

Professional MS Programs (Graduate)**Curriculum –Professional MS (Biotechnology/Applied Molecular Technologies Option)**

FALL SEMESTER

LS 501	Molecular Biology	3
LS 603	Research Design	3
CH 504	Biochemistry	3
BT 503	Molecular Preparatory Techniques	1
BT 510	Basic Molecular Techniques	4
BT 605	Microbial Genetics	3
MT 531	Immunology	3
		20

SPRING SEMESTER

BT 611	Protein Purification and Characterization	3
BT 520	Cell and Tissue Culture	4
BT 603	Human Genetics	3
BT 610	Molecular Diagnostic Techniques	4
BT 601	Systems Biology	2
LS 613	Pathology	2
LS 801	Research Project I	1
	-	19

SUMMER I & II

LS 610	Regulatory + Fiscal Issues in Laboratory Management	3
LS 802	Research Project II	2
LS 812	Practicum I	2
LS 813	Practicum II	2
LS 814	Practicum III	2
LS 815	Practicum IV	2
LS 816	Comprehensive Examination	1
		14
Total Credits		53

Curriculum – Professional MS (Cytotechnology/Cell Sciences Option)

FALL SEMESTER

LS 501	Molecular Biology	3
LS 603	Research Design	3
LS 511	Functional Histology	2
CT 501	Principles of Cell Analysis	2
CT 511	Gynecologic Cytology and Histocorrelations	3
	Gynecologic Cytology and Histocorrelations	
CT 512	Laboratory	5
CH 504	Biochemistry	3
		21

SPRING SEMESTER

LS 613	Pathology	2
LS 801	Research Project I	1
CT 507	Cellular and Molecular Laboratory Techniques	4
CT 515	Nongynecologic Cytology and Histocorrelations I	4
CT 517	Nongynecologic Cytology and Histocorrelations II	4
CT 525	Cellular and Molecular Diagnostics	3
		18

SUMMER I & II

LS 610	Regulatory and Fiscal Issues in Laboratory Management	3
LS 812	Practicum I	2
LS 813	Practicum II	2
LS 814	Practicum III	2

LS 815	Practicum IV	2
LS 816	Comprehensive Examination	1
LS 802	Research Project II	<u>2</u>
-	-	14
Total Credits		53

Curriculum – Professional MS (Medical Technology/Clinical Laboratory Sciences Option)

FALL SEMESTER

LS 501	Molecular Biology	3
LS 603	Research Design	3
CH 504	Biochemistry	3
MT 512	Microbiology I	3
MT 523	Chemistry I	2
MT 531	Immunology	3
MT 541	Hematology I	<u>3</u>
		20

SPRING SEMESTER

LS 613	Pathology	2
MT 507	Clinical & Molecular Laboratory Techniques	4
MT 513	Microbiology II	3
MT 524	Chemistry II	3
MT 543	Hematology II	3
MT 552	Immunohematology	3
LS 801	Research Project I	1
		19

SUMMER I & II

LS 610	Regulatory and Fiscal Issues in Laboratory Management	3
LS 812	Practicum I	2
LS 813	Practicum II	2
LS 814	Practicum III	2
LS 815	Practicum IV	2
LS 816	Comprehensive Examination	1
LS 802	Research Project II	<u>2</u>
-	-	14
Total Credits		53