

UNIVERSITY STUDIES - BS, BIOINFORMATICS CONCENTRATION

The Bachelor of Science in University Studies, Bioinformatics area of concentration aims to provide a solid foundation in Biology along with a foundation in Informatics for students who wish to focus on the interface between the two disciplines. Graduates of this program could find employment in biotech/biomedical companies or research institutes, or could pursue advanced degrees in this area.

Program Requirements

Code	Title	Semester Credit Hours
BIOL 213	Molecular Cell Biology	3
BIOL 350	Computational Genomics	3
BIOL 430	Biological Imaging	4
BIOL 451	Bioinformatics	3
BIOL 491	Research	2
CSCE 110	Programming I	4
	or CSCE 111 or Introduction to Computer Science Concepts and Programming	
STAT 312	Statistics for Biology	3
University and College Requirements		
BIOL 111	Introductory Biology I	4
BIOL 112	Introductory Biology II	4
CHEM 119	Fundamentals of Chemistry I	4
CHEM 120	Fundamentals of Chemistry II	4
POLS 206	American National Government	3
POLS 207	State and Local Government	3
STAT 201	Elementary Statistical Inference	3
	Select one of the following:	4
	MATH 147 Calculus I for Biological Sciences	
	MATH 151 Engineering Mathematics I	
	MATH 171 Calculus I	
	American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history)	6
	Communication (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication)	6
	Creative arts (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts)	3
	Language, philosophy and culture (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture) ¹	3
	Social and behavioral sciences (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#social-behavioral-sciences)	3

Minor 1	15-18
Minor 2	15-18
General electives ²	12-18
Total Semester Credit Hours	120

¹ Select 3 hours from any 200-499 level course.

² Three hours of courses must be in the area of international and cultural diversity (<http://catalog.tamu.edu/undergraduate/general-information/degree-information/international-cultural-diversity-requirements/>) and three hours of courses must be in the area of cultural discourse (<http://catalog.tamu.edu/undergraduate/general-information/degree-information/cultural-discourse-requirements/>). These may be in addition to University Core Curriculum courses, or if a course in this category satisfies an area of the Core, it can be used to meet both requirements. Remaining electives may be selected from any 100-499 course not used elsewhere.