

Degree and Study Plan

College: Medicine and Health Sciences

Cohort: 2010

Degree: Bachelor of Biomedical Sciences (B.Sc. BMS)

<u>Summary of Credits:</u>	
University Requirements (UR)	6
Intensive English	NC ⁺
English Requirements	0
Arabic	3
Contemporary Omani Society	1
Oman and Islamic Civilization or Islamic Culture	2
University Electives (UE)	6
See List A	
College Requirements (CR)	29
See list B	
College Electives (CE)	
See list C	0
Departmental Requirements (DR)	
See list D	0
Departmental Electives (DE)	
See list E	0
Major Requirements (MR)	
See list F	71
Major Electives (AE)	
See list G	0
Special Requirements (SR)	08
See list H	
Specialization Electives (SE)	
See list I	0
Minor Requirements (IR)	
See list J	0
Minor Electives (IE)	
See list K	
TOTAL	120

⁺ Not Credited

For reference contact:	Assistant Dean	Ext: 1170
Chairperson BMS Management Committee		Date:
Dean's Office		Date:
Admission and Registration		Date:

Biomedical Sciences (BMS)

Study Plan: for Cohort 2010 (Scheme I)

	Course Code	Course Title	Cr.	Pre-req./Co-requisite	Cat.
Semester 1 Fall	ARAB1001	Arabic	3		UR
	SOCI3320	Contemporary Omani Society	1		UR
	LANC2033	Academic English for Medicine	3	FPEL0600 or PEL0601 or FPEL0602 or FPEL0603 or FPEL0604	CR
	CHEM2110	Chemistry for Medicine	4	FPMT0105	CR
	MEDI2100	Medical Informatics 1	2	FPMT0101	CR
		University Elective	2		UE
	Total		15		

	HIST1010	Oman and Islamic Civilization	2		UR
Semester 2 Spring	MEDI 2106	Introduction to Human Anatomy	4	LANC2033	CR
	MEDI2107	Introduction to Human Physiology	4	LANC2033	CR
	MEDI2108	Enzymology and Metabolism	3	LANC2033+CHEM2110	CR
		University Elective	2		UE
	Total		15		

	Course Code	Course Title	Cr.	Pre-req./Co-req.*	Cat.
Semester 3 Fall	MDLS3101	Molecular Biology and Principles of Genetics	3	LANC2033+CHEM2110	MR
	MDLS3102	Instrumentation	2	LANC2033	MR
	BIOL4500	Cell Biology	3	MEDI2108 + MDLS3101*	MR
	MDLS3104	Response to Infection and Pathobiology	5	LANC2033+CHEM2110 MDLS2106+MEDI2107	MR
		University Elective	2		UE
	Total		15		

Semester 4 Spring	MDLS3202	Pathology & Biochemistry Laboratory Rotation	3	LANC2033+CHEM2110 MDLS3201*	MR
	MEDI3203	Ethics and Professional Behavior	2	LANC2033	MR
	MEDI3100	Medical Informatics II	2	MEDI2100 + LANC2033	CR
	MDLS3201	Introductory to Medical Laboratory Sciences	3	MEDI2107	MR
	IMMU4101	Immunology	3	MDLS3104+ MDLS3101	MR
	MDLS4102	Advanced Instrumentation	3	MDLS3102	MR
	Total		16		

		Course Code	Course Title	Cr.	Pre-req./Co-req.*	Cat.
Semester 5 Fall		MDLS4002	Haematology & Microbiology Laboratory Rotation	3	MDLS3202	MR
		BIOC4101	Systems Pathophysiology	3	MDLS3201	MR
		HAEM4101	Structure and Function of Blood Cells	3	MDLS3201	MR
		MICR4101	General Medical Microbiology	3	LAN2033 & CHEM2110	MR
		PATH4101	Principles of Histopathology	3	MDLS3201	MR
		Total		15		

		MDLS4202	Research Methodology	2	LANC2033	CR
Semester 6 Spring		BIOC4201	Methods in Clinical Chemistry	3	BIOC4101	MR
		HAEM4201	Basic Principles of Blood Banking	3	HAEM4101	MR
		MICR4201	Diagnostic Microbiology	3	MICR4101	MR
		MDLS5001	Molecular Diagnostics	3	MDLS3101	MR
		Total		14		

Semester 7 Fall	MDLS5302	Student Project**	5	MDLS4202	CR
	BIOC4301	Investigation of Endocrine Diseases	3	BIOC4201	MR
	HAEM4103	Laboratory Investigations of Blood Disorders	3	HAEM4201	MR
	MICR4301	Parasitology	3	MICR4101	MR
	PATH4201	Principles of Cytopathology	3	PATH4101	MR
	Total		17		

Semester 8 Spring	MDLS5302	Student Project**	continue	MDLS4202	CR
	MDLS5303	Laboratory Management and Quality Assurance	2	LANC2033	MR
	MDLS5304	Clinical Correlations	3	PATH4202+ HAEM4301+ MICR4301+ BIOC4301	MR
	MDLS5013	Biology of Cancer	4	PATH4202+BIOC4301+ HAEM4301+ MICR4301	SR
	MDLS5014	Medical Virology	4	PATH4202+BIOC4301+ HAEM4301+ MICR4301	SR
	Total		13		

Internship	MDLS5030	360 Hours	0	MDLS5013 and MDLS5014	MR
	Total		0		

LIST B: COLLEGE REQUIREMENTS (22 Credits)

Code	Title	Credits	Pre-Requisite / Co-req. *
LANC2033	Academic English for Medicine	3	FPEL0600 or EL0601 or FPEL0602 or FPEL 0603 or FPEL0604
CHEM2110	Chemistry for Medicine	4	FPMT0105
MEDI2100	Medical Informatics 1	2	FPMT0101
MDLS2106	Basic Anatomical Sciences	4	LANC2033
MEDI2107	Introduction to Human Physiology	4	LANC2033
MEDI2108	Enzymology and Metabolism	3	LANC2033+CHEM2110
MEDI3100	Medical Informatics II	2	MEDI2100

LIST F: MAJOR REQUIREMENTS (78 Credits)

Code	Title	Cr	Pre-Requisite / Co-req. *
MDLS3101	Molecular Biology and Principles of Genetics	3	LANC2033+CHEM2110
BIOL4500	Cell Biology	3	MEDI2108+MDLS3101*
MDLS3102	Instrumentation	2	LANC2033
MDLS3104	Response to Infection and Pathobiology	5	LANC2033+CHEM2110 + MDLS2106 +MEDI2107
MDLS3202	Pathology & Biochemistry Laboratory Rotation	3	LANC2033+CHEM2110+MDLS3201*
MEDI3203	Ethics and Professional Behavior	2	LANC2033
MDLS3201	Introductory Medical Laboratory Sciences	3	MEDI2107
IMMU4101	Immunology	3	MDLS3104+ MDLS3101
MDLS4002	Haematology & Microbiology Laboratory Rotation	3	MDLS3202
MDLS4102	Advanced Instrumentation	3	MDLS3102
BIOC4101	Systems Pathophysiology	3	MDLS3201
HAEM4101	Structure and Function of Blood Cells	3	MDLS3201
MICR4101	General Medical Microbiology	3	LANC2033 & CHEM2110
PATH4101	Principles of Histopathology	3	MDLS3201
BIOC4201	Methods in Clinical Chemistry	3	BIOC4101
HAEM4201	Basic Principles of Blood Banking	3	HAEM4101
MICR4201	Diagnostic Microbiology	3	MICR4101
BIOC4301	Investigation of Endocrine Diseases	3	BIOC4201
PATH4202	Principles of Cytopathology	3	PATH4101
HAEM4301	Laboratory Investigations of Blood Disorders	3	HAEM4201
MICR4301	Parasitology	3	MICR4101
MDLS5304	Clinical Correlations	3	PATH4202+ HAEM4301+ MICR4301+ BIOC4301
MDLS5001	Molecular Diagnostics	3	MDLS3101
MDLS5303	Laboratory Management and Quality Assurance	2	LANC2033

LIST H: SPECIAL REQUIREMENTS (08Credits)

Code	Title	Credits	Pre-Requisite / Co-req. *
MDLS5013	Subject Specialization I	4	PATH4202/BIOC4301/HAEM4301/ MICR4301
MDLS5014	Subject Specialization II	4	PATH4202/BIOC4301/HAEM4301/ MICR4301

*Co-requisite

**The course (Student Project MDLS5302) runs over 2 semesters.