

**MORGAN STATE UNIVERSITY
DEPARTMENT OF BIOLOGY
BACHELOR OF SCIENCE DEGREE IN MEDICAL TECHNOLOGY
SUGGESTED CURRICULUM SEQUENCE**

Pre-Professional Phase

FRESHMAN YEAR (FIRST SEMESTER)

ENGL 101-EC	Freshman Composition I	3
XXXX-SB	Social & Behavioral Science	3
CHEM 105-BP	Principles of General Chemistry I +	4
CHEM 105L	Lab or	
CHEM 111	General Chemistry (Honors) +	
CHEM 111L	Lab	
MATH 113-MQ	Intro. to Mathematics Analysis I	4
ORNS 106	Freshman Orientation	1
		15

FRESHMAN YEAR (SECOND SEMESTER)

ENGL 102-EC	Freshman Composition II	3
XXXX-SB	Social & Behavioral Science	3
CHEM 106	Principles of General Chemistry II+	4
CHEM 106L	Lab or	
CHEM 112	General Chemistry and Qualitative Analysis (Honors) +	
CHEM 112L	Lab	
BIOL 105-BP	Introductory Biology for Majors I	4
MDTC 100	Intro. to Medical Laboratory Sci.	1
PHEC XXX	Physical Education	1
		16

SOPHOMORE YEAR (FIRST SEMESTER)

XXXX-AH	Arts & Humanities	3
BIOL 106	Introductory Biology for Majors II	4
CHEM 201	Organic Chemistry (Allied Health)	4
PHIL 109-CT	Introduction to Logic	3
INSS 141-IM	Intro. to Computer-Based Info. Sys	3
		17

SOPHOMORE YEAR (SECOND SEMESTER)

XXXX-AH	Arts & Humanities	3
MATH 114	Intro. to Mathematics Analysis II	4
CHEM 202	Biochemistry (Allied Health)	4
XXXX-HH	Health & Healthful Living	3
XXXX	Complementary Studies	3
		17

***Professional Phase**

JUNIOR YEAR (FIRST SEMESTER)

BIOL 405	Microbiology	4
HIST 350-CI	African Diaspora	3
MDTC 321	Clinical Microscopy	2
BIOL 201	Anatomy and Physiology I	4
MDTC 300	Principles of Medical Technology	3
		16

JUNIOR YEAR (SECOND SEMESTER)

MDTC 330	Clinical Immunoserology	4
MDTC 305	Clinical Chemistry I	3
MDTC 335	Pathogenic Bacteriology	4
**MDTC 320	Clinical Hematology I	3
**MDTC 331	Immunoematology I	3
		17

SENIOR YEAR (SUMMER SEMESTER)

MDTC 410	Clinical Chemistry II	4
		4

SENIOR YEAR (FIRST SEMESTER)

MDTC 420	Clinical Hematology II	3
MDTC 431	Immunoematology II	2
MDTC 440	Clinical Microbiology	5
MDTC 450	Medical Technology Seminar	1
MDTC 470	Intro. to Molecular Diagnostics	2
XXXX	Complementary Studies	3
		16

CLINICAL ROTATIONS

SENIOR YEAR (SECOND SEMESTER)

MDTC 411	Clinical Practicum (Chemistry)	3
MDTC 422	Clinical Practicum (Hema/Micro)	3
MDTC 432	Clinical Practicum (Immunoem)	3
MDTC 441	Clinical Practicum (Microbiology)	3
MDTC 480	Clinical Lab. Science Review	1
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* Admission to program is required to take Professional Phase MT courses

TOTAL CREDIT HOURS 131

** Courses do not run concurrently