Transfer Guide

WCJC & UHD

Bachelor of Science in Biology
with Concentration in Environmental Biosciences
2012-2013 Catalog

Students pursuing a Bachelor of Science degree in Biology with Concentration in Environmental Biosciences at the University of Houston-Downtown are strongly encouraged to complete the Associate Degree before transferring to UHD. The degree provides a solid foundation through the traditional liberal arts education, and Associate Degree core curriculum courses taken at Wharton County Junior college will transfer to UHD. Studies indicate students who complete an Associate degree are more likely to successfully complete a Bachelors degree.

### General Education Core

#### WCJC

- **Written Communication (6 hours) 010**
  - ENGL 1301 Composition I
  - ENGL 1302 Composition II

- **Oral Communication (3 hours) 011**
  - SPCH 1315 Public Speaking

- **Mathematics (4 hours) 020**
  - See Basic Mathematics and Sciences List

- **Natural Science (8 hours) 030**
  - *Note: Eight hours of lab sciences for science majors in the same natural science* approved by the CMS department advisor.
  - BIOL, CHEM, GEOL, or PHYS

- **Humanities (3 hours) 040**
  - For a complete list of all fully transferable WCJC Humanities core course options check the 2012-2013 Catalog.
  - **NOTE:** Students should consider taking a sophomore literature class to meet future prerequisites.

- **Visual and Performing Arts (3 hours) 050**
  - Select 3 hours from one of the following:
    - ARTS, DANCE, DRAM or MUSI

- **American History (6 hours) 060**
  - HIST 1301 U.S. History I
  - HIST 1302 U.S. History II

- **Government (6 hours) 070**
  - GOVT 2301 American, National and State Government: Constitutions, Federalism and Participation
  - GOVT 2302 American, National and State Government: Institutions, Rights and Public Policies

- **Social/Behavioral Science (3 hours) 080**
  - Select one of the following:
    - ANTH 2351 Cultural Anthropology
    - GEOG 1303 World Geography
    - PSYC 2301 Introduction to General Psychology
    - SOCI 1301 Introduction to Sociology
  - **Any course taken to complete this core component not**

#### UHD

- **Communications (9 hours) 010**
  - ENG 1301 Composition I
  - ENG 1302 Composition II

- **Oral Communication (3 hours) 011**
  - COMM 1306 Beginning Public Speaking

- **Mathematics (4 hours) 020**
  - See Basic Mathematics and Sciences List

- **Natural Science (8 hours) 030**
  - *Note: Eight hours of lab sciences for science majors in the same natural science* approved by the CMS department advisor.
  - BIOL, CHEM, GEOL, or PHYS

- **Humanities (3 hours) 040**
  - Any literature class

- **Visual & Performing Arts (3 hours) 050**
  - Select 3 hours from one of the following:
    - ART, DRA or MUS

- **US History (6 hours) 060**
  - HIST 1305 United States History to 1877
  - HIST 1306 United States History after 1877

- **Political Science (6 hours) 070**
  - POLS 2303 United States Government I
  - POLS 2304 United States Government II

- **Social/Behavioral Science (3 hours) 080**
  - Select one of the following:
    - ANTH 2302 Cultural Anthropology
    - GEOG 1302 World Geography
    - PSY 1303 Introduction to Psychology
    - SOC 1303 Introduction to Sociology
listed above will satisfy the requirement at UHD. For a complete list of all the Social and Behavioral Science core courses options check the WCJC 2011-2012 catalog.

Kinesiology (1 hour) 090
Check the WCJC 2012-2013 catalog for a complete list of all kinesiology course options.

Computer Literacy (4 hours) 090
See List of Computer Science Courses

A transfer student who has successfully completed all of the common core requirements at WCJC or another institution of higher education will satisfy all the UHD common core requirements. If not all of the common core requirements have been completed prior to the transfer, each core course transferred will be credited and will satisfy the corresponding common core requirements at UHD. Remaining UHD common core requirements must be satisfied. All prerequisites for UHD courses must be met.

Courses not listed on this sheet that satisfy core curriculum components (see italicized number) satisfy the equivalent component at the transferring institution or as free electives.

Technical Writing (3 hours)
Select one of the following:
ENG 3302 Business and Technical Report Writing
ENG 3325 Medical Writing
ENG 3326 Proposal Writing
ENG 3329 Environmental Writing
ENG 4306 Science Writing

Basic Science and Math (43 hour)
MATH 2413 Calculus I (fulfills core)

COSC 1436 Programming Fundamentals I (fulfills Core)

BIOL 1406 General Biology I (fulfills Core)
BIOL 1407 General Biology II (fulfills Core)
CHEM 1411 General Chemistry I
CHEM 1412 General Chemistry II

Note: If a grade of "B" or better is earned in BIOL 2420 at WCJC, the Department at UHD will award credit for MBIO 2305/2105 General Microbiology w/Lab.

PHYS 1401 College Physics I
PHYS 1402 College Physics II

Biology Core Courses (19 - 21 hours)
BIOL 3303/3103 General Genetics w/Lab
CHEM 3301/3201 Organic Chemistry w/ Lab
CHEM 4340/4140* General Biochemistry I (*lab optional)
BIOL 3306 Biological Evolution or
BIOL/GEOL 4301 Evolution of the Earth & its Inhabitants

One of the following 2 courses
BIOL 4210 Biology Seminar
MBIO 4210 Microbiology Seminar

One of the following 3 courses
BIOL 3300 Undergraduate Research
BIOL 4260 Environmental Laboratory & field Studies
^BIOL 4399 Senior Honors Thesis
Enrollment in Honors Program Required

Courses for Concentration (20 hours)
**BIOL 3302/3102 General Ecology
**BIOL 4360 Environmental Biology

One of the following 2 courses
**BIOL 3330/3130 Plant Biology
**BIOL 3310/3110 Plant Identification

** Required Course for Concentration

MBIO 3340 Environmental Microbiology
CHEM 3320 Environmental Chemistry
GEOL 3303 Environmental Geology
BIOL 3340/3140 Biology of Fungi
BIOL 3304/3104 Vertebrate Embryology
BIOL 3390/3190 Coastal Studies
BIOL 4390/4190 Natural History of Vertebrates
BIOL/GEOL 3390 Rocks to Wine
BIOL 2390 - 4390 Special Topics in Biology

Approved Upper Level Electives (3 - 5 hours)
Electives must be approved by your faculty advisor and/or program coordinator.

120 Hours Required

Courses taken at Wharton County Junior College do not transfer as Upper Level credits.

ADDITIONAL REQUIREMENTS - May be satisfied by requirements above
• ONE ETHICAL AND MORAL ISSUES COURSE - See NS website for eligible courses
• TWO WRITING SKILLS COURSES - Satisfied by degree requirements
• ONE WORLD COMMUNITY COURSE - See NS website for eligible courses
  ENG 2301, 2302, 2313, or 2314 will satisfy both the Sophomore Lit and World community requirements.
• ONE NONVERBAL ANALYATICAL SKILLS COURSE -Satisfied by degree requirements.

Check with your advisor about how requirements from the Associate of Arts, the Associate of Science, and whether requirements from the Associate of Applied Science may be applied.

For a complete list of all Academic Requirements and criteria for the College of Sciences and Technology, Natural Sciences Department, located at 813-North, call 713-221-8015, or visit the UHD web site at www.uhd.edu/sciences/ns

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