

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

BIOLOGICAL SCIENCES

(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 for B.A. and B.S. Degree*</u>	
a	ENGL 1301 - Composition I	3	10	a,#	ENGL 2311 – Technical Report Writing **	3
a	ENGL 1302 – Composition II	3	10	#	CHEM 1411 – General Chemistry I	4
b	Humanities	3	40	#	CHEM 1412 – General Chemistry II	4
c	HIST 1301 – American History I	3	60	#	CHEM 2423 – Organic I**	4
c	HIST 1302 – American History II, or HIST 2301,2302 or 2303 – Texas History	3	60	#		15*
	GOVT 2301 – Government I	3	70		<u>Additional Foundation Courses for B.S. Degree*</u>	
	GOVT 2302 – Government II	3	70			
d	MATH 1314 – College Algebra (or higher)	3	20	d,#	MATH 2413 – Calculus I	4
e	Visual & Performing Arts **	3	50	j,#	CHEM 2425 – Organic II**	4
f,#	Biology I	4	30	k,#	PHYS 1401 – College Physics I	4
f,#	Biology II	4	30	k,#	PHYS 1402 – College Physics II	4
g	Social & Behavioral Science **	3	80			16*
h	Speech Communication	3	11			
I	Computer Competency	3	90	I	<u>Prerequisites &/or Remedial Courses</u>	
		44*			MATH 1316 – Trigonometry	3
					MATH 2312 or 2412 – Elementary Functions/Precal	4
				I	<u>Additional Courses for the Associate Degree</u>	

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 **For B.A. degree, MATH 1314 or higher is required. For B.S. degree MATH 2413 and a second course in Mathematics are required;** either Algebra, Trigonometry, Pre-Calculus or Calculus II may satisfy the requirement for a second math course.
- e Suggested courses for Visual & Performing Arts include: any ARTS, DANC, DRAM, MUSI, or MUAP course. Three semester hours credit required.
- f Introductory Biology course appropriate for a Science major. Check with your counselor for further information.
- g 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.
- h Suggested courses for Speech/Communication include: any SPCH course.
- i Suggested courses for Computer Competency include: any COSC or CSCI course. Other courses may meet this requirement. Please check with an adviser on your campus.
- j **For B.S. degree take CHEM 2425; B.A. degree may take an elective.**
- k **For B.S. degree take PHYS courses. For B.A. degree PHYS courses are recommended.**
- 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.
- Core #4** The core component number is used by Texas schools to identify which area of the 42-hour core curriculum a course fulfills.

**SCHOOL OF SCIENCE AND COMPUTER ENGINEERING
BACHELOR OF ARTS/BACHELOR OF SCIENCE IN BIOLOGICAL SCIENCES
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 correspondence, extension or CLEP credit may be applied toward the bachelor’s degree at UHCL.
- * 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.
- * 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, foundation requirements listed on the transfer plan section of this document and indicated by the # sign require grades of “C-“ or better before beginning the upper level program and finalizing a Candidate Plan of Study.

For the B.A. degree, at least 12 upper-level hours in Biology must be completed with grades of “C” or better at UHCL. For the B.S. degree, three specialization areas are available to students. All core and specialization courses must be completed with grades of “C” or better. Additional science electives (9-10 hours) must be selected in consultation with a Biology Program faculty advisor and must be completed with a grade of “C-“ or better. Additional upper-level general electives will also be selected with advisor approval.

SCE PLAN CORE REQUIREMENTS for B.A. degree (18 hours)

BIOL 3431 - Genetics	3 hrs	MATH 3038 - Statistics	3 hrs
Cellular Biology – BIOL 4431 or 3037	3 hrs	Anatomy – BIOL 3733,3133,3231,or 3031	3 hrs
Environment & Population - BIOL 3131,3333,3335 or 4131	3 hrs	Physiology – BIOL 4435,4434,or 3134	3 hrs

SCE PLAN CORE REQUIREMENTS for B.S. degree (17 hours)

BIOL 3431/3411 – Genetics/Lab	4 hrs	MATH 3038 - Statistics	3 hrs
BIOL 4431/4422 – Biochemistry I/Lab	5 hrs	BIOL 4728 – Seminar in Biology	2 hrs
BIOL 4131 – Ecology	3 hrs		

Cell/Molecular Specialization Area (18-19 hrs)

BIOL 4432 – Biochemistry II	3 hrs	BIOL 4437 – Cell Physiology	3 hrs
BIOL 4531 – Molecular Biology	3 hrs	Anatomy – BIOL 3031,3133,3733/3713	3-4 hrs
BIOL 4438 – Developmental Biology	3 hrs	Physiology – BIOL 4435,4434,3134	3 hrs

Physiology/Pre-Health Specialization Area (19 hrs)

BIOL 4432 – Biochemistry II	3 hrs	BIOL 3231 – Microbiology	3 hrs
BIOL 3733 and 3713 – Human Anatomy and Lab	4 hrs	BIOL 4435 – Human Physiology	3 hrs
BIOL 4631 – Immunology	3 hrs		
BIOL 4437- Cell Physiology, OR BIOL 4436 – Pathophysiology, OR BIOL 4531 Molecular Biology, OR Neuroscience	3 hrs		

Ecology/Microbiology Specialization Area (20 hrs)

BIOL 4434 or BIOL 3134 – Physiology	3 hrs	BIOL 3231 & 3221 – Microbiology/Lab	5 hrs
BIOL 3031 or BIOL 3133 – Anatomy	3 hrs	BIOL 4235 – Environmental Toxicology	3 hrs
BIOL 4233 – Field Biology, OR BIOL 3131 – Marine Biology, BIOL 3333 – Environ. Biol. OR Microbial Ecology	3 hrs		
BIOL 4237 – Plant Identification, OR BIOL 3334 – Environ. & Public Health Microbiology	3 hrs		

The balance of required hours consists of approved electives.