

UNIVERSITY-REQUIRED TRANSFER COURSES Biological Sciences

Bachelor of Arts or Bachelor of Science at UHCL

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

FOOT NOTE	CORE CURRICULUM REQUIREMENTS*	HRS	CODE	FOOT NOTE	HRS
a	ENGL 1301 Composition I	3	10	<p><u>FOUNDATIONS FOR B.A. DEGREE*</u></p> <p>d, # CHEM 1411 General Chemistry I</p> <p>d, # CHEM 1412 General Chemistry II</p> <p>j, # CHEM 2423 Organic Chemistry I**</p> <p>Electives</p> <p><u>FOUNDATIONS FOR B.S. DEGREE *</u></p> <p>d, # CHEM 1411 and 1412 General Chemistry I and II</p> <p>c, # MATH 2413 Calculus I (from Core column)</p> <p>k, # PHYS 1401 and 1402 College Physics I and II</p>	
a	ENGL 1302 Composition II OR - #ENGL 2311 Technical Writing**	3	10		4
b	Speech Communication**	3	11		4
c, #	For B.A. MATH 1314 College Algebra	(3)	20		4
	For B.S. Calculus I required (see B.S. foundation)	(3)			16*
d, #	BIOL 1406 General Biology I	4	30		
d, #	BIOL 1407 General Biology II	4	30		
e	Humanities**	3	40		
f	Visual & Performing Arts **	3	50		
g	HIST 1301 American History I**	3	60		
g	HIST 1302 American History II** or HIST 2301, 2302 or 2303 Texas History	3	60		
	GOVT 2301 US and Texas Constitutions	3	70		
	GOVT 2302 US and Texas Institutions	3	70		
h	Social & Behavioral Science **	3	80		
i	Computer Competency**	3	90		
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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. For the B.A. they must be completed with a grade of "C-" or better. For the B.S. they 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 For B.A. degree, MATH 1314 or higher is required. For B.S. degree MATH 2413 is required.
- d General Biology I and II and General Chemistry I and II **must** be completed before the student can begin the bachelor's program at UHCL. Check with your advisor for further information.
- e 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.
- 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 taken in addition to core requirements.
- i 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. MATH 3038 at UHCL will also satisfy this requirement.
- j The **lower-level** class CHEM 2423 *Organic Chemistry*, taken at Community college, is acceptable **only** for the BA degree. For B.S. degree, take **upper-level** Organic Chemistry: CHEM 3233, CHEM 3234 and CHEM 3224 at UHCL.
- k For the B.A. degree PHYS courses are **recommended**. For the B.S. degree College Physics I and II are **required**.

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://prt1.uhcl.edu/portal/page/portal/AR/excess-hours>

School of Science and Computer Engineering Advising Office
281-283-3711, Bayou Building, B 3611

sceadvising@uhcl.edu • www.uhcl.edu/sce/advising



**University
of Houston
Clear Lake**

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

GENERAL DEGREE REQUIREMENTS

- 120 semester hours of applicable college credits 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, 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.
- Undergraduate students who were first-time freshmen between Fall 1999 and Summer 2006 that exceed more than 45 semester credit hours beyond their state-approved degree plans, and undergraduate students who were first-time freshmen starting Fall 2006 onward that exceed more than 30 hours beyond their state-approved degree plans, are subject to a tuition recovery fee and mandatory academic advising. For more information, contact the office of Academic Records.

BASIC REQUIREMENTS

For the B.A. degree, graduation requires grades of "C" or better on all UHCL Biology core courses.

For the B.S. degree all foundation, core and sub-plan courses must be completed with grades of "C" or better.

Upper-level general electives are selected with advisor approval. For the B.S. degree, five sub-plans are available to students.

BACHELOR OF ARTS IN BIOLOGY (B.A.) DEGREE - UHCL DEGREE REQUIREMENTS (60 HOURS)

MATH 3038 Statistics	3hrs	Anatomy/Lab - BIOL 3733/3713 or 3133/3113 or 3031/3011 or 4133/4113	4hrs
BIOL 3431/3411 Genetics and Laboratory	4hrs	Physiology - BIOL 4435 or 4434 or 3134	3hrs
BIOL 3037 Cellular Biology or BIOL 4431 Biochemistry I	3hrs	WRIT 3135 Technical Writing or other WRIT course if needed.	3hrs
Population: BIOL 4131 Ecology or BIOL 3335 Epidemiology	3hrs	BIOL 3231/3211 Microbiology with Lab	4 hrs
Environment: BIOL 3333 Environmental Biology or BIOL 3131 Marine Biology or BIOL 4035 Ecology of the Amazon			3hrs
DESIGNATED ELECTIVES: BIOL, GEOL, CHEM, ENSC, General Biology Sub-plan or other approved electives. Require faculty advisor approval.			30hrs

General Biology Sub-plan: BIOL 3036 Development of the Sciences, BIOL 4334 Environmental Microbiology, BIOL 4237 Plant Identification, BIOL 4135 Biology Practicum, BIOL 4233 Field Biology, BIOL 4931 Topics, BIOL 4819, 4829 or 4839 Independent Study, BIOL xx3x Approved Elective, CHEM xx3x Chemistry Approved Elective, ENSC xx3x Approved Elective, GEOL xx3x Approved Elective, Other Approved Elective.

BACHELOR OF SCIENCE IN BIOLOGY (B.S.) DEGREE – UHCL DEGREE REQUIREMENTS (60 HOURS)

UHCL PLAN CORE REQUIREMENTS FOR B.S. DEGREE

CHEM 3233/3234/3224 Organic Chemistry I & II with Lab	8 hrs	BIOL 3431/3411 Genetics/Lab	4 hrs
BIOL 4431/4422 Biochemistry I/Lab	5 hrs	BIOL 4131 Ecology	3 hrs
MATH 3038 Statistics	3 hrs	BIOL 4728 Seminar in Biology	2 hrs
Sub-Plan Requirements & Designated Electives	40 hrs	WRIT 3135 Technical Writing -or- faculty approved elective	3 hrs
		-or- other WRIT (depends on completion of required composition)	

ALL STUDENTS MUST CHOOSE ONE SUB-PLAN:

- **CELLULAR / MOLECULAR/BIOTECHNOLOGY SUB-PLAN:** BIOL 4432 Biochemistry II, BIOL 4437 Cellular Physiology, BIOL 4438 Developmental Biology, BIOL 4531 Molecular Biology, Plus one of the following: BIOL 3134, 4434 or 4435 Physiology, Plus one of the following: BIOL 3031/3011, 3133/3113, 3733/3713 Anatomy
Choose from Designated Electives: BIOL 4332 Histology, BIOL 4436 Pathophysiology, BIOL 4522 Molecular Biology Lab, BIOL 4523 Lab for Biotechnology, BIOL 4524 Eukaryotic Gene Expression Lab, BIOL 4535 Tissue Culture, BIOL 4631 Immunology, BIOL 4731 Cancer Biology, Approved BIOL elective, BIOL 4931 Topics course, BIOL 4819, 4829, or 4839 Independent Study.
- **PHYSIOLOGY / PRE-HEALTH SUB-PLAN:** BIOL 4432 Biochemistry II, BIOL 3231/3211 Microbiology & Lab, BIOL 4631 Immunology, BIOL 4435 & 4421 Human Physiology & Lab, BIOL 3733 & 3713 Human Anatomy & Lab, Plus 1 of the following: BIOL 4437 Cellular Physiology, BIOL 4531 Molecular Biology, or BIOL 4436 Pathophysiology
Choose from Designated Electives: BIOL 3335 Epidemiology & Public Health Microbiology, BIOL 4332 Histology, BIOL 4235 Environmental Toxicology, BIOL 4523 Lab for Biotechnology, BIOL 4438 Developmental Biology, BIOL 4731 Cancer Biology, CHEM 4639 Food Science & Nutrition, HLTH xx3x Approved Elective, BIOL xx3x Approved Elective, BIOL xx2x Approved BIOL Lab, BIOL 4931 Topics course, BIOL 4819, 4829, or 4839 Independent Study.
- **ECOLOGY / MICROBIOLOGY & MARINE BIOLOGYSUB-PLAN:** BIOL 4434 or 3134 Physiology, BIOL 3031/3011 or 3133/3113 Anatomy with Lab, BIOL 3231/3221 Microbiology & Lab, BIOL 3333 Environmental Biology, BIOL 4233 Field Biology, Plus two of the following: BIOL 3131 Marine Biology, BIOL 4334 Environmental Microbiology, or BIOL 4x3x Plant Development, BIOL 4235 & BIOL 4x1x Environmental Toxicology & Lab or BIOL 4133 & BIOL 4113 Biology of Fishes & Lab
Choose from Designated Electives: BIOL 4237 Plant Identification, BIOL 3335 Epidemiology and Public Health Microbiology, BIOL 4035, Ecology of the Amazon, BIOL 4437 Cellular Physiology, BIOL 4631 Immunology, BIOL 4523 Lab for Biotechnology, BIOL xx3x Approved Elective, BIOL xx2x Approved BIOL Lab, BIOL 4931 Topics course, BIOL 4819, 4829, or 4839 Independent Study.
- **PLANT BIOLOGY SUB-PLAN:** BIOL 3133 & 3113 Plant Anatomy & Lab, BIOL 3134 Plant Physiology, BIOL 4432 Biochemistry II, BIOL 4437 Cellular Physiology, BIOL 4x3x Plant Development, Plus one of the following: BIOL 4531 Molecular Biology, BIOL 4237 Plant Identification, BIOL 3333 Environmental Biology
Choose from Designated Electives: BIOL 4524 Eukaryotic Gene Expression Lab, BIOL 4522 Molecular Biology Lab, BIOL 4x3x Plant Tissue Culture, BIOL 4035 Ecology of the Amazon, BIOL 4135 Biology Practicum, BIOL xx3x Approved Elective, BIOL 4931 Topics course, Independent Study.
- **FORENSIC BIOLOGY SUB-PLAN:** BIOL 3231 & 3211 Microbiology & Lab, BIOL 3733/3713 Human Anatomy & Lab, BIOL 4434 Or 4435 Animal Or Human Physiology, BIOL 4432 Biochemistry II, BIOL 4335 Forensic Biology, CHEM 4633 Forensic Chemistry, CHEM 4733 Quantitative Analysis, BIOL 4235 Environmental Toxicology, CRIM 4330 Criminal Investigation, BIOL 4x2x Forensics Seminar (Replaces BIOL 4738 from Core list).
Choose from Designated Electives: BIOL 4437 Cellular Physiology, CHEM 4635 Analytical Chemistry I, CHEM 4637 Instrumental Analysis, CRIM 4334 Criminal Law, CRIM 4330 Criminal Investigation, LEGL 4635 Mock Trial, BIOL 4135 Biology Practicum, BIOL xx3x Approved Elective, BIOL 4931 Topics course, Independent Study.

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