

JOINT SIX-YEAR B.A. BIOLOGY IM.S. PHYSICIAN ASSISTANT

First Three Years Minimum Credits: 112

		YEAR :	1		
Fall Semester		Cr.	Spring Semester		Cr.
HUM 101	English I	3	GUR Elective	Social Sciences ¹	3
Math 111	Calculus I	4	HUM 102	English Composition II	3
Chem 125	General Chemistry I	3	R830:101	Principles of Psychology	3
BNFO 135	Bioinformatics I	3	Chem 124	General Chemistry Laboratory	1
BIOL 200	Concepts in Biology	4	Chem 126	General Chemistry II	3
Frsh Sem	Freshman Seminar	0	R120:201/202	Foundations of Cell/Molec	4
		17			17
Su	mmer Semester I	Cr. I			
BIOL 310	COOP	3			
GUR Elective	English and Cultural History ²	3			
		3 			
		YEAR 2	2		
Fall Semester		Cr.	Sp	Spring Semester	
Math 105	Probability & Statistics-GUR	3	R120/BIOL 340	Mammalian Physiology	4
BIOL 205/206	Foundation of Ecol/Evol	4	Chem 244	Organic Chemistry II	3
Chem 243	Organic Chemistry I	3	Chem 244A	Organic Chemistry Lab	2
R120:241	Anatomy & Physiology I ³	4	R120:242	Anatomy & Physiology II ³	4
Biology Elective	Biology Elective	3	Biology Elective	Cluster Elective - Ecol/Evol ⁴	3
GUR Elective	Physical Education	1	GUR Elective	Physical Education	1
		18			17
		D	Su	mmer Semester II	Cr.
			GUR Elective	Management ⁵	3
					3
		YEAR :	3		
Fall Semester		Cr.	Sp	Spring Semester	
Phys 111	Physics I	3	Phys 121	Physics II	3
Phys 111A	Physics I Laboratory	1	Phys 121A	Physics II Laboratory	1
R120:320	Comparative Vertebrate Anatomy	4	R120:352	Genetics	3
R120:335	Microbiology	4	Biology Elective	Biology Elective	3
R120:360	Biochemistry	3	GUR Elective	HSS Upper Level	3
GUR Elective	HSS Upper Level ⁶	3	GUR Elective	HSS Senior Seminar	3
		18			16
Total Minimum Credits: 112			, n.	ology Credits: 39	

¹ Social Science Elective: EPS 202, ECON 201/265/266, STS 257/258, approved Rutgers courses.

² English and Cultural History Elective: HUM 211, 212 or HIST 213, approved Rutgers courses.

³ Anatomy & Physiology I & II do not count towards the biology major, but is strongly recommended for MS Physician Assistant Program.

⁴ Biology Cluster Elective - Ecology & Evolution: Choice of BIOL 222, R120:280, R120:282, or R120:370.

 $^{^{\}rm 5}$ Management Elective: Choice of HRM 301, MGMT 390, ENTR 410 or IE 492.

⁶ HSS Upper: 300-level course in COM, ENG, HIST, LIT, PHIL, STS, THTR, or approved Rutgers courses.



JOINT SIX-YEAR B.A. BIOLOGY **T** M.S. PHYSICIAN ASSISTANT

First Three Years Minimum Credits: 112

REQUIRED CORE BIOLOGY COURSES ~ 30 Credits

- □ R120/BIOL 200 Concepts in Biology* (4cr) *Effective from Fall 2011
- ☐ R120:201 Foundations of Cell & Molecular Biology Lecture (3cr)
- ☐ R120:202 Foundations of Cell & Molecular Biology Lab (1cr)
- ☐ BIOL 205 Foundations of Ecology & Evolution Lecture (3cr)
- ☐ BIOL 206 Foundations of Ecology & Evolution Lab (1cr)
- ☐ R120:320 Comparative Vertebrate Anatomy (4cr)
- ☐ R120:335 General Microbiology (4cr)
- ☐ R120/BIOL 340 Mammalian Physiology (4cr)
- □ R120:352 Genetics (3cr)
- □ R120:360 Biochemistry (3cr)

CONCEPT CLUSTER COURSES ~ 3 Credits

Accelerated Majors must complete one course from the following concept cluster elective category.

☐ Ecological and Evolutionary Framework (3cr)

Evolution (BIOL 222) Ecology (R120:280) Animal Behavior (R120:282) Plant Ecology (R120:370)

BIOLOGY ELECTIVES ~ 6 Credits

The courses listed below may be used to complete the 39 required credits of biology course work, once approved by the Advisor:

Animal Parasites (R120:325)

Developmental Biology (R120:342)

Comparative Physiology (R120:345)

Neurobiology (R120/BIOL 346)

Immunology (R120:350)

Human Ecology (R120:365)

Conservation Biology (BIOL 375)

Neural Basis of Behavior (BIOL 383)

Ecology and Evolution of Disease (BIOL 368)

Biology of Cancer (R120:402)

Biological Invasions (R120:422)

Cell Biology of Disease (BIOL 440)

Endocrinology (R120:445)

Cellular and Systems Neuroscience (BIOL 447)

Neuropathophysiology (BIOL 448)

Molecular Cell Biology (R120:455)

Virology (R120:456)

Environmental Assessment (R120:472)

Research and Independent Study (BIOL 491)

Research and Independent Study (BIOL 492)

Seminar in Biology (R120:493)

Seminar in Biology (R120:494)