COURSE SEQUENCE GUIDE | FULL-TIME ENROLLMENT
Biotechnology - Bioinformatics
Associate in Science | Code: 22028 | 61 credits
Effective Term: Fall 2024 (2247)

Semester 1

Course ID	Course Title	Credits	Pre/Co-requisites
ENC 1101	English Composition I	3	Prerequisite: Student must meet the Developmental Education reading and writing requirements in State Rule 6A-10.0315 (by course, placement score, or eligible exemption).
MAT 1033	Intermediate Algebra	3	Prerequisites: MAT 0022C, or MAT 0028, or MAT 0057 or by placement score, or eligible exemption.
Social Science	AMH 2010, AMH 2020, POS 2041	3	
CGS 1060C	Introduction to Computer Technology & Applications	4	
	Semester Credits	**13**	

Semester 2

Course ID	Course Title	Credits	Pre/Co-requisites
HUM 1020 **--OR--** PHI 2010	Intro to Humanities **--OR--** Intro to Philosophy	3	
MAC 1105	College Algebra	3	Prerequisite: MAT 1033♦ ♦Students must seek advisement for proper mathematics course from discipline chairperson.
CGS 1145	Introduction to Bioinformatics	4	
	Semester Credits	**10**	

Semester 3

Course ID		Credits	Pre/Co-requisites
CHM 1045	General Chemistry and Qualitative Analysis	3	Prerequisite: CHM 1025 or a passing score on the CART exam, MAC 1105 Corequisite: CHM 1045L
CHM 1045L	General Chemistry and Qualitative Analysis Lab	2	Prerequisite: CHM 1025 or a passing score on the CART exam, MAC 1105 Corequisite: CHM 1045
BSC 2426	Biotechnology Methods and Applications 1	3	Corequisite: BSC 2426L
BSC 2426L	Biotechnology Methods and Applications 1 Lab	2	Corequisite: BSC 2426
	Semester Credits	**10**	

Semester 4

Course ID	Course Title	Credits	Pre/Co-requisites
BSC 2427	Biotechnology Methods and Applications 2	3	Prerequisite: BSC 2426, BSC 2426L Corequisite: BSC 2427L
BSC 2427L	Biotechnology Methods and Applications 2 Lab	2	Prerequisite: BSC 2426, BSC 2426L Corequisite: BSC 2427
BSC 2010	Principles of Biology 1	3	Prerequisite: CHM 1045 Corequisite: BSC 2010L
BSC 2010L	Principles of Biology 1 Lab	2	Corequisite: BSC 2010
	Semester Credits	**10**	

Semester 5

Course ID	Course Title	Credits	Pre/Co-requisites
STA 2023	Statistical Methods	3	Prerequisite: MAT 1033 or MGF 1131
CGS 1021	Scientific Computing	4	Corequisite: STA 2023
CIS 1321	Intro to Systems Analysis and Design	4	Prerequisite: CGS 1060C
	Semester Credits	**11**	

Semester 6

Course ID	Course Title	Credits	Pre/Co-requisites
BSC 2943L	Bioscience Internship	3	
COP 1334 **--OR--** COP 2700	Introduction to C++ Programming **--OR--** Database Application Programming	4	Prerequisite for COP 2700: Completion of all basic skills or acceptable scores on the Placement Test, CGS 1060C, and proficiency in any programming language.
	Semester Credits	**7**	
	Program Total	**61**	

Academic Pathway at MDC: The AS in Biotechnology-Bioinformatics is a pathway to the Biological Sciences - Biotechnology Concentration. To learn more about the courses listed see College Catalog.