

SCHOOL OF SCIENCE & COMPUTER ENGINEERING

Environmental Science

Bachelor of Science at UHCL

(2008-2009 2+2 Transfer Plan to University of Houston-Clear Lake)

With Specializations in Environmental Biology/Environmental Chemistry/Environmental Geology/Industrial Hygiene/Safety



UNIVERSITY-REQUIRED TRANSFER COURSES

FOOTNOTE	CORE CURRICULUM REQUIREMENT	HR	CODE	FOOTNOTE	ADDITIONAL FOUNDATION REQUIREMENTS	HRS
a	ENGL 1301 Composition	3	10		Foundation for All Environmental Science Sub-plans	
a, #	ENGL 2311 Tech Writing (preferred) or ENGL1302	3	10	c, #	PHYS 1401 College Physics I	4
b	Speech Communication**	3	11	c, #	PHYS 1402 College Physics II	4
c, #	MATH 2413 Calculus I	4	20		-For Biology and Chemistry only	
#	CHEM 1411 General Chemistry I	4	30	#	BIOL 1406 General Biology I	4
#	CHEM 1412 General Chemistry II	4	30	#	BIOL 1407 General Biology II	4
d	Humanities**	3	40		-For Industrial Hygiene and Safety only	
e, #	Visual & Performing Arts **	3	50	#	BIOL 2401 Human Anatomy & Physiology I	4
f	HIST 1301 American History I**	3	60	#	BIOL 2402 Human Anatomy & Physiology II	4
f	HIST 1302 American History II** or HIST 2301,2302 or 2303 Texas History	3	60	#		
f	GOVT 2301 Government I	3	70		-For Geology only	
f	GOVT 2302 Government II	3	70	#	GEOL 1403 Physical Geology	4
g	Social & Behavioral Science **	3	80	#	GEOL 1404 Historical Geology	4
h	Computer Competency	3	90			
		45				16
Total transfer credit hours						61

EXPLANATION OF FOOTNOTES

- * UHCL's requirements are consistent with the 42-hour Texas core curriculum. If a student completes components of the core at one Texas institution, those courses will substitute for UHCL's same core components. If a student is core complete at any Texas Institution the student is also core complete at UHCL, however, foundation (#) courses are still required. The Core Code is used by Texas schools to identify which area of the 42-hour core curriculum a course fulfills.
- ** These courses may be fulfilled by approved upper-level equivalents at UHCL.
- # These courses are included in the Program Foundation and must be completed with a grade of "C-" or better.
- a Admission to UHCL requires **prior** completion of six hours of English Composition/Writing classes with grade of "C-" or better. *ENGL 1301 Composition I* (3 hrs) is an admission requirement for all UHCL applicants. *ENGL 2311 Technical Writing (3 hrs)*, a program foundation course, will satisfy the second (3 hr) English entrance requirement for UHCL Science and Computer Engineering majors if taken at the transfer institution **prior** to admission. If an applicant takes *ENGL 1302 Composition II* instead of Technical Writing, UHCL entrance requirements are satisfied, but *Technical Writing* must also be completed before graduation. (At UHCL, WRIT 3135 can be taken as a designated elective
- b Suggested courses for Speech/Communication include: any SPCH course. At some community colleges, foreign languages may also fulfill state core speech requirements.
- c Transfer institutions may require one or more prerequisites for these required program foundation courses, depending on the individual student's high school preparation and test scores. Students are advised to take all prerequisites required for them by their particular transfer institution. Non-remedial prerequisite courses will be transferred as lower-level electives, as needed.
- d Suggested courses for Humanities include any ENGL literature, HUMA, PHIL, RELI, or sophomore-level foreign language course – also any SPCH or HIST taken in addition to core requirements.
- e Suggested courses for Visual & Performing Arts include: any ARTS, DANC, DRAM, MUSI, or MUAP course. Three semester credit hours required.
- f Six hours of U.S. History required; three hours may be in Texas History. Six hours of U.S. Government are required and three of the six hours must, by state law, include Texas Constitutional Government.
- g Suggested courses for Social & Behavioral Science include: any ANTH, ECON, GEOG, PSYC, or SOCI course - also any GOVT, HIST, or POLS course taken in addition to core requirements.
- h Suggested courses for Computer Competency include any COSC or CSCI course. Other courses may meet this requirement. Please check with an advisor on your campus.

SCHOOL OF SCIENCE & COMPUTER ENGINEERING

Bachelor of Science in Environmental Science

2008-2009 Catalog

GENERAL DEGREE REQUIREMENTS

- 120 semester hours of applicable college credit are required for the Bachelor of Arts or the Bachelor of Science degrees. A maximum of three hours of lower-level "activities" credits may apply toward graduation. If approved, up to 18 hours of lower-level correspondence, extension or CLEP credit may apply as lower level credit toward graduation accordance with catalog rules
- At least 30 hours of the degree plan, including at least 12 hours in the major, must be completed in residence at UHCL.
- A cumulative GPA of at least 2.000 must be maintained for course work completed at UHCL, with grades of "C" or better in at least 30 hours of UHCL classes.
- Students must remain continuously enrolled (complete at least one course in a 12 month period) or meet the requirements of a later catalog.
- Students must complete the degree within seven years or meet requirements of a later catalog.

BASIC REQUIREMENTS

For the degree being pursued, program requirements listed on the transfer plan section of this document and indicated by the #sign should be completed with grades of "C-" or better before beginning the upper level program and finalizing a Candidate Plan of Study. All program core requirements must be completed with a grade of "C-" or better.

B.S. IN ENVIRONMENTAL SCIENCE - UHCL UPPER-LEVEL REQUIREMENTS (59 HOURS)

ENVIRONMENTAL SCIENCE CORE REQUIREMENTS FOR ALL SUB-PLANS (21 HOURS)

GEOL 3333	Environmental Geology	3 hrs	INDH 3333	Environmental Safety & Health	3 hrs
CHEM 3333	Environmental Chemistry	3 hrs	CHEM 3233	Organic Chemistry I	3 hrs
BIOL 3333	Environmental Biology	3 hrs	MATH 3038	Statistics	3 hrs
Choose one of these 4 courses (with faculty advisor approval): 1) Internship, 2) Independent Study, 3) Seminar, 4) Advanced Studies					3 hrs

SUB-PLANS – CHOOSE ONE (38 HOURS)

Biology Sub-plan

BIOL 3334	Env. & Public Hlth. Microbiol	3 hrs
BIOL 4131	Ecology	3 hrs
BIOL 4434	Comparative Animal Physiology	3 hrs
BIOL 4235	Environmental Toxicology	3 hrs
CHEM 4521	Lab for Environmental Analysis	2 hrs
CHEM 4535	Envr. Sampling & Monitoring	3 hrs
Designated Electives (require faculty advisor approval)		21 hrs

Chemistry Sub-plan

CHEM 3230	Survey of Physical Chemistry	3 hrs
CHEM 3234	Organic Chemistry II	3 hrs
CHEM 4521	Lab for Environmental Analysis	2 hrs
CHEM 4532	Water Chemistry & Water Pollution	3 hrs
CHEM 4535	Envir. Sampling & Monitoring	3 hrs
CHEM 4536	Soil and Groundwater Remediation	3 hrs
CHEM 4635	Analytical Chemistry I	3 hrs
CHEM 4636	Analytical Chemistry II	3 hrs
Designated Electives (require faculty advisor approval)		15 hrs

Industrial Hygiene Sub-plan

INDH 3131	Industrial Health & Hygiene	3 hrs
INDH 3332	Principles of Safety	3 hrs
INDH 4131	Noise and Hearing Conservation	3 hrs
INDH 4133	Industrial Ventilation	3 hrs
INDH 4135	Industrial Radiological Health	3 hrs
INDH 4231	Ergon, Hum Facts & Wrkspce Des.	3 hrs
INDH 4232	IH Sampling & Analysis	3 hrs
BIOL 4235	Environmental Toxicology	3 hrs
Designated Electives (require faculty advisor approval)		14 hrs

Safety Sub-plan

INDH 3131	Industrial Health and Hygiene	3 hrs
INDH 3332	Principles of Safety	3 hrs
INDH 3430	Techniques of Safety Eng & Analysis	3 hrs
INDH 4231	Ergon, Hum Facts & Wrkspce Des.	3 hrs
INDH 4232	IH Sampling and Analysis	3 hrs
INDH 4236	Accident Investigation & Sys Safety	3 hrs
INDH 4333	Construction & General Industry Safety	3 hrs
Designated Electives (require faculty advisor approval)		17 hrs

Geology Sub-plan

GEOL 3631	Photogeology	3 hrs	GEOL 4531	Geology of Groundwater	3 hrs
GEOL 4222	Laboratory for Geomorphology	2 hrs	CHEM 4521	Laboratory For Environmental Analysis	3 hrs
GEOL 4234	Geomorphology	3 hrs	CHEM 4535	Environmental Sampling and Monitoring	3 hrs
GEOL 4235	Sedimentation and Stratigraphy	3 hrs	Designated Electives (require faculty advisor approval)		18 hrs



University
of Houston
Clear Lake

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