BIOLOGY / PRE-PHYSICIAN ASSISTANT 2023-2024 ACADEMIC YEAR

me		ID. Number			
	(36)				
LIBERAL STUDIES	(30)	BIOLOGY	(30)		
Foundational English	(3)	BIOL 122 Molecular & Cellular Biology	(3)		
Foundational Philosophy	(3)	BIOL 123 Molecular & Cell Lab	(1)		
Foundational Theology	(3)	BIOL 124 Animal Form and Function	(3)		
Integrative Communication	(3)	BIOL 125 Animal Form and Function Lab	(1)		
Integrative English	(3)	BIOL 126 Ecosystem Biol. and Evolution	(3)		
Integrative History	(3)	BIOL 127 Ecosystem Biol. and Evol. Lab	(1)		
Integrative Philosophy	(3)	BIOL 265 Genetics	(3)		
Integrative Theology	(3)	BIOL 266 Genetics Lab	(1)		
Global Citizenship	(3)	BIOL 365 Human Gross Anatomy	(3)		
Aesthetic Reasoning	(3)	BIOL 366 Human Gross Anatomy Lab	(1)		
Professional Communication	(3)	BIOL 368 Human Physiology	(3)		
Professional Leadership/Ethics	(3)	BIOL 369 Human Physiology Lab	(1)		
Wellness Requirement	. ,		` '		
Wellness Requirement		One of the following series:			
Writing Intensive Requirement		BIOL 331Microbiology	(3)		
		BIOL 332 Microbiology Lab	(1)		
MATHEMATICS (choose from courses below)	(6)	OR			
MATH 111 College Algebra	(3)	BIOL 378 Medical Microbiology	(3)		
MATH 112 Trigonometry	(3)	BIOL 379 Medical Microbiology Lab	(1)		
MATH 140 Calculus I	(3)		(-)		
MATH 141 Calculus II	(3)	One of the following:			
MATH 213 Applied Statistics	(3)	BIOL 487/488/489 Biology Research I	(2)		
NATTI 213 TAPPHER Statistics	(-)	BIOL 490-495 Special Topics	(2)		
		<u>CHEMISTRY</u>	(16)		
PHYSICS PHYSICS	(8)	CHEM 111 General Chemistry I	(3)		
PHYS 105 College Physics 1	(3)	CHEM 112 General Chemistry I Lab	(1)		
PHYS 106 College Physics 1 Lab	(1)	CHEM 114 General Chemistry II	(3)		
PHYS 108 College Physics 2	(3)	CHEM 115 General Chemistry II Lab	(1)		
PHYS 109 College Physics 2 Lab	(1)	CHEM 221 Organic Chemistry I	(3)		
	. ,	CHEM 222 Organic Chemistry I Lab	(1)		
GENERAL ELECTIVES*	(9)	CHEM 224 Organic Chemistry II CHEM 225 Organic Chemistry II Lab	(3) (1)		
		BIOLOGY ELECTIVES (Above 200 Level) *†#	(15)		
		(CHEM366/367-Structural Biochemistry and	. ,		
		CHEM 368-Biochemical Pathways are also			
		options to fulfill the Biology Electives)			
* Note: Please see undergraduate catalog for					
course selections.					
† Note: Students are required to complete a		NT NT			
minimum of 1 lab associated with biology		# Note: No more than 4.0 credits of BIOL 487-489			
elective courses.		may be used to fulfill the 15 biology elective			
Note: Only 1 course from 496-499 may be used to		credits.			
fulfill the biology degree requirements.					

Minimum Total Credits: 120 Effective Date: Fall 2023

BIOLOGY/PRE-PHYSICIAN ASSISTANT

Recommended Schedule of Courses

(Numerals in front of courses indicate credits)

3

 $\frac{3}{14}$

Professional Communication

General Electives[†]

4 4 3 3 0	FRESHMAN First Semester Molecular & Cellular Biology / BIOL 122-123 General Chemistry I / CHEM 111-112 Foundational English Foundational Theology Gannon 101	4 4 3 3	Second Semester Animal Form & Function / BIOL 124-125 General Chemistry II / CHEM 114-115 Mathematics / MATH 111, 112, 140, 141, 213* Foundational Philosophy
14		14	
4 4 3 3 3 3 17	SOPHOMORE Third Semester Ecosystem Biology & Evolution / BIOL 126-127 Organic Chemistry I / CHEM 221-222 Integrative Communication Integrative English Mathematics / MATH 111, 112, 140, 141, or 213*	4 4 3 3 3 17	Fourth Semester Genetics / BIOL 265-266 Organic Chemistry II / CHEM 224-225 General Elective [†] Integrative History Integrative Philosophy
4 4 4 3 3	JUNIOR Fifth Semester Biology Elective with lab (200-level or higher) # Human Physiology / BIOL 368-369 College Physics 1 / PHYS 105-106 Integrative Theology	4 4 3 3 2	Sixth Semester Microbiology / BIOL 331-332 College Physics 2 / PHYS 108-109 Aesthetic Reasoning Global Citizenship Biology Research / BIOL 487-489 OR Special Topics in Biology / BIOL 490-495
4 4	SENIOR Seventh Semester Human Gross Anatomy / BIOL 365-366 Biology Elective with lab (200-level or higher)#	7-8 3	Eighth Semester Biology Electives (200-level or higher) # General Electives [†]

*Students interested in pursuing a Physician Assistant graduate degree (M.S. program) are strongly encouraged to complete a statistics course to partially fulfill the mathematics requirement.

13

Professional Ethics/Leadership

*Please refer to Gannon University's Undergraduate Catalog for course options. Students must meet all pre-requisites and/or corequisites to register for a course. Students must complete a total of 27 credits of biology electives (200-level or higher) to graduate with the B.S. in biology. 12 of those 27 credits are accounted for by BIOL 365/366, BIOL 368/369, and microbiology (BIOL 331/332 or BIOL 378/379). Please refer to the catalog for the Biology Department's policy on laboratories associated with upper-level (BIOL 200-level or higher) courses. Please refer to notes listed within the curriculum matrix on page 1 and described in the undergraduate catalog.

†Please refer to Gannon University's Undergraduate Catalog for course options.