

Biotechnology Certificate

A student may work toward a certificate in Biotechnology, which requires the completion of at least seven biology laboratory courses at UHCL. Training in these laboratories will prepare students for careers in academic, industrial, biomedical, clinical, state/federal or environmental areas.

The certificate option targets students who are working toward or have already completed a B.S. degree and wish to add course work that will be focused on the Biotechnology field. Current UHCL students (degree-seeking B.S. or M.S. students or post-baccalaureate non-degree seeking students majoring in Biology, Environmental Science or Chemistry) who wish to participate in the certificate option must be in good academic standing, maintain a minimum 2.500 GPA in the laboratory courses and be advised by a faculty member in the Biology program. Students must have completed introductory biology (six hours), general chemistry (eight hours), organic chemistry (eight hours) and calculus as general pre-requisites. In addition, students must have completed or be currently enrolled in the following courses: Biochemistry, Cell Biology or Cell Physiology, Genetics, Animal/Human/Plant Physiology and Microbiology.

Certificate Requirements

A minimum of seven laboratory courses must be completed for the certificate in Biotechnology.

Required Courses

Complete the 3 courses listed.

BIOL 4252	Molecular Biology Laboratory Credit Hours: 2
BIOL 4253	Laboratory for Biotechnology Credit Hours: 2
BIOL 4254	Laboratory for Eukaryotic Gene Expression Credit Hours: 2
Additional Courses	
Select at least 4 of the courses listed. Up to 6 hours total may be taken in Independent Study.	
BIOL 4189	Independent Study in Biology Credit Hours: 1
BIOL 4289	Independent Study in Biology Credit Hours: 2
BIOL 4291	Laboratory Topics in Biology Credit Hours: 2
BIOL 4355	Tissue Culture Credit Hours: 3
BIOL 4389	Independent Study in Biology Credit Hours: 3
BIOL 4391	Selected Topics in the Biological Sciences Credit Hours: 3