

SCHOOL OF SCIENCE & COMPUTER ENGINEERING

Chemistry

Bachelor of Arts or Bachelor of Science at UHCL

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



UNIVERSITY-REQUIRED TRANSFER COURSES

FOOTNOTE	CORE CURRICULUM REQUIREMENTS*	HRS	CODE	FOOTNOTE	ADDITIONAL FOUNDATION REQUIREMENTS	HRS
a	ENGL 1301 Composition	3	10		FOUNDATIONS FOR BA DEGREE*	
a, #	ENGL 2311 Tech Writing (preferred) or ENGL 1302	3	10	i, #	Scientific Programming Language**	3
b	Speech Communication**	3	11	j #	PHYS 1401 College Physics I	4
c, #	MATH 2413 Calculus I	4	20	j, #	PHYS 1402 College Physics II	4
d, #	CHEM 1411 General Chemistry I	4	30		Elective	4
d, #	CHEM 1412 General Chemistry II	4	30			15
e	Humanities**	3	40		FOUNDATIONS FOR B.S. DEGREE *	
f	Visual & Performing Arts **	3	50	c, #	MATH 2414 Calculus II	4
g	HIST 1301 American History I**	3	60	i, #	Scientific Programming Language**	3
g	HIST 1302 American History II** or HIST 2301, 2302 or 2303 Texas History	3	60	j, #	PHYS 2425 University Physics I**	4
g	GOVT 2301 Government I	3	70	j, #	PHYS 2426 University Physics II**	4
g	GOVT 2302 Government II	3	70			15
h	Social & Behavioral Science **	3	80			
i, #	Computer: Intro to Computers/Programming	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 six hours of English Composition with grade of "C-" or better. ENGL 1301 is required for the first 3 hrs. Chemistry majors may choose *either* ENGL 1302 *or* ENGL 2311 to meet the last 3 hours of the entrance requirement. Technical Writing is not mandatory for Chemistry majors, although all other science majors require this course.
 - 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.

Bachelor of Arts/Bachelor of Science in Chemistry

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 in 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.

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.

CORE

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	Inorganic Chemistry (lab not required for B.A.)	3 hrs
CHEM 4732	Chemistry Seminar	3 hrs
CHEM 3230 – or – CHEM 4231	Survey of Physical Chemistry – or – Physical Chemistry I	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

ELECTIVES	Upper-level General Electives	29 hrs
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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.

CORE

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	3 hrs
CHEM 4431	Biochemistry	3 hrs
CHEM 4638	Advanced Organic Chemistry	3 hrs
CHEM 4729	Undergraduate Chemistry Research	3 hrs
Advanced MATH	Advanced Math – approved by faculty advisor	3 hrs

ELECTIVES	Upper-level General Electives	21 hrs
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University
of Houston
Clear Lake

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