

2012-2013 B.S. Biology – Medical Technology Concentration

NAME _____ ID# _____

UNIVERSITY CORE

A. Core Foundations

CORE 101 _____ 3
 CORE 102 _____ 3
 CORE 103* _____ 3
 CORE 201 _____ 3
 CORE 202 _____ 3

NOTE: Courses listed in multiple areas can only be used to fulfill a single area requirement.

Students can use only one course with their major prefix to fulfill core requirements.

* Honors course – will replace CORE 101 & 102 for those students in the RU honors program

Core Curriculum

B. Core Skills & Knowledge

Courses must be from different disciplines:

MATHEMATICAL SCIENCES (3SH)

MATH 119,138, or 151 _____ 3

NATURAL SCIENCES (4 SH)

CHEM 101 _____ 4

HUMANITIES (3 SH)

_____ 3

One of the following: ENGL 200, HIST 101, 102 PHIL 111, 112, 114 POSC 110; RELN 111, 112, 200, 202, 206

SOCIAL/BEHAV. SCIENCES (3 SH)

_____ 3

One of the following: ANSC 101, APST 200 ECON 105, 106 GEOG 101, 102, 103 HIST 111, 112 POSC 120; PSYC 121 RELN 205 SOCY 110, 121

VISUAL & PERFORMING ARTS (3 SH)

_____ 3

One of the following: ART 111, 215, 216 CVPA 266 DNCE 111 MUSC 100, 121, 123 THEA 100, 180

COLLEGE CORE

A. National & International

Perspectives Courses must be from different disciplines:

U. S. PERSPECTIVES (3 SH)

_____ 3

One of the following: APST 200 ECON 101, 105, 106, ENGL 203 GEOG 201, 202, 203 HIST 111, 112 POSC 120, SOCY 110

GLOBAL PERSPECTIVES (3SH)

_____ 3

One of the following: ENGL 201; FORL 103; CVPA 266, GEOG 101, 102, 140, 280 HIST 101, 102 INST 101 ITEC 112 PEAC 200 RELN 112, 205, SOCY 121, THEA 180 WMST 101

B. Supporting Skills & Knowledge

NATURAL SCI. OR MATHEMATICAL SCIENCES (3-4 SH)

STAT 219 _____ 3

HUMANITIES, VISUAL & PERFORMING ARTS, OR FOREIGN LANGUAGES (3-4 SH)

_____ 3

One of the following: ENGL 200; HIST 101, 102; PHIL 111, 112, 114; POSC 110; RELN 111, 112, 203, 206 Or ART 111, 215, 216; CVPA 266; DNCE 111; MUSC 100, 121, 123; THEA 100, 180 Or CHNS 101, 102, 201, 202 FORL 100, 109, 200, 209, 210, 309, 409; FREN 100, 200, 210, 300, 320 GRMN 100, 200, 210, 300 LATN 101,201, 350; RUSS 100, 200, 210, 300; SPAN 101: 102, 201, 202

SOCIAL/ BEHAV. SCI. OR HEALTH & WELLNESS (3SH)

_____ 3

One of the following: ANSC 101, APST 200 ECON 105, 106 GEOG 101, 102, 103 HIST 111, 112 POSC 120; PSYC 121 RELN 205 SOCY 110, 121 HLTH 111,200 NURS 111 NUTR 214; RCPT 200

Medical Technology CONCENTRATION

				Prerequisites	
BIOL	160 _____ (2)	Introductory Seminar in Biology	F/S	Freshmen only	
OR	BIOL 460	Advanced Seminar in Biology			
BIOL	131 _____ (4)	Ecology and Adaptation	F/S		
BIOL	132 _____ (4)	Biology of Cells and Microorganisms	F/S	"C" or better in 131(majors) or "C" or better in CHEM 101	
BIOL	231 _____ (4)	Genetics, Evolution, and Development	F/S	"C" or better in BIOL 132 and 160	
CHEM	101 _____ (4)	General Chemistry	F/SU		
CHEM	102 _____ (4)	General Chemistry	S/SU	CHEM 101	
STAT	219 _____ (3)	Statistics for Biology	F/S/SU		
MATH	119/138/151 _____ (3)	Math Core Curriculum see above	F/S/SU		
BIOL	322 _____ (6)	Human Anatomy and Physiology	F/S/SU	BIOL 105 or BIOL 132:231	
BIOL	334 _____ (4)	Microbiology	F/S/SU	BIOL 105 or BIOL 132:231	
BIOL	337 _____ (4)	Immunology	S	BIOL 132:232	
BIOL	450 _____ (4)	Molecular Biology	F	CHEM 102 & BIOL 231 or BIOL 334	

BIOL 401,402,403 _____ (33) Medical Technology Clinical Courses are taken at the hospital in the following areas:
 Blood Banking Serology
 Hematology and Coagulation Bacteriology
 Clinical Chemistry Parasitology/Clinical Microscopy

B.S. Requirements: (8 hours)

CHEM	301 _____ (4)	Organic Chemistry	F	CHEM 102
CHEM	302 _____ (4)	Organic Chemistry	S	CHEM 301

Sample Schedule B.S. Biology – Medical Technology Concentration 12/13

Biology majors concentrating in Medical Technology take three years of Academic Courses at Radford and spend their senior year (12 months) completing a clinical internship at one of the hospitals affiliated with RU. Students must apply to the hospital at which they wish to complete their clinical coursework. The application process is selective. **Students should have GPA of 2.5 or higher in all math and science courses in order to be considered competitive for admission to a clinical internship site.**

Fall Semester		Spring Semester			
Freshman Year		Freshman Year			
University Core A: Core 101	3	University Core A: Core 102	3		
BIOL 131	4	BIOL 132 "C" or better in 131 (majors) or C or better in CHEM 101	4		
CHEM 101	4	CHEM 102	4		
BIOL 160	2	Math 119, 138, or 151	3		
STAT 219	3	CORE	3		
	16		17		
Declared Biology majors must earn a grade of "C" or better in BIOL 131, 132, 231, before admission to biology electives requiring these courses as prerequisites. Students who enter the major as a freshman must take BIOL 160, those who transfer or change majors after this freshman year will take BIOL 460 instead.					
Sophomore Year		Sophomore Year			
University Core A: Core 201	3	University Core A: Core 202	3		
BIOL 231	4	BIOL 334 BIOL 105 OR BIOL 132:231	6		
CHEM 301 (F ONLY) CHEM 101, 102 (B.S. Requirement)	4	CHEM 302 (S ONLY) CHEM 301 (B.S. Requirement)	4		
CORE	3				
	14		13		
CORE 101, 102, 201, and 202 must be completed in succession. Students should complete CORE 202 prior to their Junior year.					
Junior Year		Junior Year			
CORE	3	CORE	3		
BIOL 450 (F ONLY) CHEM 102 & BIOL 231 or BIOL 334	4	BIOL 337 (S ONLY) BIOL 132 and 232	4		
CORE	3	BIOL 322 BIOL 105 OR BIOL 132: 231	4		
CORE	3	CORE	3		
	13		14		
Clinical Courses are taken at the hospital in the following areas: Blood Banking, Hematology and Coagulation, Clinical Chemistry, Serology, Bacteriology, Parasitology, Clinical Microscopy					
Summer	Cr.	Fall	Cr.	Spring	Cr.
BIOL 401 Medical Technology	11	BIOL 402 Medical Technology	11	BIOL 402 Medical Technology	11
	11		11		11