

**ACADEMIC ROADMAP TEMPLATE:
Biology BA – Biotech Concentration**

Freshman Year

FIRST SEMESTER			SECOND SEMESTER		
Course Title	Catalog Number	Prerequisite(s)	Course Title	Catalog Number	Prerequisite(s)
Principles of Biology	BIO 111	None	Introductory Biology Series	BIO 212 or 213	BIO 111
Fundamentals of Chemistry I	CHE 111	None	Fundamentals of Chemistry II	CHE 112	CHE 111
CWP 101			CWP 102		

Sophomore Year

THIRD SEMESTER			FOURTH SEMESTER		
Course Title	Catalog Number	Prerequisite(s)	Course Title	Catalog Number	Prerequisite(s)
Introductory Biology Series	BIO 212 or 213	BIO 111	Introduction to Cell Biology	BIO 214	CHE 111/112
Organic Chemistry	CHE 201	CHE 112			
Organic Chemistry Laboratory I	CHE 203	CHE 112			

Junior Year

FIFTH SEMESTER			SIXTH SEMESTER		
Course Title	Catalog Number	Prerequisite(s)	Course Title	Catalog Number	Prerequisite(s)
Advanced Cell Biology (Offered once a year)	BIO 314	CHE 201; BIO 214 or 211	General Microbiology (Offered every Spring)	BIO 316	CHE 111/112, BIO 214 or 211
Genetics (Offered in rotation – 3 of every 4 semesters)	BIO 303	CHE 111/112, BIO 214 or 211			

Senior Year

SEVENTH SEMESTER			EIGHTH SEMESTER		
Course Title	Catalog Number	Prerequisite(s)	Course Title	Catalog Number	Prerequisite(s)
Biotech Elective ¹			Recombinant DNA Technology ³ (Offered in rotation every 4 th semester)	BIO 450	CHE 201; BIO 303 or 350
Biology Elective ²					

¹Please refer to catalogue for list of Biotech Electives

²Please refer to catalogue for list of eligible upper division Biology Electives

³ BIO 450 is offered on a four semester cycle. Therefore, students must take BIO 450 the first semester it is offered after they have completed BIO303. Failure to take BIO405 when offered will likely mean the program cannot be completed in 8 consecutive semesters.