work completed at UHCL with grades of "C" or better on at least 30 hours of resident upper-level work. Grades of "C-" or below cannot be applied toward the 30 hours of resident upper-level work.