

UNIVERSITY-REQUIRED TRANSFER COURSES Environmental Science

Bachelor of Science at UHCL

2009-2010 2+2 Transfer Plan to University of Houston-Clear Lake

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

FOOTNOTE	CORE CURRICULUM REQUIREMENT	HR CODE	FOOTNOTE	ADDITIONAL FOUNDATION REQUIREMENTS	HR
a	ENGL 1301 Composition	3 10		Foundation for <u>All</u> 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	3 20			
#	CHEM 1411 General Chemistry I	4 30		-For Biology and Chemistry only	
#	CHEM 1412 General Chemistry II	4 30	#	BIOL 1406 General Biology I	4
d	Humanities**	3 40	#	BIOL 1407 General Biology II	4
e, #	Visual & Performing Arts **	3 50			
f	HIST 1301 American History I**	3 60		-For Industrial Hygiene and Safety only	
f	HIST 1302 American History II** or HIST 2301,2302 or 2303 Texas History	3 60	#	BIOL 2401 Human Anatomy & Physiology I	4
f	GOVT 2301 Government I	3 70	#	BIOL 2402 Human Anatomy & Physiology II	4
f	GOVT 2302 Government II	3 70		-For Geology only	
g	Social & Behavioral Science **	3 80	#	GEOL 1403 Physical Geology	4
h	Computer Competency	3 90	#	GEOL 1404 Historical Geology	4
		44			16
				Total transfer credit hours	60

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 a 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.



**University
of Houston
Clear Lake**

2700 Bay Area Blvd.
Houston, TX 77058
www.UHCL.edu

Bachelor of Science in Environmental Science

2009-2010 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. At least 60 hours must be upper-level.
- 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. **Technical Writing is required for all sub-plans.**

B.S. IN ENVIRONMENTAL SCIENCE - UHCL UPPER-LEVEL REQUIREMENTS (60 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)			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)		
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 Factrs & Wrkspce Des. 3 hrs INDH 4232 IH Sampling & Analysis 3 hrs BIOL 4235 Environmental Toxicology 3 hrs Designated Electives (require faculty advisor approval)			Safety Sub-plan INDH 3131 Industrial Health and Hygiene INDH 3332 Principles of Safety INDH 3430 Techniques of Safety Eng & Analysis INDH 4231 Ergon, Hum Factrs & Wrkspce Des. INDH 4232 IH Sampling and Analysis INDH 4136 Accident Investigation & Sys Safety INDH 4333 Construction & General Industry Safety Designated Electives (require faculty advisor approval)		
Geology Sub-plan GEOL 3631 Photogeology 3 hrs GEOL 4222 Laboratory for Geomorphology 2 hrs GEOL 4234 Geomorphology 3 hrs GEOL 4235 Sedimentation and Stratigraphy 3 hrs Designated Electives (require faculty advisor approval)			GEOL 4531 Hydrogeology 3 hrs CHEM 4521 Laboratory For Environmental Analysis 3 hrs CHEM 4535 Environmental Sampling and Monitoring 3 hrs Designated Electives (require faculty advisor approval)		

School of Science and Computer Engineering Advising Office

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