

BIOTECHNOLOGY (A20100)

ASSOCIATE IN APPLIED SCIENCE

DAP	Developmental English Courses	Developmental Math Courses
DRE	DRE 096	DMA 010
	DRE 097	DMA 020
ENG	002	DMA 030
	011	DMA 040
MAT	003	DMA 050
	052	or DMS 003

FIRST FALL SEMESTER				
Course Prefix & Number	Course Title	Semester & Year	Grade	Credit Hours
BIO 111	General Biology I (F, Sp, Su)			4
BTC 181	Basic Lab Techniques (F, Sp)			4
CHM 131 and CHM 131A or CHM 151	Introduction to Chemistry and (F) Introduction to Chemistry Lab (F) General Chemistry I (F, Sp)			3 1 4
ENG 111	Writing and Inquiry			3
	TOTAL			15
FIRST SPRING SEMESTER				
Course Prefix & Number	Course Title	Semester & Year	Grade	Credit Hours
BIO 112	General Biology II (F, Sp)			4
BIO 275 or BTC 275	Microbiology (F, Sp) or BTC 275 (Sp)			4
BTC 281	Bioprocess Techniques (F, Sp)			4
CHM 132 or CHM 152	Organic and Biochemistry (Sp) or General Chemistry II (F, Sp)			4
	TOTAL			16
SUMMER – 3rd Semester				
CIS 110	Introduction to Computers			3
MAT 152	Statistical Methods			4

	TOTAL			7
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SECOND FALL SEMESTER				
Course Prefix & Number	Course Title	Semester & Year	Grade	Credit Hours
BIO 250 or BTC 250	Genetics (F) or Principles of Genetics (Sp)			3-4
BTC 285	Cell Culture (F)			3
BIO 140/140A or BIO 168 or BTC 150 or CHM 152 or MAT 171 or higher CIS / CSC	Environmental Biology/Lab (3+1) Anatomy & Physiology I (4) Bioethics (3) – (Su) General Chemistry II (4) Precalculus Algebra (4) (As per bioinformatics certificate) (3)			3-4
ENG 114 or ENG 112 or COM 110 or COM 231	Prof Research & Reporting Writing and Research in the Disciplines Introduction to Communications Public Speaking			3
	TOTAL			12-14
SECOND SPRING SEMESTER				
Course Prefix & Number	Course Title	Semester & Year	Grade	Credit Hours
BTC 286	Immunological Techniques (Sp)			4
BTC 287	Advanced Molecular Techniques (Sp)			4
ELECTIVE	Humanities/Fine Arts Elective			3
ELECTIVE	Social/Behavioral Sciences Elective			3
	TOTAL			14
SUMMER – 6th Semester				
BTC 288 or WBL 112	Biotechnology Laboratory Experience (F, Sp, Su) Work Based Learning I			2
	GRAND TOTAL			66-68