

2+2 TRANSFER PLAN TO
UNIVERSITY OF HOUSTON-CLEAR LAKE

Office of Admissions
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CHEMISTRY

(B.A./B.S. at UHCL; A.A./A.S. at Community College)

University-Required Transfer Courses

| <u>Foot- notes</u> | <u>Core Curriculum Requirements*</u> | <u>Core #</u> | <u>4</u> | <u>Foot- notes</u> | <u>Program Foundation Courses</u> | |
|------------------------|---|---------------|----------|------------------------|--|---|
| a | ENGL 1301 - Composition I | 3 | 10 | i,# | MATH 2414 – Calculus II (BS) or elective (BA) | 4 |
| a | ENGL 1302 – Composition II | 3 | 10 | j,# | PHYS 1401 & 1402 or 2425** & 2426** | 8 |
| b | Humanities | 3 | 40 | k,# | CHEM 2423 & 2425 - Organic Chemistry I/II** | 8 |
| c | HIST 1301 – American History I | 3 | 60 | | | |
| c | HIST 1302 – American History II, or HIST 2301,2302 or 2303 – Texas History | 3 | 60 | l | <u>Prerequisites &/or Remedial Courses</u> | |
| | GOVT 2301 – Government I | 3 | 70 | | MATH 1316 – Trigonometry | 3 |
| | GOVT 2302 – Government II | 3 | 70 | | MATH 2312 or 2412 – Elementary Functions/Precal | 4 |
| d,# | MATH 2413 – Calculus I (or higher) | 4 | 20 | | _____ | |
| e | Visual & Performing Arts ** | 3 | 50 | | _____ | |
| # | CHEM 1411 – General Chemistry I | 4 | 30 | | _____ | |
| # | CHEM 1412 – General Chemistry II | 4 | 30 | | _____ | |
| f | Social & Behavioral Science ** | 3 | 80 | l | <u>Additional Courses for the Associate Degree</u> | |
| g | Speech Communication | 3 | 11 | | _____ | |
| h,# | Intro to Computer Programming | 3 | 90 | | _____ | |
| | | | 45* | | | |

Explanation of Footnotes

- \ Associate degree requirements at the community college, including the minimum allowed grade point average, are found in the community college catalog in effect during the student’s initial semester of continuous enrollment. See a community college counselor for more information. Please note that not all courses are offered at all community colleges. Check with your counselor for availability of courses on your campus.
- * UHCL’s requirements are consistent with the 42- hour Texas core curriculum. If a student completes a component of the core at one Texas institution, that block of courses will be substituted for UHCL’s same core component(s). Additional Program Foundation courses are required. **Please refer to your school’s core requirements for specific courses in each area below.**
- ** These courses may be fulfilled by approved upper-level equivalents at UHCL.
- # These courses are included in the Program Foundation Core and must be completed with a grade of “C-“ or better.
- a Must complete six hours of Composition with grade of “C-“ or better. Three hours of technical writing are required by the School of Science and Computer Engineering.
- b Suggested courses for Humanities include: any ENGL literature, HUMA, PHIL, RELI, SPCH or HIST (in addition to core requirements), or sophomore-level foreign language course.
- c Six hours of American History required; three hours may be in Texas History.
- d MATH 2413 may require prerequisites.
- e Suggested courses for Visual & Performing Arts include: any ARTS, DANC, DRAM, MUSI, or MUAP course. Three semester hours credit required.
- f 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.
- g Suggested courses for Speech/Communication include: any SPCH course.
- h May choose from C++, C, JAVA, VISUAL BASIC, BASIC, FORTRAN, or PASCAL. These courses may have prerequisites.
- i **For B.S. degree take MATH 2414. B.A. degree may take an elective.**
- j **For B.S. degree take PHYS 2425 & 2426; B.A. degree may take PHYS 1401 & 1402 or PHYS 2425 & 2426.**
- k **For B.A. or B.S. 8 hours of Organic Chemistry are required; all should be completed at the same institution.**
- l With the exception of remedial courses, these courses will count toward the bachelor’s degree at UHCL as lower-level electives. These courses are either prerequisite courses for required university courses, courses required for the associate degree, or are required remedial courses to satisfy the TASP mandate.
- 4 The core component number is used by Texas schools to identify which area of the 42-hour core curriculum a course fills.

**SCHOOL OF SCIENCE AND COMPUTER ENGINEERING
BACHELOR OF ARTS/BACHELOR OF SCIENCE
IN CHEMISTRY
2005-2006 CATALOG**

GENERAL DEGREE REQUIREMENTS

- * A total of 123 semester hours of applicable college credit for the bachelor of arts degree; a minimum of 132 hours for the bachelor of science degree. A maximum of three hours of lower-level "activities" courses may be applied toward graduation. No more than 18 semester hours of previously earned lower-level credit may have been taken by correspondence, extension or CLEP.
- * At least 54 semester hours of upper-level work. Correspondence, extension or CLEP credit cannot be used to fulfill this requirement.
- * At least 30 hours of the degree plan, including 12 hours in the major, must be taken in residence at UHCL.
- * A cumulative GPA of 2.000 on course work completed at UHCL with grades of "C" or better on at least 30 hours of resident upper-level work. Grades of "C-" and below can not be applied toward the 30 hours of resident upper-level work.
- * Remain continuously enrolled (complete at least one course in a 12 month period) or meet requirements of a later catalog.
- * 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.

SCE PLAN CORE REQUIREMENTS (31 hours for B.A. degree; 43 hours for B.S. degree)

| | <u>B.A.</u> | <u>B.S.</u> |
|--|-------------|-------------|
| CHEM 3233, 3234 – Organic Chemistry I, II (Must be replaced if hours taken at lower level) | 6 hrs | 6 hrs |
| CHEM 3224 – Organic Chemistry Lab | 2 hrs | 2 hrs |
| CHEM 4635, 4636 – Analytical Chemistry I, II | 6 hrs | 6 hrs |
| CHEM 4622 – Analytical Chemistry Lab | 2 hrs | 2 hrs |
| CHEM 4335 – Inorganic Chemistry | 3 hrs | 3 hrs |
| Advanced Math (B.A. degree: MATH 3038 or 3131; B.S. degree: course approved by faculty adviser.) | 3 hrs | 3 hrs |
| Advanced Chemistry Elective (approved by faculty adviser) | 3 hrs | ----- |
| CHEM 4732 – Chemistry Seminar (replaces Technical Writing) | 3 hrs | 3 hrs |
| For B.A. degree CHEM 3230 – Physical Chemistry Survey OR CHEM 4231 Physical Chemistry I | 3 hrs | ----- |
| For B.S. degree CHEM 4231, 4232, 4222 – Physical Chemistry I, II, and Lab | ----- | 8 hrs |
| For B.S. degree CHEM 4431 – Biochemistry | ----- | 3 hrs |
| For B.S. degree CHEM 4638 – Advanced Organic Chemistry | ----- | 3 hrs |
| For B.S. degree CHEM 4325 – Inorganic Chemistry Laboratory | ----- | 2 hrs |
| For B.S. degree CHEM 4729 – Undergraduate Chem Research | ----- | 2 hrs |
| | <hr/> | <hr/> |
| The balance of required hours may consists of approved electives | 31 hrs | 43 hrs |

ADDITIONAL COURSES NECESSARY TO MEET UPPER-LEVEL REQUIREMENT OR TO MEET MINIMUM REQUIRED HOURS FOR GRADUATION: _____