

UNIVERSITY-REQUIRED TRANSFER COURSES

Chemistry

Bachelor of Arts or Bachelor of Science at UHCL

2012-2013 2+2 Transfer Plan to University of Houston-Clear Lake

FOOTNOTE	CORE CURRICULUM REQUIREMENTS*	HRS	CODE	FOOTNOTE	ADDITIONAL FOUNDATION REQUIREMENTS	HRS
a	ENGL 1301 Composition	3	10		FOUNDATIONS FOR BA DEGREE*	
a, #	ENGL 1302 or #ENGL 2311 Tech Writing	3	10	j #	PHYS 1401 College Physics I with Lab	4
b	Speech Communication**	3	11	j, #	PHYS 1402 College Physics II with Lab	4
c, #	MATH 2413 Calculus I	4	20		Electives	7
d, #	CHEM 1411 General Chemistry I with Lab	4	30			15
d, #	CHEM 1412 General Chemistry II with Lab	4	30		FOUNDATIONS FOR B.S. DEGREE *	
e	Humanities**	3	40	c, #	MATH 2414 Calculus II	4
f	Visual & Performing Arts **	3	50	j, #	PHYS 2425 University Physics I with Lab**	4
g	HIST 1301 American History I**	3	60	j, #	PHYS 2426 University Physics II with Lab**	4
g	HIST 1302 American History II** or HIST 2301, 2302 or 2303 Texas History	3	60		Elective	3
g	GOVT 2301 Government I	3	70			15
g	GOVT 2302 Government II	3	70		ADDITIONAL FOUNDATIONS FOR CHEMICAL & BIOLOGICAL TECHNOLOGY SUB-PLAN	
h	Social & Behavioral Science **	3	80		BIOL 1406 & 1407 General Biology I & II	(8)
i, #	Scientific Programming Language **	3	90			
		45*			Total transfer credits for B.A.	60
					Total transfer credits for B.S.	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 High school math or community college testing determine prerequisites needed. Non-remedial prerequisites courses will be transferred as lower-level electives. MATH 2413, Calculus I is required for both the B.A. and the B.S. degree. MATH 2414, Calculus II is recommended for the B.A. and required for the B.S.
- d General Chemistry I and II *must* be completed before the student can begin the bachelor's program at UHCL. Check with your counselor for further information.
- e Suggested courses for Humanities include SPCH or HIST (in addition to core requirements), any ENGL literature, HUMA, PHIL, RELI, or sophomore-level foreign language course.
- f Suggested courses for Visual & Performing Arts include: any ARTS, DANC, DRAM, MUSI, or MUAP course. Three semester credit hours required.
- g 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.
- h Suggested courses for Social & Behavioral Science include: any ANTH, ECON, GEOG, PSYC, or SOCI course. Also any GOVT, HIST, or POLS course in addition to core requirements.
- i The Chemistry BS and BA degrees both require a scientific programming language such as Visual Basic, Pascal, Java or C++. Prerequisite courses are generally required and will satisfy the state core computer competency requirement.
- j College Physics I and II, PHYS 1401 and PHYS 1402, are acceptable for the BA degree; University Physics I and II, PHYS 2425 and PHYS 2426, are preferred for the BS degree.

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

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Bachelor of Arts/Bachelor of Science in Chemistry

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 in accordance with catalog rules
- At least 30 hours of the degree plan must be completed in residence at UHCL. For the B.A. at least 15 hours in the CHEM rubric must be successfully completed at UHCL. For the B.S. at least 18 hours in the CHEM rubric must be successfully completed 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.

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 upper-level program core and designated elective requirements must be completed with a grade of "C-" or better.

Bachelor of Arts in Chemistry - UHCL degree requirements (60 hrs)

Lower level credit given for any of the following courses may require students to take additional approved technical electives to satisfy program requirements.

Upper Level Core Requirements:

CHEM 3233, 3234,3224	Organic Chemistry I, II and Lab	8 hrs
CHEM 4635, 4636,4622	Analytical Chemistry I, II and Lab	8 hrs
CHEM 4335, 4325	Inorganic Chemistry and Lab	5 hrs
CHEM 3230 -	Survey of Physical Chemistry	3 hrs
CHEM 4637	Instrumental Analysis	3 hrs
CHEM 4732	Chemistry Seminar	3 hrs
CHEM 4733	Quantitative Chemical Analysis	3 hrs
MATH 3038 - or - MATH 3131	Statistics - or - Introduction to Linear Algebra	3 hrs
Advanced CHEM	Advanced Chemistry Elective (approved by faculty advisor)	3 hrs
DESIGNATED ELECTIVES	Upper-level Designated Electives : Choose from WRIT 3135, CHEM 4638, CHEM 4731, CHEM 4639, CHEM 4535, CHEM 4521, CHEM 4431, CHEM 4131, CHEM 4135 , CHEM 3333, CHEM 4130	21 hrs

Bachelor of Science in Chemistry - UHCL requirements (60 hrs)

Lower level credit given for any of the following courses may require students to take additional approved technical electives to satisfy program requirements.

Upper Level Core Requirements:

CHEM 3233, 3234,3224	Organic Chemistry I, II and Lab	8 hrs
CHEM 4635, 4636,4622	Analytical Chemistry I, II and Lab	8 hrs
CHEM 4335, 4325	Inorganic Chemistry and Lab	5 hrs
CHEM 4732	Chemistry Seminar	3 hrs
CHEM 4231, 4232, 4222	Physical Chemistry I, II, and Lab I	8 hrs
CHEM 4431	Biochemistry	3 hrs
CHEM 4638	Advanced Organic Chemistry	3 hrs
CHEM 4729	Undergraduate Chemistry Research	2 hrs
CHEM 4130	Chemical Calculations	3 hrs
CHEM 4637	Instrumental Analysis	3 hrs
CHEM 4731	Advanced Spectroscopic Analysis	3 hrs
CHEM4733	Quantitative Chemical Analysis	3hrs

DESIGNATED ELECTIVES WRIT 3135 or other approved upper-level WRIT course if needed (9 hrs English composition required)
Upper-level Designated Electives from subplan or with approval of faculty advisor 8 hrs

Forensic Chemistry Sub-plan: Select from: CHEM 4633 Forensic Chemistry, BIOL 4335 Forensic Biology, CRIM 3132 Criminology, CRIM 4330 Criminal Investigation, CRIM 4334 Criminal Law, CHEM 4535 Environmental Sampling & Monitoring, BIOL 4235 Environmental Toxicology

Chemical & Biological Technology Sub-Plan: Required: BIOL 3431 Genetics, BIOL 4531 Molecular Biology, CHEM 4730 Industrial Chemistry. Select one or more of the following: BIOL 3134, 4434 or 4435 Plant, Animal or Human Physiology, BIOL 4437 Cellular Physiology, BIOL 4522 Molecular Biology Lab, or BIOL 4523 Lab for Biotechnology

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

School of Science and Computer Engineering Advising Office

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