

VETERINARY TECHNOLOGY (AAS-VT)

Program Description: The Veterinary Technology program is a two year program offered by the Agriculture Department of Hinds Community College. This program is accredited by the American Veterinary Medical Association. Graduates may become a Certified Veterinary Technician upon passing the certification examination offered by the Mississippi Veterinary Medical Board. Employment opportunities for Veterinary Technicians include small and large animal practices, medical research, pharmaceutical research, wildlife rehabilitation, humane societies, zoological parks, and government agencies. **Applicants must have attained level 3 math standing prior to admission to the program.**

Campus Locations: Raymond – (601) 857-3456
Internship – Approved practice or veterinary facility

RAYMOND CAMPUS

*Academic Courses in Red

*Technical Courses in Black

Course #	Course Title	LEC	LAB	SWE	SCH
1st Year					
1st Semester					
ENG 1113	English Composition I	3	0	0	3
RST 1312	Orientation	2	0	0	2
VAT 1122	Office Procedures/Vet Terminology	2	0	0	2
VAT 1212	Animal Restraint & Medication	2	0	0	2
VAT 1413	Surgical & Hospital Techniques	3	0	0	3
VAT 1113	Vet Lab 1	0	0	6	3
Total					15

Prerequisite for second semester: Successful completion of all previous required VAT courses with a grade of "C" or higher.

Course #	Course Title	LEC	LAB	SWE	SCH
1st Year					
2nd Semester					
SPT 1113/2173	Speech or Interpersonal Communications	3	0	0	3
CHE 1313	Principles of Chemistry	3	0	0	3
VAT 1314	Animal Anatomy & Physiology	3	2	0	4
VAT 2112	Pharmacology	2	0	0	2
VAT 1111	Vet Math	1	0	0	1
VAT 1123	Vet Lab 2	0	0	6	3
Total					16

Prerequisite for second year first semester: Successful completion of all previous required VAT courses with a grade of "C" or higher.

Course #	Course Title	LEC	LAB	SWE	SCH
2nd Year	1st Semester				
BIO 2923	Microbiology	3	0	0	3
BIO 2921	Microbiology Laboratory	0	2	0	1
VAT 2113	Animal Health Care	3	0	0	3
VAT 2163	Clinical Pathology	3	2	0	3
VAT 2272	Principles of Imaging	2	0	0	2
VAT 2133	Vet Lab 3	0	0	6	3
	Fine Arts/Humanities	3	0	0	3
Total					18

Prerequisite for second year second semester: Successful completion of all previous required VAT courses with a grade of "C" or higher.

Course #	Course Title	LEC	LAB	SWE	SCH
2nd Year	2nd Semester				
VAT 2223	Large Animal Procedures	3	0	0	3
VAT 2172	Exotic/Lab Animal Procedures	2	0	0	2
VAT 2152	Animal Parasites & Disease	2	0	0	2
VAT 2122	Board Examination Review	2	0	0	2
VAT 2143	Vet Lab 4	0	6	6	3
	Behavioral/Social Science	3	0	0	3
Total					15

Internship: Summer following second year.

Prerequisite: Successful completion all academic courses in the veterinary technology curriculum with an over-all GPA of 2.0 and no less than a "C" in all required VAT courses.

VAT 2184 Internship (4 SH) **4**

COMPLETION AWARD: Associate of Applied Science Degree **Totals Hours 68**

COURSE DESCRIPTIONS:**TECHNICAL COURSES:****FIRST YEAR****1ST SEMESTER****VAT 1122- Office Procedures/Veterinary Terminology (2 SH)**

Veterinary technician's role in practice management; accounting basics, personnel management, leadership skills' stress management' customer relations and practice ethics. The course will include a study of the veterinary medical terms relating to Anatomy & Physiology, diseases, medical procedures, and clinical practice.

VAT 1212 Animal Restraint and Medication (3 SH)

Animal restraint and medication is the study and practice of restraining small animals, utilizing both chemical and physical means of safe and humane restraint. Included in the course is basic terminology, usage, administration, and general knowledge of common drugs and vaccines. Students will become familiar with Medical Terminology. (2 hr lecture, 3 hr clinical)

VAT 1413 Surgical and Hospital Techniques (3 SH)

(Prerequisite: Successful completion of first semester's VAT courses with a grade of "C" or higher) Surgical and Hospital Techniques I is the study and practical application of sterile techniques, preparation of the surgical site, operating room conduct, assisting the surgeon, pre-anesthetic, anesthesiology, and anesthetic emergencies. (3 hr lecture)

VAT 1113 Vet Lab 1 (3 SH)

The practical application of animal restraint and medication is the study and practice of restraining animals, utilizing both chemical and physical mean. Included in the course are medical terminology and the administration and general knowledge of common drugs and vaccines. (6 hr clinical)

2ND SEMESTER**VAT 1111 Veterinary Mathematics (1 SH)**

(Prerequisite: Successful completion of first semester's VAT courses with a grade of "C" or higher) Reviews general mathematics and presents metric-apothecary conversions, calculations of oral and parenteral dosages, drug classification, and abbreviations and symbols. Special attention is given to veterinary clinical work problems.

VAT 1314 Animal Anatomy and Physiology (4 SH)

(Prerequisite: Successful completion of first semester's VAT courses with a grade of "C" or higher) Animal Anatomy and Physiology introduces the student to basic anatomy and physiology as related to the needs of a Veterinary Technician. Special emphasis is given to the structure of a selected cadaver, location of specific structures, and functions of these structures. (3 hr lecture, 2 hr lab)

VAT 2112 Veterinary Pharmacology (2 SH)

(Prerequisite: Successful completion of first year VAT courses with a grade of "C" or higher) The student will be instructed in basic knowledge of various aspects of pharmacology. This will include the area pharmacokinetics, proper handling of Controlled Substances dosage calculation and fluid therapy. (2 hr lecture)

VAT 1123 Vet Lab 2 (3 SH)

(Prerequisite: Successful completion of first semester's VAT courses with a grade of "C" or higher) Practical application of surgical and hospital techniques I is the study and practical application of sterile techniques, preparation of the surgical site, operating room conduct, assisting the surgeon, pre-anesthetic, anesthesiology, and anesthetic emergencies. (6 hr clinical)

SECOND YEAR**1ST SEMESTER****VAT 2113 Animal Health Care (3 SH)**

(Prerequisite: Successful completion of first year VAT courses with a grade of "C" or higher) General health care of small animals including nutrition, emergency care, first aid, animal hygiene, disease detection, and small animal sanitation. (3 hrs)

VAT 2163 Clinical Pathology (3 SH)

(Prerequisite: Successful completion of first year VAT courses with a grade of "C" or higher) Clinical Pathology is the study and practical application of veterinary diagnostic aids. The course includes hematology, blood chemistries, serology, urinalysis, fecal analysis, and organ function test. (3 hr)

VAT 2272 Principles of Imaging (2 SH)

(Prerequisite: Successful completion of first, second, and third semester VAT courses with a grade of "C" or higher) Radiology includes general concept of radiology, exposure, positioning, developing techniques and solving common problems of radiology. Safety is emphasized throughout the course. The course also includes exposure to ultrasound diagnostic.

VAT 2133 Vet Lab 3 (3 SH)

(Prerequisite: Successful completion of first year VAT courses with a grade of "C" or higher) Includes practical application of veterinary diagnostic aids, hematology, blood chemistries, serology, urinalysis, fecal analysis, and organ function test. (6 hr clinical)

2ND SEMESTER**VAT 2223 Large Animal Procedures (2 SH)**

(Prerequisite: Successful completion of first, second, and third semester VAT courses with a grade of "C" or higher) The student will be instructed in the care and handling of equine and food animals. Maintenance of health care to include proper nutrition, husbandry and handling will be emphasized. (2 hr)

VAT 2172 Exotic/Lab Animal Procedures (2 SH)

(Prerequisite: Successful completion of first, second, and third semester VAT courses with a grade of "C" or higher) The student will be instructed in the care and handling of laboratory animals and wild, exotic, and zoo animals. Maintenance of health laboratory animals to include proper nutrition, husbandry and handling will be emphasized.

VAT 2152 Animal Parasites and Diseases (2 SH)

(Prerequisite: Successful completion of first, second, and third semester VAT courses with a grade of "C" or higher) Animal Parasites and Diseases will include the study of etiology, symptoms, pathology, transmission, duration, prognosis, prevention, and general knowledge of common parasites and diseases of farm animals and pets. (2 hr lecture)

VAT 2122 Board Examination Review (2 SH)

Prerequisite: Successful completion of first, second, and third semester VAT courses with a grade of "C" or higher) Comprehensive review to assist the student in preparation for state and national certifying examinations for the veterinary technicians. The course will review basic science, clinical practices, diagnostics, and ethical concerns.

VAT 2143 Vet Lab 4 (3 SH)

(Prerequisite: Successful completion of first, second, and third semester VAT courses with a grade of "C" or higher) Includes practical application of large animal, exotic and laboratory animals. (6 hr clinical)

SUMMER SEMESTER**VAT 2184 Internship (4 SH)**

(Prerequisite: Successful completion all academic courses in the veterinary technology curriculum with an over-all GPA of 2.0 and no less than a "C" in all required VAT courses.) A Veterinary Technician student will be required to complete a one 6-week internship with an APPROVED veterinary practice and /or a laboratory animal facility. The internship provides hands-on experience in a small animal, mixed animal, large animal or laboratory animal facility. (12 hr Clinical)