Rowan College of South Jersey
EQUINE SCIENCE: PRE-VETERINARY MEDICINE OPTION
Associate in Science (A.S.)
Four Semester Sequence of Courses

This biology program option provides students with the basic course requirements to satisfy the first two years of a baccalaureate degree in pre-veterinary medicine or to apply to a veterinary medicine doctoral program that accepts associate degree candidates. Veterinary medicine doctoral programs will require students complete the GRE, Biochemistry at a different institution and work or volunteer hours in the field. Students who have completed the program will be able to:

- Demonstrate knowledge of theory and practical experience and handling in anatomy, physiology, nutrition, behavior, health and reproduction of the horse and other animal species.
- Demonstrate knowledge of major concepts in animal and equine science, biology, chemistry, physics, and mathematics essential for further study in veterinary medicine.

FIRST YEAR – Fall Semester				Credits
____	BIO	101	General Biology	4
____	BIO	116	Animal Science	4
____	CHM	111	General Chemistry I	4
____	MAT	108	Calculus I	4
				16
Spring Semester				
____	ENG	101	English Composition I **OR**	
____	ENG	101E	Enhanced English Composition I	3-4
____	BIO	102	General Biology II	4
____	BIO	115	Introduction to Equine Science	4
____	CHM	112	General Chemistry II	4
____	___	___	Humanities General Education Elective	3
				18-19
SECOND YEAR-Fall Semester				
____	ENG	102	English Composition II	3
____	CHM	201	Organic Chemistry I	4
____	PSY	101	General Psychology	3
____	HPE		Health and Physical Education elective	1-3
____	___	___	Social Science or Humanities General Education Elective	3
				14-16
	Spring Semester			
____	BIO	216	Equine Capstone Practicum	3
____	CHM	202	Organic Chemistry II	4
____	BIO	215	Microbiology **OR**	
____	BIO	221	Cell and Molecular Biology*	4
____	____	___	Lab Science Elective*	4
				15

TOTAL MINIMUM CREDITS **63**

*Students planning to apply to Ross University's doctoral Veterinary Medicine program should select BIO 221 and PHY 103 for their Science Elective. Students planning to transfer to Rowan University should select either BIO 215 or BIO 221 and BIO 209 for their science elective. Students planning to transfer to Rutgers University should select BIO 215 and PHY 103 for their science elective. Check requirements of transfer institution for other transfer institution recommendations.

Rowan College of South Jersey
EQUINE SCIENCE: PRE-VETERINARY MEDICINE OPTION
Associate in Science (A.S.)
Required Core and Elective Courses

			Credits
Communications			
ENG	101	English Composition I	3
ENG	102	English Composition II	3
Mathematics			
MAT	108	Calculus	4
___	___	Lab Science Elective	4
BIO	101	General Biology I	4
Humanities			
___	___	Humanities General Education Elective	3
Social Science or Humanities			
___	___	Social Science or Humanities General Education Elective	3
HPE			
HPE	___	Health and Physical Education Elective	1-3
Program Requirements			
PSY	101	General Psychology	3
BIO	102	General Biology II	4
CHM	111	General Chemistry I	4
CHM	112	General Chemistry II	4
CHM	201	Organic Chemistry I	4
CHM	202	Organic Chemistry II	4
BIO	116	Animal Science	4
BIO	115	Equine Science	4
BIO	215	Microbiology **OR**	
BIO	221	Cell and Molecular Biology	4
		Total Minimum Credits:	**63**