

## Biotechnology Certificate 2017-2018

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

### Prerequisites

Students who are currently majoring in biology, environmental science or chemistry, or who have already completed a bachelor's degree, must have completed introductory biology (six hours), general chemistry (eight hours), organic chemistry (eight hours) and calculus as general prerequisites. 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. Current UHCL students (degree-seeking B.S. or M.S. students or post-baccalaureate non-degree seeking students) 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.

### Core Requirements

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

#### **The following three core courses are required:**

BIOL 4252 Molecular Biology Laboratory  
BIOL 4253 Laboratory for Biotechnology  
BIOL 4254 Laboratory for Eukaryotic Gene Expression

#### **At least four of the following courses are required:**

BIOL 4189 Independent Study in Biology  
BIOL 4289 Independent Study in Biology  
BIOL 4291 Laboratory Topics in Biology  
BIOL 4355 Tissue Culture  
BIOL 4389 Independent Study in Biology  
BIOL 4391 Selected Topics in the Biological Sciences  
Independent Study: (up to 6 hours total)