

## Study plan

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
Level 1	ENGS 100	English	Required	None	6	Institution
	CT 101	IT Skills	Required	None	3	Institution
	EPH101	Fitness and Health Education	Required	None	1	Institution
	CI 101	University Skills	Required	None	3	Institution
	STAT 109	Biostatistics	Required	None	3	Institution
					<b>Total</b>	<b>16</b>
Level 2	CHEM 109	Introduction to Organic Chemistry	Required	None	3	Institution
	PHYS 109	Physics	Required	None	4	Institution
	ZOOL 109	General Zoology	Required	None	3	Institution
	ENGL 1110	English	Required	ENGL 100	6	Institution
					<b>Total</b>	<b>16</b>
Level 3	ARAB 100	Expository Writing	Required	None	2	Art College
	CHS 243	Basics of Emergency Care	Required	None	2	College

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	CLS 224	Basic Anatomy and Physiology	Required	ZOOL 109	3	Department
	CLS 251	Introduction to CLS & Biosafety	Required	None	2	Department
	CLS 272	Descriptive Histology	Required	None	2	Department
	CLS 281	Basic Biochemistry & Biomolecules	Required	None	3	Department
				<b>Total</b>	<b>14</b>	
Level 4	IC 106	Medical Jurisprudence	Required	None	2	College
	CLS 261	Basic Microbiology	Required	None	3	Department
	CLS 265	Basic Immunology	Required	None	3	Department
	CLS 275	General Pathology	Required	none	2	Department
	CLS 282	Clinical Metabolism	Required	CLS 281	3	Department
	CLS 291	Clinical Haematology-1	Required	None	3	Department
				<b>Total</b>	<b>16</b>	
Level 5	CLS 351	Epidemiology & Emerging Diseases	Required	CLS 261	2	Department

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	CLS 361	Clinical Mycology	Required	CLS 261	3	Department
	CLS 371	Pathophysiology & Molecular Pathology	Required	CLS 272, CLS 275	3	Department
	CLS 377	Histology Techniques & Electron. Microscopy	Required	CLS 275	2	Department
	CLS 381	Clinical Analytical Techniques	Required	None	3	Department
	CLS 391	Clinical Haematology-II	Required	CLS 291	3	Department
				<b>Total</b>	<b>16</b>	
<b>Level 6</b>	CLS 353	Research Project-I	Required	CLS 281, CLS 291 CLS 361, CLS 371	1	Department
	CLS 354	Urinalysis & Body Fluids	Required	CLS 275, CLS 371	2	Department
	CLS 362	Clinical Parasitology	Required	CLS 261	3	Department
	CLS 363	Clinical Bacteriology II	Required	CLS 261	3	Department
	CLS 372	Cytopathology	Required	CLS 261, CLS 272, CLS 275	2	Department
	CLS 382	Clinical Biochemistry	Required	CLS 281, CLS 282	3	Department
	CLS 392	Haemostasis & Thrombosis	Required	CLS 291, CLS 391	2	Department
				<b>Total</b>	<b>16</b>	

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Level 7	CLS 454	Lab Management & Quality Control	Required	CLS 251	2	Department
	CLS 456	Research Project-II	Required	CLS 353	1	Department
	CLS 461	Clinical Virology	Required	CLS 261	3	Department
	CLS 463	Clinical Bacteriology-II	Required	CLS 363	3	Department
	CLS 465	Clinical Immunology and Serology	Required	CLS 261, CLS 265	2	Department
	CLS 466	Infection Control & Prevention	Required	CLS 261, CLS 361, CLS 362, CLS 363	2	Department
	CLS 469	Molecular Diagnostics Techniques	Required	CLS 281	2	Department
	CLS 491	Immunohaematology & Transfusion Medicine	Required	CLS 265	3	Department
				<b>Total</b>	<b>18</b>	
Level 8	CLS 455	Assisted Reproductive Technologies & Embryology	Required	CLS 224	2	Department
	CLS 457	Medical Genetics & Cytogenetic	Required	CLS 281	3	Department

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	CLS 467	Microbiology Clinical Practice	Required	CLS 361, CLS 362 CLS 363, CLS 461 CLS 463	3	Department
	CLS 468	Immunology Clinical Practice	Required	CLS 265, CLS 465	2	Department
	CLS 478	Histopathology & Cytopathology Clinical Practice	Required	CLS 275, CLS 371	2	Department
	CLS 488	Biochemistry Clinical Practice	Required	CLS 281, CLS 282 CLS 381, CLS 382	2	Department
	CLS 489	Clinical Endocrinology & Toxicology	Required	CLS 281, CLS 381, CLS 382	2	Department
	CLS 498	Haematology & Immunohaematology Clinical Practice	Required	CLS 291, CLS391, CLS392, CLS 491	2	Department
				<b>Total</b>	<b>18</b>	