

Study Plan

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College, or Program)
Level 1	CSC1101	Introduction to Computing	Required	-	3	Institution
	EDUF1102	Thinking Critical Skills & Applications	Required	-	3	Institution
	ELS1101	English 1	Required	-	3	Institution
	MATH1101	Introduction to Mathematics	Required	-	3	Institution
	PHYS1101	of Fundamentals Physics	Required	-	3	College
	CHEM1101	of Fundamentals Chemistry	Required	-	3	College
Level 2	ARAB1101	Language Arabic Skills	Required	-	2	Institution
	BIO1101	of Fundamentals Biology	Required	-	3	College
	ELS1102	English 2	Required	ELS1101	3	Institution
	MATH1102	Differential calculus	Required	MATH1101	3	Institution
	CID1101	skills Communication	Required	-	2	Institution
	ISLS1101	Islamic Culture Between Authenticity & contemporary	Required	-	2	Institution
	GEE_S	Elective Natural and Social Sciences Course	Elective	-	3	Institution
Level 3	ISLS1201	Ethics and civilized. values in Islam	Required	ISLS1101	2	Institution
	GEE_T	Technology Elective Course	Elective	-	3	Institution
	BIO1201	of Principles Environmental Sustainability	Required	-	2	College
	BIO1208	Biodiversity	Required	-	2	College
	CHEM1202	Organic Chemistry 1	Required	CHEM1101	3	Program
	BIOC1201	General Biochemistry 1	Required	BIO1101	3	Program
	BIOC1202	Biochemistry Cellular	Required	BIO1101	3	Program
Level 4	GEE_L	Languages Elective course	Elective	-	3	Institution
	PHY1206	Natural Resources	Required		2	College
	BIOC1203	General Biochemistry 2	Required	BIOC1201	3	Program
	BIOC1204	Enzymology	Required	BIOC1201	3	Program
	BIOC1205	Plant Biochemistry	Required	BIOC1202 BIO1208	2	Program
	BIOC1206	Physical Biochemistry	Required	BIOC1201	3	Program
	BIOC1207	Vitamins and Minerals	Required	CHEM1202	3	Program
	GEE_C	Cultures Course	Elective	-	2	Institution
Level 5		Elective Cultures Course				
	BIOC1301	Metabolism 1	Required	BIOC1204	3	Program
	BIOC1302	Analytical Biochemistry	Required	BIOC1206 BIO1201	3	Program
	BIOC1303	Biochemistry of Blood	Required	BIOC1203	3	Program
	BIOC1304	Molecular Biochemistry	Required	BIOC1202	4	Program
	BIOC1305	of Biochemistry Nutrition	Required	BIOC1207 PHYS1206	3	Program
Level 6	GEE_P	Elective Professional and Personal Development	Elective	-	2	Institution
	BIOC1306	Metabolism 2	Required	BIOC1301	3	Program
	BIOC1307	Hormones	Required	BIOC1303	3	Program
	BIOC1308	Immunology	Required	BIOC1303	3	Program
	BIOC1309	Microbial Biochemistry	Required	BIOC1304	2	Program
	BIOC1310	Engineering Genetic	Required	BIOC1304	3	Program
	BIOCXXX1	1 course Elective	Elective		2	Program
Level 7	BIOC1401	Biochemistry Tumor	Required	BIOC1304	2	Program
	BIOC1402	Biochemistry Medical	Required	BIOC1303	3	Program
	BIOC1403	Bioinformatics	Required	BIOC1310	3	Program
	BIOC1404	Biotechnology	Required	BIOC1310	3	Program

Level 8	BIOC1498	Project	Required	EDUF1251	3	Program
	BIOCXXX2	Elective course	Elective	-	2	Program
	BIOCXXX3	Elective course 3	Elective	-	2	Program
	BIOC1405	Industrial Biochemistry	Required	BIOC1404	3	Program
	BIOC1406	Medical Genetics & Epigenetics	Required	BIOC1402	3	Program
	BIOC1495	Training	Required	90 Credit Hours	3	Program