

UNIVERSITY-REQUIRED TRANSFER COURSES Environmental Science

Bachelor of Science at UHCL

2012-2013 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 I	3 10		Foundation for <u>All</u> Environmental Science Sub-plans	
a	ENGL1302 Composition II or #ENGL 2311 Tech Writing	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) which must include ENGL 1301 Composition I plus **either** ENGL 1302 Composition II **or** ENGL 2311 Technical Writing. If ENGL 1302 is chosen as the second English class, then Technical Writing can be completed as an upper-level elective at UHCL, WRIT 3135. This is usually the best strategy.
Graduation requires **nine** hours of English composition/writing classes. Students will graduate with fewest hours if they take ENGL 1301 and 1302 at community college, and wait to take WRIT 3135 Technical Writing as an elective at UHCL. Academic advisors will determine each individual's composition requirements when they create the draft degree plan the first semester of the student's enrollment.
- 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.

The Texas State Legislature limits the number of hours undergraduates can attempt in excess of the hours required for their degree without incurring a financial penalty. A recovery fee of \$130 per semester credit hours is added to regular tuition for students who exceed the limits. Attempted hours include credits completed plus withdrawals and repeats. Undergraduates who enrolled in a Texas public college or university between Fall 1999 and Summer 2006 are allowed 45 attempted hours in excess of those required for their degree (120) and undergraduates who enrolled Fall 2006 and later are allowed 30 excess attempted hours. When these limits are exceeded, the penalty goes in to effect. Details at: <http://prtl.uhcl.edu/portal/page/portal/AR/excess-hours>



**University
of Houston
Clear Lake**

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

Bachelor of Science in Environmental Science

2012-2013 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 30 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 minimum of 9 hours of lower-level and upper-level composition course credits are required for the bachelor's degree.
- 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 (24 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
WRIT 3135	Technical Writing or other approved WRIT	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 (36 HOURS)

Biology Sub-plan			Chemistry Sub-plan		
BIOL 4334	Environmental Microbiology	3 hrs	CHEM 3230	Survey of Physical Chemistry	3 hrs
BIOL 4131	Ecology	3 hrs	CHEM 3234	Organic Chemistry II	3 hrs
BIOL 4233	Field Biology	3 hrs	CHEM 4521	Lab for Environmental Analysis	2 hrs
BIOL 4235	Environmental Toxicology	3 hrs	CHEM 4532	Water Chemistry & Water Pollution	3 hrs
BIOL 4434	Comparative Animal Physiology	3 hrs	CHEM 4535	Environmental Sampling & Monitoring	3 hrs
CHEM 4521	Lab for Environmental Analysis	2 hrs	CHEM 4536	Soil and Groundwater Remediation	3 hrs
CHEM 4535	Environmental Sampling & Monitoring	3 hrs	CHEM 4635	Analytical Chemistry I	3 hrs
Choose from	BIOL 3031/3011, 3131, 4035, 4133/4113 or BIOL 4237	3-4 hrs	CHEM 4636	Analytical Chemistry II	3 hrs
Designated Electives (require faculty advisor approval)			Designated Electives (require faculty advisor approval)		
12-13 hrs			13 hrs		
Industrial Hygiene Sub-plan – Accredited by ABET, Inc.			Safety Sub-plan – Accredited by ABET, Inc.		
INDH 3131	Industrial Health & Hygiene	3 hrs	INDH 3131	Industrial Health and Hygiene	3 hrs
INDH 3332	Principles of Professional Safety	3 hrs	INDH 3332	Principles of Professional Safety	3 hrs
INDH 4131	Noise and Hearing Conservation	3 hrs	INDH 3430	Techniques of Safety Eng & Analysis	3 hrs
INDH 4133	Industrial Ventilation	3 hrs	INDH 4231	Ergonomics Human Factrs & Wrkspce Des.	3 hrs
INDH 4135	Industrial Radiological Health	3 hrs	INDH 4232	IH Sampling and Analysis	3 hrs
INDH 4231	Ergonomics Human Factrs & Wrkspce Des.	3 hrs	INDH 4136	System Safety & Accident Investigation	3 hrs
INDH 4232	IH Sampling & Analysis	3 hrs	INDH 4233	Hazardous Materials & Emergency Mgmt	3 hrs
BIOL 4235	Environmental Toxicology	3 hrs	INDH 4234	Fire Safety Engineering	3 hrs
Designated Electives (require faculty advisor approval)			Designated Electives (require faculty advisor approval)		
12 hrs			9 hrs		
Geology Sub-plan					
GEOL 3631	Photogeology	3 hrs	GEOL 4531	Hydrogeology	3 hrs
GEOL 4222	Laboratory for Geomorphology	2 hrs	CHEM 4521	Laboratory For Environmental Analysis	2 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)		
			17 hrs		

Note: The upper level course lists are subject to change, but the number of hours (60 upper level and 120 total) will still be valid.

School of Science and Computer Engineering Advising Office

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