2018 - 2019 Certificate Map
Biomedical Research

School/College: New College of Interdisciplinary Arts and Sciences
Location: West campus

Program Requirements

The certificate in biomedical research requires a minimum of 15 credit hours (at least 12 must be upper-division). 12 credit hours must be taken at ASU. The certificate requires three core credit hours, 8 credit hours of electives, and four hours of LSC 388 Research Fundamentals or LSC 499 Individualized Instruction. Students who select LSC 499 will register for two consecutive semesters for two credit hours each. Nine credit hours must be counted toward the certificate alone and may not be shared with a student's major requirements. Only courses in which a student received a grade of "C" (2.00 on a 4.00 scale) or higher may be used to meet certificate requirements.

Required Course -- 3 credit hours

STP 280: Probability and Statistics for Researchers (CS) (3)

Elective Courses -- 8 credit hours

BCH 371: Modern Concepts in Biochemistry AND BCH 372: Modern Concepts in Biochemistry Laboratory (4)
BIO 353: Cell Biology AND BIO 354: Cell Biology Laboratory (4)
BIO 360: Animal Physiology AND LSC 359: Animal Physiology Laboratory (4)
BIO 443: Applied Molecular Genetics and Genomics AND LSC 447: Molecular Genetics Laboratory (4)
MIC 443: The Microbial Universe AND MIC 444: The Microbial Universe Laboratory (4)

Other Certificate Requirements (choose one option below) -- 4 credit hours

Option A -- 4 credit hours

LSC 388: Research Fundamentals for the Natural Sciences (L) AND LSC 499: Individualized Instruction (4)

Notes: Students complete LSC 388 (3 credit hours) and LSC 499 (1 credit hour)

Option B -- 4 credit hours

LSC 499: Individualized Instruction (4)

Notes: Students who select LSC 499 will register for two consecutive semesters for two credit hours each.

Depending on a student's undergraduate program of study, prerequisite courses may be needed in order to complete the requirements of this certificate.