NOTE: This form is a cover sheet that must accompany the degree program change proposal. The actual proposal should be prepared in accordance with format requirements provided in the Guide and Format for Curriculum Proposals published by the UCCC. Both cover sheet and proposal should be submitted, along with all required copies, to UCCC, Butler-Williams Building, Suite B, 100 Walker Road, (Mail Stop 9699).

College or School: Vet Med
Department: College of Veterinary Medicine
Contact Person: Dr. Mikell Davis
Phone: 662-325-1388 E-mail: davis@cvm.msstate.edu
Nature of Change: New Program
Date Initiated: Mar 2008 Effective Date: Fall 2010
New or Current Degree Program Name: Veterinary Medical Technology Program

Summary of Proposed Changes:

To create a Veterinary Medical Technology Bachelor’s Degree Program. This program will not duplicate any other program in any of the private or public four-year institutions in Mississippi. The first two years of the curriculum will involve the completion of the core curriculum of Mississippi State University and additional science courses essential for entry into the junior year of the program. Entry into the junior year will be competitive and enrolment will be limited. Completion of the program will create opportunities for graduates who will be highly sought after to fill positions in private practice, research institutions, public health entities, institutional veterinary medicine, medical schools, pharmaceutical companies and other positions associated with the care and welfare of animals.

Approved:

Date:

Department Head

Chair, College or School Curriculum Committee

Dean of College or School

Chair, University Committee on Courses and Curricula

Chair, Graduate Council (if applicable)

Chair, Denis Council

3/26/08

3/27/08

5/19/08

6/23/08
College of Veterinary Medicine

March 26, 2008

Dr. Timothy N. Chamblee, Chair
University Committee on Courses and Curricula
Mississippi State University

Dear Dr. Chamblee:

The Curriculum Committee of the College of Veterinary Medicine has reviewed the proposal to create the Veterinary Medical Technology Program and has voted to endorse the proposal.

As a part of the proposal the Committee recommends the approval of the following modified courses:

1. CVM 2212 Necropsy Techniques modified to CVM 3141 Anatomical Pathology,
2. CVM 2124 Equine Medical Techniques modified to CVM 4103 Equine Clinical Rotation,
3. CVM 2134 Food Animal Medical Techniques modified to CVM 4113 Food Animal Clinical Rotation,
4. CVM 2114 Small Animal Medical Techniques modified to CVM 4203 Small Animal Medical Rotation,
5. CVM 2144 Surgical Techniques modified to CVM 4213 Small Animal Surgery Rotation,
6. CVM 2104 Small Animal Health Techniques modified to CVM 4223 Small Animal Primary Care Rotation,
7. CVM 2154 Anesthetic Techniques modified to CVM 4303 Anesthesia Rotation,
8. CVM 2164 Radiological Imaging Techniques modified to CVM 4313 Diagnostic Imaging Rotation, and
9. CVM 2202 Pharmacy Techniques modified to CVM 4323 Pharmacy Rotation,
10. CVM 2312 Techniques for Laboratory Animals modified to CVM 4403 Laboratory Animal Rotation.

Also, as a part of the proposal the Committee recommends the approval of the following new courses:

1. CVM 2101 Veterinary Technology Medical Terminology,
2. CVM 3012 Small Animal Diseases and Management,
3. CVM 3021 Small Animal Technical Skills & Nursing Care,
4. CVM 3031 Food Animal Technical Skills & Nursing Care,
5. CVM 3032 Food Animal Diseases and Management,
6. CVM 3041 Equine Technical Skills & Nursing Care,
7. CVM 3042 Equine Diseases and Management,
8. CVM 3051 Laboratory Animal Health Management,
9. CVM 3061 Laboratory Animal Technical Skills,
10. CVM 3111 Parasitology for Veterinary Technologists,
11. CVM 3121 Hematology for Veterinary Technologists,
12. CVM 3131 Clinical Pathology Laboratory Techniques I,
13. CVM 3202 Diagnostic Imaging for Veterinary Technologists,
14. CVM 3212 Anesthesiology for Veterinary Technologists,
15. CVM 3221 Surgical Nursing and Anesthesia Management Laboratory,
16. CVM 3222 Surgical Skills & Nursing Care for Veterinary Technologists,
17. CVM 3231 Clinical Pathology Laboratory Techniques II,
18. CVM 3232 Pharmacology & Toxicology for Veterinary Technologists,
19. CVM 3243 Basics of Practice Procedures and Management
20. CVM 4003 Careers & Professional Development for Veterinary Technologists,
21. CVM 4123 Large Animal Ambulatory Rotation,
22. CVM 4333 Small Animal Emergency and Critical Care Rotation, and
23. CVM 4503 Diagnostic Laboratory Rotation.

Thank you for your consideration of the proposed Veterinary Medical Technology Program, modified courses, and new courses.

With regards,

Dr. Michael Brashier, Chair
College of Veterinary Medicine Curriculum Committee
New Degree Program Proposal

Veterinary Medical Technology
Bachelor’s of Science
Degree Program

College of Veterinary Medicine

Mississippi State University
## Appendix 8: New Degree Program Proposal

**Institution:** Mississippi State University

<table>
<thead>
<tr>
<th>Date of Implementation:</th>
<th>Six Year Cost of Implementation:</th>
<th>Per Student Cost of Implementation:</th>
</tr>
</thead>
<tbody>
<tr>
<td>August 2009</td>
<td>$1,806,796.75 cumulative</td>
<td>$6,809.52 upon enrollment</td>
</tr>
</tbody>
</table>

**Program Title as will Appear on Academic Program Inventory, Diploma, and Transcript:** Veterinary Medical Technology

**Six Digit CIP Code:** 51.0808

**Degree(s) to be Awarded:** Bachelor of Science

**Credit Hour Requirements:** 124

**Number of Students Expected to Enroll in First Six Years:**

<table>
<thead>
<tr>
<th>Year</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year One</td>
<td>0</td>
</tr>
<tr>
<td>Year Two</td>
<td>24</td>
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<tr>
<td>Year Three</td>
<td>48</td>
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<tr>
<td>Year Four</td>
<td>48</td>
</tr>
<tr>
<td>Year Five</td>
<td>60</td>
</tr>
<tr>
<td>Year Six</td>
<td>72</td>
</tr>
<tr>
<td>Total</td>
<td>252</td>
</tr>
</tbody>
</table>

**Number of Graduates Expected in First Six Years:**

<table>
<thead>
<tr>
<th>Year</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year One</td>
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</tr>
<tr>
<td>Year Two</td>
<td>0</td>
</tr>
<tr>
<td>Year Three</td>
<td>24</td>
</tr>
<tr>
<td>Year Four</td>
<td>24</td>
</tr>
<tr>
<td>Year Five</td>
<td>24</td>
</tr>
<tr>
<td>Year Six</td>
<td>36</td>
</tr>
<tr>
<td>Total</td>
<td>108</td>
</tr>
</tbody>
</table>

**Program Summary:**

The proposed Veterinary Medical Technology Bachelor's Degree program will not duplicate a program in any of the private or public four-year institutions in Mississippi. The first two years of the curriculum will involve the completion of the core curriculum of Mississippi State University and additional science courses essential for entry into the junior year of the program. Entry into the junior year will be competitive and enrollment will be limited. Completion of the program will create opportunities for graduates who will be highly sought after to fill positions in private practice, research institutions, public health entities, institutional veterinary medicine, medical schools, pharmaceutical companies and other positions associated with the care and welfare of animals. The above student numbers only reflect numbers of the junior and senior years of the program.
New Degree Program Proposal

Veterinary Medical Technology
Bachelor’s of Science
Degree Program

Role and Mission
Administration
Educational Objectives
Admission Requirements
Professional Accreditation
Credit Hours and Curriculum
Supporting Fields
Faculty
State Needs
Program Potential
Resources
Internal Assessment
Role and Mission
The mission of College of Veterinary Medicine at Mississippi State University (MSU-CVM) is to educate future veterinarians, educate veterinarians and scientists, and improve the quality of life for producers, pet owners, and the public in general. The College accomplishes this mission by providing quality educational experiences, delivering outstanding professional services and impacting society through research. The College is committed to continual advancement of the veterinary profession and abides by the principles of the veterinarian’s oath.

The Bachelor of Science degree in Veterinary Medical Technology furthers the mission of the MSU-CVM by adding the education of essential members of the professional support team of veterinary medicine. Veterinary technologists graduating from this program will enhance the quality and quantity of the service that veterinarians provide to the producers, pet owners, and the public in general. It is also anticipated that the graduates will assist researchers not only in veterinary medical research, but also in biomedical research. Other opportunities will exist in teaching, regulatory veterinary medicine, public health, zoo medicine and humane society work as well as the pharmaceutical industry.

The Veterinary Medical Technology Program will help meet the overall priorities/goals of MSU-CVM’s strategic plan relative to veterinary medical education. The proposed program will provide an educational opportunity to individuals who will be key contributors to the delivery of veterinary medical services to the private sector, institutional and private research endeavors and public health. Therefore, the proposed Veterinary Medical Technology Program will enhance the College’s strategic plan. The addition of this program will assure that MSU-CVM’s contribution to the veterinary profession and everyone the profession serves will be enhanced to a higher level.

Anticipated institutional impact would include:
- A Bachelor’s Degree program for the MSU-CVM,
- A program that does not duplicate any program of MSU or any other four-year institution in Mississippi,
- A program that will provide educational opportunities in a career field where an undersupply of graduates is present, and
- A program whose top graduates will be sought by the MSU-CVM to facilitate educational, clinical and research activities of the College.

Administration
The Veterinary Medical Technology Program will be administered through the MSU-CVM Department of Clinical Sciences.

The program will be directed by Dr. P. Mikell Davis, Director of Special Education. Dr. Davis has been associated with the College for 27 years. Dr. Davis has been a member of the MSU-CVM Admissions Committee for 22 years and has chaired that committee for
Mississippi State University  
College of Veterinary Medicine  
New Program Proposal  
Veterinary Medical Technology, Bachelor's Degree

20 years. He will be responsible for program oversight: student recruitment and admission, student academic advisement, curriculum development and ongoing program delivery and review.

Educational Objectives

Educational objectives of the Veterinary Medical Technology Program are:

• To offer a curriculum that will allow students the opportunity to acquire the scientific and practical knowledge that will allow them to become integral components of the veterinary profession,

• To graduate students with a bachelor’s degree who are highly sought after to fill positions in private practice, research institutions, public health entities, institutional veterinary medicine, medical schools, pharmaceutical companies and other positions associated with the care and welfare of animals, and

• To offer continuing education to our graduates and others in the associated career fields that will assist them in remaining current on advancements in veterinary medicine.

The Veterinary Medical Technology Program will not have multiple curricula.

Admission Requirements

Undergraduate students who enroll in Mississippi State University may choose to pursue a bachelor’s degree in Veterinary Medical Technology. Enrollment in the program will be with the understanding that a limited number of students (24 initially) will be competitively admitted to the junior year of the program.

Up to ten students may be pre-admitted to the junior year of the program prior to entering MSU. Applicants for pre-admission may be high school seniors or high school graduates who have no more than 12 hours of college courses on their record. Academic qualifications for application include an ACT score of 21 and a high school average of 80. Successful applicants for pre-admission must complete the core courses at MSU after which the student is guaranteed a position in the junior year, provided a GPA of 2.75 with no grade less than “C” has been maintained.

The remaining positions for the junior class of the Veterinary Medical Technology Program will be filled through a competitive application process. Applicants must have completed or be in progress of specified prerequisite courses which include Mississippi State University’s core curriculum. Applicants must have an overall GPA of 2.5 and have no grade less than “C” in any prerequisite course. Application deadline will be January 15. Notification of successful applicants will be April 1. Classes for the junior year will begin the fall semester 2010. Twenty-four positions will be available fall semester 2010.

The number of students accepted into the junior year will be limited because of the available space for clinical rotations in the teaching hospital. An increased number of
junior students accepted into the program will depend on space in the Animal Health Center.

Unsuccessful applicants to the junior year will be counseled by the director of the program. Goals for the counseling sessions will be:

- To develop plans for becoming a more competitive applicant for the following year,
- To explore career options if the student is not successful in gaining admission to the program, and
- To develop an academic plan for accomplishing formulated plans.

Applicants may be potential transfer students from other two- and four-year institutions. It is possible that articulation agreements could be established with some of the Mississippi community colleges.

**Professional Accreditation**

The MSU-CVM is accredited by the Council on Education of the American Veterinary Medical Association, the worldwide accrediting body for veterinary schools and colleges.

Currently, the MSU-CVM has only one degree program, Doctor of Veterinary Medicine. Full accreditation and positive outcomes assessment of graduates help to verify that the teaching, research and service record of the College is excellent. In addition, graduate programs, administered by the Graduate School and taught in the College, add significantly to the productivity record of the MSU-CVM.

Accreditation for the Veterinary Medical Technology Program will be sought through the Committee on Veterinary Technician Education and Activities of the American Veterinary Medical Association, the accrediting body for veterinary technology programs in the United States.

It is not anticipated that a SACS visit for substantive change will be necessary.

**Credit Hours and Curriculum**

The Veterinary Medical Technology Program will require 124 credit hours for graduation.

The program’s curriculum will be similar to the programs at Purdue University and Michigan State University. The most significant difference in MSU-CVM’s proposed program and those of Purdue and Michigan State is the higher number of university core requirements.

The curriculum will meet, and in some cases exceed, the requirements for the graduates of the program to sit the certification exam.
Mississippi State University
College of Veterinary Medicine
New Program Proposal
Veterinary Medical Technology, Bachelor’s Degree

The following is the entire course of study.

EN 1103 English Composition I Presently exists
EN 1113 English Composition II Presently exists
CO 1003 Fundamentals of Public Speaking Presently exists
MA 1313 College Algebra Presently exists
MA 1323 Trigonometry Presently exists
BIO 1134 Principles of Biology I Presently exists
BIO 1144 Principles of Biology II Presently exists
BIO 3304 Microbiology Presently exists
CH 1043 Survey of Chemistry I Presently exists
CH 1053 Survey of Chemistry II Presently exists
CH 1051 Investigations in Chemistry Presently exists
Social/Behavioral Science Presently exists
Social/Behavioral Science Presently exists
Fine Arts Presently exists
CVM 2101 Veterinary Technology Medical Vocabulary To be developed
CVM 3012 Small Animal Diseases and Management To be developed
CVM 3021 Small Animal Technical Skills and Nursing Care To be developed
CVM 3032 Food Animal Diseases and Management To be developed
CVM 3031 Food Animal Technical Skills and Nursing Care To be developed
CVM 3042 Equine Diseases and Management To be developed
CVM 3041 Equine Technical Skills and Nursing Care To be developed
CVM 3051 Laboratory Animal Health and Management To be developed
CVM 3061 Laboratory Animal Technical Skills To be developed
CVM 3111 Parasitology for Veterinary Technologists To be developed
CVM 3121 Hematology for Veterinary Technologists To be developed
CVM 3131 Clinical Pathology Laboratory Techniques I To be developed
CVM 3141 Anatomical Pathology Laboratory Techniques To be developed
CVM 3202 Diagnostic Imaging for Veterinary Technologists To be developed
CVM 3212 Anesthesiology for Veterinary Technologists To be developed
CVM 3222 Surgical Skills & Nursing Care for Veterinary Technologists To be developed
CVM 3221 Surgical Nursing & Anesthetic Management Laboratory To be developed
CVM 3232 Pharmacology & Toxicology for Veterinary Technologists To be developed
VS 3014 Anatomy & Physiology Presently exists
CVM 3231 Clinical Pathology Laboratory Techniques II To be developed
CVM 3243 Basics of Practice Procedures and Management To be developed
Junior/Senior Level Writing Course Presently exists
CVM 3303 Careers & Professional Development for Veterinary Technologists To be developed
CVM 4103 Equine Clinical Rotation Presently exists*
CVM 4113 Food Animal Clinical Rotation Presently exists*
CVM 4123 Large Animal Ambulatory Rotation To be developed
CVM 4203 Small Animal Medical Rotation Presently exists*
CVM 4213 Small Animal Surgery Rotation Presently exists*
CVM 4223 Small Animal Primary Care Rotation Presently exists*
CVM 4303 Anesthesia Rotation Presently exists*
CVM 4313 Diagnostic Imaging Rotation Presently exists*
CVM 4323 Pharmacy Rotation Presently exists*
CVM 4333 Small Animal Emergency/Critical Care Rotation To be developed
CVM 4403 Laboratory Animal Rotation Presently exists*
CVM 4503 Diagnostic Laboratory Rotation To be developed

* Currently existing course that will be assigned a new course number and a change in credit hours.
Course descriptions are found in appendix 1.

The second summer session prior to the senior year and the senior year of the Veterinary Medical Technology Program are clinical rotations. One of those is the Large Animal Ambulatory Rotation which occurs on the premises of food animal and equine producers.

There are no cross-listed courses for master’s programs.

All course documentation will be presented to the University Committee on Courses and Curricula prior to the end of the spring semester 2008.

Supporting Fields
The Doctor of Veterinary Medicine degree will have a very close and supportive relationship with the Veterinary Medical Technology Program. Students of both curricula will rotate through the clinical rotations simultaneously. The professional relationship between veterinary medical and veterinary technology students will carry over beyond graduation as the technology graduates assist and support the work of veterinarians.

Faculty
With the exception of one course, the freshman and sophomore years of the curriculum (university core curriculum plus additional science courses) will be taught by undergraduate departments of the University. Veterinary Medical Vocabulary will be taught by an MSU-CVM faculty member.

The junior year of the curriculum will be delivered in a didactic format and the senior year will be clinical rotations in the veterinary teaching hospital. The following faculty will have responsibilities in the delivery of the curriculum:

- P. Mikell Davis, D.V.M.
- Andrew Mackin, B.Sc., B.V.M.S., M.V.S., D.V.Sc., Dip. A.C.V.I.M.
- Lanny Pace, D.V.M., Ph.D., A.C.V.P.
- Lucy Senter, M.S., D.V.M., M.S., A.C.L.A.M.
- Robert L. Linford, D.V.M., Ph.D., A.C.V.S.
- Robert E. Meyer, D.V.M., A.C.V.A.
- Ron McLaughlin, D.V.M., D.V.Sc., A.C.V.S.
- Sharon Fooshee Grace, M.S., M.Ag., D.V.M., A.B.V.P., A.C.V.I.M.
- Stephen B. Pruett, B.D., Ph.D.
- Vernon Cory Langston, D.V.M., Ph.D., A.C.V.C.P.

See appendix 2.

It is anticipated that two additional faculty, one administrative assistant, one laboratory support person and one office support person will be added to facilitate the delivery of the curriculum.
State Needs
The Veterinary Medical Technology Program will meet local, state, regional, and national educational and cultural needs. A significant veterinary medical technologist shortage exists in private veterinary practice, biomedical research facilities, institutional practice, medical schools, the pharmaceutical industry, and the military and veterinary related industries. Graduates will have the opportunity to enter diverse fields of employment.

The U.S. Department of Labor, Bureau of Labor Statistics predicts a 41% increase, from 71,000 to 100,000, in the number of veterinary medical technology positions from the year 2006 to 2016. In 2007 there were 271 graduates from four-year colleges and 2,910 graduates from two-year colleges. The greatest potential for enhanced employment is for the four-year graduates. See appendix 3.

Although no scientific study has been done to document the need for additional veterinary medical technologists in Mississippi, the proposed program has received very strong verbal support from the leadership and members of the Mississippi Veterinary Medical Association.

The addition of the Veterinary Medical Technology Program will allow the MSU-CVM to more fully utilize the facilities of the College. The faculty understand the need for more veterinary medical technologists in the profession and will have a vested interest in the program, students and graduates. The College has the support of the Mississippi Veterinary Medical Association’s Liaison Committee to the College.

This program will not duplicate any program in any of the four-year private or public institutions in Mississippi. An Associate’s Degree program is offered by Hinds Community College in cooperation with MSU-CVM. The first year of the program is conducted on campus at Hinds Community College and the second year (clinical training) is conducted in the veterinary teaching hospital of MSU-CVM. With the implementation of the proposed program by MSU-CVM, Hinds Community College will assume the responsibility of the second year of the Associate’s Degree program.

The MSU-CVM will seek applications to the junior year of the Veterinary Medical Technology Program from all community/junior colleges and senior colleges/universities in Mississippi and beyond. This is feasible due to the fact that the prerequisite courses for application to the junior year may be completed at any of these educational institutions. This will create the opportunity for increased diversity within the student body.

Employment opportunities as well as potential income of the graduates of the Veterinary Medical Technology Program will be greatly enhanced over the graduates of the associate degree programs. Graduates who are employed in private veterinary practices
will enhance the productivity of the practices and have a positive impact on the financial success of the practices. Graduates will have a similar positive impact on the research institutions and industries that employ them.

**Program Potential**

Admission to the junior and senior years of the Veterinary Medical Technology Program will be competitive and a limited number of students will be admitted. An assumption is made that there will be undergraduate students who desire to enroll in the program, who will have completed the first two years of the curriculum and who will apply for admission to the junior year of the curriculum fall 2010. It is also assumed that some of these students will be students who were unsuccessful in their applications to the College of Veterinary Medicine's DVM program and who still desire a career in the veterinary profession. This program will provide opportunities to students which are not available at the present time.

The following is an estimate of the cumulative head count for the first six years of the program.

<table>
<thead>
<tr>
<th>Year</th>
<th>Freshmen</th>
<th>Sophomores</th>
<th>Juniors</th>
<th>Seniors</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>30</td>
<td>30</td>
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<td>2010</td>
<td>35</td>
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<td>2011</td>
<td>45</td>
<td>30</td>
<td>24</td>
<td>24</td>
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<tr>
<td>2012</td>
<td>50</td>
<td>40</td>
<td>24</td>
<td>24</td>
</tr>
<tr>
<td>2013</td>
<td>55</td>
<td>50</td>
<td>36</td>
<td>24</td>
</tr>
<tr>
<td>2014</td>
<td>60</td>
<td>55</td>
<td>36</td>
<td>36</td>
</tr>
</tbody>
</table>

It is anticipated that up to 60% of the graduates might stay in Mississippi. Recruiters for biomedical research positions outside Mississippi will have a significant influence on MSU-CVM’s graduates. Approximately 25% might stay in the Southeast and 15% might be placed in other locations in the United States due to this and other influences.

It is anticipated that starting salaries will range from $15 to $24 per hour. As in most other career fields, a willingness to be mobile is a significant factor in starting salaries. A similar range of salaries will exist in Mississippi, the Southeast and the United States with the higher salaries being available in the larger biomedical research institutions.

**Resources**

Current library holdings at the CVM branch of the Mitchell Memorial Library are a strength. The CVM library subscribes to over 125 current print journals and maintains approximately 13,000 bound periodicals. There are no perceived weaknesses of the library at this time. The MSU-CVM is fully accredited through the American Veterinary Medical Association Council on Education and the status of the library is an integral part of the accreditation standards. The college adds new volumes to the library yearly. The administrator of the program, along with the CVM librarian, will be responsible for monitoring new additions to the library.
As of July 2006, the libraries at MSU (including CVM) had access to 117 databases. In January 2007, via a newly formed consortium through the University's Mitchell Memorial Library, the university community, including CVM, gained access to an additional 1500 e-journals.

Projected expenses and income for the first six years are attached as appendix 4.

Existing facilities, with some rearrangement for classroom space, are adequate for the proposed 24 students in each of the junior and senior years. In order to increase the class size to 36 students, additional space will be needed.

Grants will be pursued to facilitate continued enhancement of the program.

Internal Assessment
Evaluation of the program and its effectiveness will be carried out through the following methods:

- Course and instructor evaluations by students,
- Evaluations of students’ performance by faculty and professional staff during classroom, laboratory, and clinical rotation experiences,
- Certification exam success,
- Exit surveys,
- Employment statistics,
- Starting salaries and
- Employers’ evaluations of graduates.

Admission and retention rates will be monitored by the program director.

Placement of graduates will be monitored and facilitated by the office of the program director.

Program outcome assessments will be the responsibility of the program director. A heavy emphasis will be placed on employers of the graduates of the program. A vital aspect of the information gleaned from outcomes assessments will be the perceived strengths and weaknesses of the graduates.

Changes in job market need/demand will be monitored by the program director. A significant part of this will be the establishment of a positions database that will be available to the senior students as they search for desirable positions.

Graduate surveys will be the responsibility of the program director. Surveys will be conducted one, three and five years after graduation.
New Degree Program Proposal

Veterinary Medical Technology
Bachelor’s of Science
Degree Program

Appendix 1
Proposed 24-Character Course
Abbreviations
# Veterinary Medical Technology
## Proposal for a Four-Year Bachelor of Science Degree Program
### Proposed 24-Character Course Abbreviations

<table>
<thead>
<tr>
<th>Dept</th>
<th>Course Number</th>
<th>Course Title</th>
<th>Catalog Description</th>
<th>Pre</th>
<th>Credit Hrs</th>
<th>Proposed Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN</td>
<td>1103</td>
<td>English Composition I</td>
<td>En Composition I</td>
<td></td>
<td>3</td>
<td>(Prerequisite: A score of 19 or above on the English section of the ACT or EN 1003). Three hours lecture. A study of logical and theoretical principals and organizational strategies that contribute to effective writing.</td>
</tr>
<tr>
<td>MA</td>
<td>1313</td>
<td>College Algebra</td>
<td>College Algebra</td>
<td></td>
<td>3</td>
<td>Three hours lecture. Review of fundamentals; linear and quadratic equations; inequalities; functions; simultaneous equations; topics in the theory of equations.</td>
</tr>
<tr>
<td>BIO</td>
<td>1134</td>
<td>Biological Science I</td>
<td>Biological Science I</td>
<td></td>
<td>4</td>
<td>Principles of Biology including nature of science, chemistry of life, cell structure &amp; division, cellular respiration, photosynthesis, Mendelian, chromosomal &amp; molecular genetics, evolution, and ecology.</td>
</tr>
<tr>
<td></td>
<td>1113</td>
<td>English Composition II</td>
<td>En Composition II</td>
<td></td>
<td>3</td>
<td>Prerequisite: EN 1103, 1163, or 1183). Three hours of lecture. An expanded study of an practice in stylistics, logic, and research as contributions to analytical writing.</td>
</tr>
<tr>
<td>MA</td>
<td>1323</td>
<td>Trigonometry</td>
<td>Trigonometry</td>
<td></td>
<td>3</td>
<td>Three hours lecture. The trigonometric functions: identities; trigonometric equations applications.</td>
</tr>
<tr>
<td>BIO</td>
<td>1144</td>
<td>Biological Science II</td>
<td>Biological Science II</td>
<td></td>
<td>4</td>
<td>Three hours lecture. Form and function of organisms including bodyplans and phylogeny, human evolution, plant anatomy and physiology, animal anatomy and physiology, reproduction, development, and animal behavior.</td>
</tr>
<tr>
<td>BIO</td>
<td>3304</td>
<td>Microbiology</td>
<td>General Microbiology</td>
<td></td>
<td>4</td>
<td>Three hours lecture. The psychological processes and adjustments necessary in preparing, organizing, wording, and delivering effective speeches.</td>
</tr>
<tr>
<td>CO</td>
<td>1003</td>
<td>Fund of Public Speaking</td>
<td>Fund of Public Speak</td>
<td></td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
### Proposed 24-Character Course Abbreviations

<table>
<thead>
<tr>
<th>Dept</th>
<th>Proposed Course Number</th>
<th>Proposed Course Title</th>
<th>Proposed Course Catalog Description</th>
<th>Proposed Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH</td>
<td>1043</td>
<td>Survey of Chemistry I</td>
<td>Survey of Chem I 3</td>
<td>Three hours lecture. The nature of chemistry and its applications. Designed for the student that will not take upper division chemistry courses. CH 1043 will satisfy chemistry prerequisites for CH 1213.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Social/Behavioral Science</td>
<td>3</td>
<td>Three hours lecture. The nature of chemistry and its applications. Designed for the student that will not take upper division chemistry courses.</td>
</tr>
<tr>
<td>CH</td>
<td>1053</td>
<td>Survey of Chemistry II</td>
<td>Survey of Chem II 3</td>
<td>Three hours lecture. The nature of chemistry and its applications. Designed for the student that will not take upper division chemistry courses.</td>
</tr>
<tr>
<td>CH</td>
<td>1051</td>
<td>Experimental Chemistry</td>
<td>Experimental Chem 1</td>
<td>CVM 2101. Veterinary Technology Medical Terminology. (1) One hour lecture. Veterinary medical terminology, focusing on fundamental recognition, interpretation and usage of medical terms.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Social/Behavioral Science</td>
<td>3</td>
<td>CVM 3012. Small Animal Diseases and Management. (2) (Prerequisite: Admission to the junior year of the Veterinary Medical Technology Program). Two hours lecture. Pathophysiology, transmission, diagnostic process, clinical management and prevention of canine and feline diseases.</td>
</tr>
<tr>
<td>CVM</td>
<td>2101</td>
<td>Veterinary Technology Medical Terminology</td>
<td>Vet Tech Med Vocab 1</td>
<td>CVM 3021. Small Animal Technical Skills &amp; Nursing Care. (1) (Prerequisite: Admission to the junior year of the Veterinary Medical Technology Program). Two hours laboratory. Principles of restraint, physical examination, medical management techniques, and behavior of common companion animals. Recognition of common canine and feline breeds.</td>
</tr>
<tr>
<td>CVM</td>
<td>3012</td>
<td>Small Animal Diseases and Management</td>
<td>Sm Anim Diseases &amp; Mgt 2</td>
<td>CVM 3022. Food Animal Diseases and Management. (2) (Prerequisite: Admission to the junior year of the Veterinary Medical Technology Program). Two hours lecture. Diseases, husbandry, preventative health care, epidemiology, public health and client education for the food animal species.</td>
</tr>
<tr>
<td>CVM</td>
<td>3021</td>
<td>Small Animal Technical Skills &amp; Nursing Care</td>
<td>Sm Anim Tech Skls &amp; Nurs 1</td>
<td></td>
</tr>
<tr>
<td>CVM</td>
<td>3032</td>
<td>Food Animal Diseases and Management</td>
<td>Fd Anim Diseases &amp; Mgt 2</td>
<td></td>
</tr>
</tbody>
</table>
### Proposed 24-Character Course Abbreviations

<table>
<thead>
<tr>
<th>Dept</th>
<th>Proposed Course Number</th>
<th>Proposed Course Title</th>
<th>Proposed Course Catalog Description</th>
<th>Proposed Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CVM</td>
<td>3031</td>
<td>Food Animal Technical Skills &amp; Nursing Care</td>
<td>Fd Anim Tech Skls &amp; Nurs 1</td>
<td>CVM 3031. Food Animal Technical Skills &amp; Nursing Care. (1) (Prerequisite: Admission to the junior year of the Veterinary Medical Technology Program). Two hours laboratory. Fundamentals of handling of the food animal species. Breed identification, specimen collection, physical exam, medication administration and other nursing care procedures relevant to the species.</td>
</tr>
<tr>
<td>CVM</td>
<td>3042</td>
<td>Equine Diseases and Management</td>
<td>Equine Diseases &amp; Mgt 2</td>
<td>CVM 3042. Equine Diseases and Management. (2) (Prerequisite: Admission to the junior year of the Veterinary Medical Technology Program). Two hours lecture. Diseases, husbandry, preventative health care and client education for the equine species.</td>
</tr>
<tr>
<td>CVM</td>
<td>3041</td>
<td>Equine Technical Skills &amp; Nursing Care</td>
<td>Equine Tech Skls &amp; Nurs 1</td>
<td>CVM 3041. Equine Technical Skills &amp; Nursing Care. (1) (Prerequisite: Admission to the junior year of the Veterinary Medical Technology Program). Two hours lecture/laboratory. Fundamentals of handling of the equine species. Breed identification, specimen collection, physical exam, medication administration and other nursing care procedures relevant to the species.</td>
</tr>
<tr>
<td>CVM</td>
<td>3051</td>
<td>Laboratory Animal Health Management</td>
<td>Lab Anim Health Mgt 1</td>
<td>CVM 3051. Laboratory Animal Health Management. (1) (Prerequisite: Admission to the junior year of the Veterinary Medical Technology Program). One hour lecture. Diseases, husbandry and preventative health care for the Laboratory animal species.</td>
</tr>
<tr>
<td>CVM</td>
<td>3061</td>
<td>Laboratory Animal Technical Skills</td>
<td>Lab Anim Tech Skills 1</td>
<td>CVM 3061. Laboratory Animal Technical Skills. (1) (Prerequisite: Admission to the junior year of the Veterinary Medical Technology Program). Two hours laboratory. Fundamentals of the handling of the laboratory animal species. Species and breed identification, specimen collection, physical exam, medication administration and other nursing care procedures.</td>
</tr>
<tr>
<td>CVM</td>
<td>3111</td>
<td>Parasitology for Veterinary Technologists</td>
<td>Parasitology: Vet Tech 1</td>
<td>CVM 3111. Parasitology for Veterinary Technologists. (1) (Prerequisite: Admission to the junior year of the Veterinary Medical Technology Program). Two hours lecture/laboratory. Parasites of veterinary and public health importance, including gross and microscopic morphology, transmission, and control.</td>
</tr>
</tbody>
</table>
### Proposed 24-Character Course Abbreviations

<table>
<thead>
<tr>
<th>Dept</th>
<th>Proposed Course Number</th>
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<th>Pro Cred Hrs</th>
<th>Proposed Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CVM</td>
<td>3121</td>
<td>Hematology for Veterinary Technologists</td>
<td>CVM 3121. Hematology for Veterinary Technologists. (1) (Prerequisite: Admission to the junior year of the Veterinary Medical Technology Program). One hour lecture. Structure and function of normal blood cells, cellular and humoral immunity, mechanisms of hemostasis, blood group serology, transfusion medicine and vaccinology.</td>
<td>1</td>
<td>nrows: 5, widths: [28, 28, 58, 7, 24]</td>
</tr>
<tr>
<td>CVM</td>
<td>3131</td>
<td>Clinical Pathology Laboratory Techniques I</td>
<td>CVM 3131. Clinical Pathology Laboratory Techniques I. (1) (Prerequisite: Admission to the junior year of the Veterinary Medical Technology Program). Two hours lecture/laboratory. Veterinary clinical pathology laboratory including diagnostic procedures in hematology, serology and ELISA methodology.</td>
<td>1</td>
<td>nrows: 5, widths: [28, 28, 58, 7, 24]</td>
</tr>
<tr>
<td>CVM</td>
<td>3141</td>
<td>Anatomical Pathology Laboratory Techniques</td>
<td>CVM 3141. Anatomical Pathology Laboratory Techniques. (1) (Prerequisite: Admission to the junior year of the Veterinary Medical Technology Program). Two hours lecture/laboratory. Veterinary anatomical pathology laboratory including necropsy, sample collection and submission, and disposal of animal tissues.</td>
<td>1</td>
<td>nrows: 5, widths: [28, 28, 58, 7, 24]</td>
</tr>
<tr>
<td>CVM</td>
<td>3202</td>
<td>Diagnostic Imaging for Veterinary Technologists</td>
<td>CVM 3202. Diagnostic Imaging for Veterinary Technologists. (2) (Prerequisite: Admission to the junior year of the Veterinary Medical Technology Program). One hour lecture and two hours laboratory. Diagnostic imaging (x-ray, CT, MRI, ultrasound), production of images, use of screens and grids, handling film, imaging quality, film processing, patient positioning, radiation safety.</td>
<td>2</td>
<td>nrows: 5, widths: [28, 28, 58, 7, 24]</td>
</tr>
<tr>
<td>CVM</td>
<td>3212</td>
<td>Anesthesiology for Veterinary Technologists</td>
<td>CVM 3212. Anesthesiology for Veterinary Technologists. (2) (Prerequisite: Admission to the junior year of the Veterinary Medical Technology Program). Two hours lecture. Pharmacologic action of preanaesthetic and anaesthetic drugs. Principles and techniques of induction, maintenance, monitoring, and recovery of the patient. Humane methods of euthanasia.</td>
<td>2</td>
<td>nrows: 5, widths: [28, 28, 58, 7, 24]</td>
</tr>
<tr>
<td>CVM</td>
<td>3222</td>
<td>Surgical Skills &amp; Nursing Care for Veterinary Technologists</td>
<td>CVM 3222. Surgical Skills &amp; Nursing Care for Veterinary Technologists. (2) (Prerequisite: Admission to the junior year of the Veterinary Medical Technology Program). Two hours lecture. Role of the veterinary technician as a member of the veterinary surgical team.</td>
<td>2</td>
<td>nrows: 5, widths: [28, 28, 58, 7, 24]</td>
</tr>
<tr>
<td>Dept</td>
<td>Proposed Course Number</td>
<td>Proposed Course Title</td>
<td>Proposed Course Catalog Description</td>
<td>Proposed Course Description</td>
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<tr>
<td>CVM</td>
<td>3221</td>
<td>Surgical Nursing &amp; Anesthetic Management Laboratory</td>
<td>Sur Nrs/Anes Mgt Lab: VT 1</td>
<td>CVM 3221. Surgical Nursing &amp; Anesthetic Management Laboratory. (1) (Prerequisite: Admission to the junior year of the Veterinary Medical Technology Program). Two hours laboratory. Principles and techniques in veterinary surgical nursing and anesthesia.</td>
<td></td>
</tr>
<tr>
<td>CVM</td>
<td>3232</td>
<td>Pharmacology &amp; Toxicology for Veterinary Technologists</td>
<td>Pharm/Tox: Vet Tech 2</td>
<td>CVM 3232. Pharmacology &amp; Toxicology for Veterinary Technologists. (2) (Prerequisite: Admission to the junior year of the Veterinary Medical Technology Program). Two hours lecture. Characteristics, classification and usage of veterinary pharmaceuticals. Introduction to and application of dosage and formulation calculations. Overview of common toxins, clinical signs and associated treatments.</td>
<td></td>
</tr>
<tr>
<td>CVM</td>
<td>3014</td>
<td>Anatomy &amp; Physiology</td>
<td>Anatomy &amp; Physiology 4</td>
<td>CVM 3014. Anatomy &amp; Physiology. (4) Three hours lecture and two hours laboratory. A survey of structure and function of animal body systems and a study of their interrelationships.</td>
<td></td>
</tr>
<tr>
<td>VS</td>
<td>3231</td>
<td>Clinical Pathology Laboratory Techniques II</td>
<td>Clin Path Lab II: VT 1</td>
<td>CVM 3231. Clinical Pathology Laboratory Techniques II. (1) (Prerequisite: Admission to the junior year of the Veterinary Medical Technology Program). Two hours lecture/laboratory. Comprehensive veterinary clinical pathology laboratory, including diagnostic procedures in urology, dermatology, cytology, and advanced methods in hematology.</td>
<td></td>
</tr>
<tr>
<td>CVM</td>
<td>3243</td>
<td>Basics of Practice Procedures and Management</td>
<td>Basic Pac Proc &amp; Mgt 3</td>
<td>CVM 3243. Basics of Practice Procedures and Management. (3) (Prerequisite: Admission to the junior year of the Veterinary Medical Technology Program). Three hours lecture. Veterinary practice economics, personnel management, professional and client communications, inventory control, and marketing techniques.</td>
<td></td>
</tr>
<tr>
<td>CVM</td>
<td>4003</td>
<td>Careers &amp; Professional Development for Veterinary Technologists</td>
<td>Careers/Pro Dev: VT 3</td>
<td>CVM 4003. Careers &amp; Professional Development for Veterinary Technologists. (3) (Prerequisite: Admission to the senior year of the Veterinary Medical Technology Program). Three hours lecture. Career options in veterinary technology. Discussion of professional, ethical and legal considerations. Professional development to include portfolio development, resume and cover-letter writing skills.</td>
<td></td>
</tr>
</tbody>
</table>

Appendix 1, Page 5 of 7
# Veterinary Medical Technology

**Proposal for a Four-Year Bachelor of Science Degree Program**

**Proposed 24-Character Course Abbreviations**

<table>
<thead>
<tr>
<th>Dept</th>
<th>Proposed Course Number</th>
<th>Proposed Course Title</th>
<th>Proposed Course Catalog Description</th>
<th>Pro Cred Hrs</th>
<th>Proposed Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CVM</td>
<td>4103</td>
<td>Equine Clinical Rotation</td>
<td>Equine Clinical Rotation</td>
<td>3</td>
<td>CVM 4103. Equine Clinical Rotation. (3) (Prerequisite: Admission to the senior year of the Veterinary Medical Technology Program). Three hours practicum. Supervised rotation through the Equine section of the Large Animal Clinic. Students participate in all technical aspects of patient diagnosis and care.</td>
</tr>
<tr>
<td>CVM</td>
<td>4113</td>
<td>Food Animal Clinical Rotation</td>
<td>Food Anim Clin Rotation</td>
<td>3</td>
<td>CVM 4113. Food Animal Clinical Rotation. (3) (Prerequisite: Admission to the senior year of the Veterinary Medical Technology Program). Three hours practicum. Supervised rotation through the Food Animal section, Large Animal Clinic. Students participate in all technical aspects of food animal diagnosis, herd health assessment and management.</td>
</tr>
<tr>
<td>CVM</td>
<td>4123</td>
<td>Large Animal Ambulatory Rotation</td>
<td>Large Anim Ambu Rota</td>
<td>3</td>
<td>CVM 4123. Large Animal Ambulatory Rotation, (3) (Prerequisite: Admission to the senior year of the Veterinary Medical Technology Program). Three hours practicum. Supervised rotation through the Ambulatory Service, Large Animal Clinic. Technical aspects of diagnosis, health assessment and management of individual and herds, flocks and bands.</td>
</tr>
<tr>
<td>CVM</td>
<td>4203</td>
<td>Small Animal Medical Rotation</td>
<td>Sml Anim Med Rotation</td>
<td>3</td>
<td>CVM 4203. Small Animal Medical Rotation. (3) (Prerequisite: Admission to the senior year of the Veterinary Medical Technology Program). Three hours practicum. Supervised rotation through the Medical Service of the Small Animal Clinic. Students participate in all technical aspects of patient and diagnosis and care.</td>
</tr>
<tr>
<td>CVM</td>
<td>4213</td>
<td>Small Animal Surgery Rotation</td>
<td>Sml Surgery Rotation</td>
<td>3</td>
<td>CVM 4213. Small Animal Surgery Rotation. (3) (Prerequisite: Admission to the senior year of the Veterinary Medical Technology Program). Three hours practicum. Supervised rotation through the small animal surgical service of the Small Animal Clinic. Students participate in all technical aspects of patient care and surgical preparation.</td>
</tr>
<tr>
<td>CVM</td>
<td>4223</td>
<td>Small Animal Primary Care Rotation</td>
<td>Sml Anim Pri Care Rota</td>
<td>3</td>
<td>CVM 4223. Small Animal Primary Care Rotation. (3) (Prerequisite: Admission to the senior year of the Veterinary Medical Technology Program). Three hours practicum. Supervised rotation through the Primary Care Service of the Small Animal Clinic. Students participate in all technical aspects of patient care and management.</td>
</tr>
<tr>
<td>Dept</td>
<td>Proposed Course Number</td>
<td>Proposed Course Title</td>
<td>Proposed Course Catalog Description</td>
<td>Proposed Course Description</td>
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</tr>
<tr>
<td>CVM</td>
<td>4303</td>
<td>Anesthesia Rotation</td>
<td>Anesthesia Rotation 3</td>
<td>CVM 4303. Anesthesia Rotation. (3) (Prerequisite: Admission to the senior year of the Veterinary Medical Technology Program). Three hours practicum. Supervised rotation through the Anesthesia Service of the Animal Health Center. Students participate in all technical aspects of preanesthetic evaluation, anesthetic maintenance and recovery.</td>
<td></td>
</tr>
<tr>
<td>CVM</td>
<td>4313</td>
<td>Diagnostic Imaging Rotation</td>
<td>Diag Imag Rotation 3</td>
<td>CVM 4313. Diagnostic Imaging Rotation. (3) (Prerequisite: Admission to the senior year of the Veterinary Medical Technology Program). Three hours practicum. Supervised rotation through the Radiology Service of the Animal Health Center. Students participate in all technical aspects of diagnostic imaging: radiography, ultrasound, CT, MRI, radiotherapy.</td>
<td></td>
</tr>
<tr>
<td>CVM</td>
<td>4323</td>
<td>Pharmacy Rotation</td>
<td>Pharmacy Rotation 3</td>
<td>CVM 4323. Pharmacy Rotation. (3) (Prerequisite: Admission to the senior year of the Veterinary Medical Technology Program). Three hours practicum. Supervised rotation through the Pharmacy of the Animal Health Center. Students participate in all technical aspects of pharmaceutical preparation, dispensing, inventory and management.</td>
<td></td>
</tr>
<tr>
<td>CVM</td>
<td>4333</td>
<td>Small Animal Emergency/Critical Care Rotation</td>
<td>SA Emer/Crit Care 3</td>
<td>CVM 4333. Small Animal Emergency/Critical Care Rotation. (3) (Prerequisite: Admission to the senior year of the Veterinary Medical Technology Program). Three hours practicum. Supervised rotation through the Small Animal Emergency/Critical Care unit. Students participate in all technical aspects of the patients.</td>
<td></td>
</tr>
<tr>
<td>CVM</td>
<td>4403</td>
<td>Laboratory Animal Rotation</td>
<td>Lab Anim Rota 3</td>
<td>CVM 4403. Laboratory Animal Rotation. (3) (Prerequisite: Admission to the senior year of the Veterinary Medical Technology Program). Three hours practicum. Supervised rotation through the Laboratory Animal Unit of the College of Veterinary Medicine. Students participate in all aspects of laboratory animal care and management.</td>
<td></td>
</tr>
<tr>
<td>CVM</td>
<td>4503</td>
<td>Diagnostic Laboratory Rotation</td>
<td>Diag Lab Rotation 3</td>
<td>CVM 4503. Diagnostic Laboratory Rotation. (3) (Prerequisite: Admission to the senior year of the Veterinary Medical Technology Program). Three hours practicum. Supervised rotation through the discipline areas of the State Diagnostic Laboratory.</td>
<td></td>
</tr>
</tbody>
</table>

Appendix 1, Page 7 of 7
New Degree Program Proposal

Veterinary Medical Technology
Bachelor’s of Science
Degree Program

Appendix 2
Faculty
Perry Mikell Davis, D.V.M.

Education

Auburn University, 1972, Doctor of Veterinary Medicine
Mississippi State University, 1969, Bachelor of Science (Animal Science)

Employment

July, 1999 – Present: Professor
Mississippi State University, College of Veterinary Medicine
Mississippi State, MS 39762

September, 1981 – June, 1999: Associate Professor
Mississippi State University, College of Veterinary Medicine
Mississippi State, MS 39762

July, 1972 – August, 1981: Owner
Bay Springs Animal Hospital
Bay Springs, MS 39422

June, 1972: Relief Veterinarian
Durr Animal Clinic
Clinton, MS 39056

Academic Positions

Animal Health Center
Jackson, MS 39204

February 1, 2008 – Present, Director of Special Education
Mississippi State University, College of Veterinary Medicine
Mississippi State, MS 39762

May, 2006 – January, 2008, Retired, Continued to work two days each week
Mississippi State University, College of Veterinary Medicine
Mississippi State, MS 39762

May, 2001 – May, 2006, Faculty, Department of Pathobiolgy & Population Medicine
Mississippi State University, College of Veterinary Medicine
Mississippi State, MS 39762
Academic Positions (continued)

November, 1997 – May 2001, Student Affairs Coordinator
Mississippi State University, College of Veterinary Medicine
Mississippi State, MS 39762

August, 1987—October, 1997, Student Planning & Development Coordinator
Mississippi State University, College of Veterinary Medicine
Mississippi State, MS 39762

August, 1988 – May, 1989, Administrative Intern
Office of the President
Mississippi State University

Mississippi State University, College Veterinary Medicine
Mississippi State, MS 39762

June, 1984 – May, 1986, Student Admission Counselor
Mississippi State University, College of Veterinary Medicine
Mississippi State, MS 39762

October, 1984 – April, 1985, Center for Restorative Medicine Director
Mississippi State University, College of Veterinary Medicine
Mississippi State, MS 39762

February, 1984 – September, 1984, Economic and Performance Medicine Coordinator
Animal Health Center
Mississippi State University, College of Veterinary Medicine
Mississippi State, MS 39762

June, 1983 – January, 1984, Service Administrator
Animal Health Center
Mississippi State University, College of Veterinary Medicine
Mississippi State, MS 39762

October, 1981 – May, 1983, Large Animal Coordinator
Animal Health Center
Mississippi State University, College of Veterinary Medicine
Mississippi State, MS 39762

Animal Health Center
Mississippi State University, College of Veterinary Medicine
Mississippi State, MS 39762
Professional Associations

American Veterinary Medical Association, 1972 – Present
Mississippi Veterinary Medical Association, 1972 – Present
American Association of Bovine Practitioners, 1972 – Present
Society For Theriogenology, 1973 – Present

State Licensure

Mississippi

Honors

Dean’s Pegasus Award, October 2, 1998
Presented by the College of Veterinary Medicine
For Outstanding Contribution to the College and University
Mississippi State University

Outstanding Professor, 1996
Presented by the Morter Board
Mississippi State University

Fellow, 1992 National Leadership Development Program
January 28 – March 14, 1992
Resources for the Future
National Center for Food and Agricultural Policy
Washington, DC, 1992

Publications

“Bovine Vaginitis”, Current Veterinary Therapy 2 Food Animal Practice,

Authorship

“What A Night”, Problem Base Learning simulated case, Primary focus: Pneumothorax

“Breezy Eyecatcher”, Problem Base Learning simulated case,
Primary focus: Nutritional Secondary Hyperthyroidism

“Stocker Calves”, Problem Base Learning simulated case,
Primary focus: Polioencephomalacia

“Doc, He’s Different from the Others”, Problem Base Learning simulated case,
Primary focus: Bovine Urolithiasis
Faculty

Authorship (continued)

“She Could Not Make It To The Barn”, Problem Base Learning simulated case, Primary focus: Perilla Mint Toxicosis

“Doc, I’ve Got A Big Time Problem”, Problem Base Learning simulated case, Primary foci: Anthrax (a reportable disease), Listeriosis, Public Health, Food Safety

Presentations

All College Day, “The Job Search”, College of Veterinary Medicine, Mississippi State University, October, 1998

Mississippi Academic Advisors Meeting, “Pre-Health Advising Strategies”, Mississippi State University, October, 1991

Southeastern Veterinary Student Conference, “How Important are Impressions to Your Success?”, Mississippi State University, October, 1998

American Association of Veterinary Medical Colleges Admissions Committee, American Veterinary Medical Association Convention, “MSU-CVM’s Early Entry Program: History, Current Status, and Outlook for the Future”, Seattle, WA, July, 1988

Sunbelt Veterinary Conference, “Evaluation of Veterinary Clinical Faculty”, University of Tennessee, Knoxville, TN, August, 1987

Society for Theriogenology, Annual Fall Conference, “Equine Abortion Knowledge Coupler: A Computer Application”, Austin, TX, September, 1987

Animal Health Technicians Meeting, Mississippi Veterinary Medical Association Winter Meeting, “Common Skin Disorders of Horses”, Mississippi State University, February, 1985

Mississippi Veterinary Medical Association, Summer Meeting, “The Use of Hyperthermia in Large Animal Practice”, Biloxi, MS, June, 1980

Central Mississippi Veterinary Medical Association, “The Veterinarian’s Contributions to Winter Grazing Programs”, Jackson, MS, October, 1979

Teaching

2004 Spring Semester     VS 3014 – Anatomy and Physiology, Course Leader
2003 Spring Semester     VS 3014 – Anatomy and Physiology, Course Leader
2002 Spring Semester     VS 3014 – Anatomy and Physiology, Course Leader

Appendix 2, Page 4 of 36
Faculty

*Teaching* (continued)

2001 Spring Semester  VS 3014 – Anatomy and Physiology, Course Leader

2000 Fall Semester  VS 3014 – Anatomy and Physiology, Course Leader  
CVM 5119 – The Interdisciplinary Study of Veterinary Medicine, Course Leader and Problem Base Learning Facilitator  
CVM 5813 – From Student to Associate Veterinarian – A Planned Approach (DIS)

2000 Summer Semester  CVM 4416 – Basic Concepts in Veterinary Medicine, Problem Base Learning Facilitator  
CVM 4426 – Basic Concepts in Veterinary Medicine, Problem Base Learning Facilitator

2000 Spring Semester  VS 2014 – Anatomy and Physiology, Course Leader  
CVM 5594 – Veterinary Practice Management, Course Leader  
CVM 5813 – From Student to Associate Veterinarian – A Planned Approach (DIS)

1999 Fall Semester  VS 2014 – Anatomy and Physiology, Course Leader  
CVM 5119 – The Interdisciplinary Study of Veterinary Medicine, Course Leader and Problem Base Learning Facilitator  
CVM 5813 – From Student to Associate Veterinarian – A Planned Approach (DIS)

1999 Summer Semester  CVM 4416 – Basic Concepts in Veterinary Medicine, Problem Base Learning Facilitator  
CVM 4426 – Basic Concepts in Veterinary Medicine, Problem Base Learning Facilitator

1999 Spring Semester  VS 2014 – Anatomy and Physiology, Course Leader  
CVM 5594 – Veterinary Practice Management, Course Leader  
CVM 5813 – From Student to Associate Veterinarian – A Planned Approach (DIS)
Faculty

Teaching (continued)

1998 Fall Semester  VS 2014 – Anatomy and Physiology, Course Leader
  CVM 4439 – Principles of Veterinary Anatomy and Physiology, Problem Base Learning Facilitator
  CVM 4449 – Principles of Veterinary Anatomy and Physiology, Course Leader and Problem Base Learning Facilitator
  CVM 5813 – From Student to Associate Veterinarian – A Planned Approach (DIS)

1998 Summer Semester  CVM 4416 – Basic Concepts in Veterinary Medicine, Problem Base Learning Facilitator
  CVM 4426 – From Student to Associate Veterinarian – A Planned Approach (DIS)

1997 Fall Semester  VS 2014 – Anatomy and Physiology, Course Leader
  CVM 4439 Principles of Veterinary Anatomy and Physiology, Course Leader and Problem Base Learning Facilitator
  CVM 5129 – Interdisciplinary Study of Veterinary Medicine, Problem Base Learning Facilitator
  CVM 5813 – From Student to Associate Veterinarian – A Planned Approach (DIS)

1997 Summer Semester  CVM 4416 – Basic Concepts in Veterinary Medicine, Problem Base Learning Facilitator
  Anatomy Laboratory Instructor
  CVM 4426 – Basic Concepts in Veterinary Medicine, Problem Base Learning Facilitator
  Anatomy Laboratory Instructor

1997 Spring Semester  VS 2014 – Anatomy and Physiology, Course Leader
  VS 1012 – Introduction to Veterinary Medical Careers, Course Leader
  CVM 5594 – Veterinary Practice Management, Course Leader

1996 Fall Semester  VS 2014 – Anatomy and Physiology, Course Leader
  CVM 5119 – Interdisciplinary Study of Veterinary Medicine, Problem Base Learning Facilitator
  CVM 5129 – Interdisciplinary Study of Veterinary Medicine, Course Leader and Problem Base Learning Facilitator
### Teaching (continued)

<table>
<thead>
<tr>
<th>Semester</th>
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| 1996 Summer Semester | CVM 4416 – Basic Concepts in Veterinary Medicine, Problem Base Learning Facilitator  
|                  | CVM 4426 – Basic Concepts in Veterinary Medicine, Problem Base Learning Facilitator  |
| 1996 Spring Semester | VS 1012 – Introduction to Veterinary Medical Careers, Course Leader  
|                  | CVM 5594 – Veterinary Practice Management, Course Leader  |
| 1995 Fall Semester | VS 2014 – Anatomy and Physiology, Course Leader  
|                  | CVM 5119 – Interdisciplinary Study of Veterinary Medicine, Problem Base Learning Facilitator  
|                  | CVM 5129 – Interdisciplinary Study of Veterinary Medicine, Course Leader and Problem Base Learning Facilitator  |
| 1995 Summer Semester | CVM 4416 - Basic Concepts in Veterinary Medicine, Problem Base Learning Facilitator  
|                  | CVM 4426 - Basic Concepts in Veterinary Medicine, Problem Base Learning Facilitator  |
| 1995 Spring Semester | VS 1012 - Introduction to Veterinary Medical Careers, Course Leader  
|                  | VS 2014 - Anatomy and Physiology, Course Leader  
|                  | CVM 5594 - Veterinary Practice Management, Course Leader  |
| 1994 Fall Semester | VS 2014 - Anatomy and Physiology, Course Leader  
|                  | CVM 3309 – Interdisciplinary Study of Veterinary Medicine, Problem Base Learning Facilitator  
|                  | CVM 3319 – Interdisciplinary Study of Veterinary Medicine, Course Leader and Problem Base Learning Facilitator  |
| 1994 Summer Semester | CVM 3206 – Basic Concepts in Veterinary Medicine, Problem Base Learning Facilitator  
|                  | CVM 3216 – Basic Concepts in Veterinary Medicine, Problem Base Learning Facilitator  |
Teaching (continued)

1994 Spring Semester
VS 1012 – Introduction to Veterinary Medical Careers, Course Leader
VS 2014 – Anatomy and Physiology, Course Leader
CVM 4185 – Food Animal Health & Disease, Course Leader
CVM 5594 – Veterinary Practice Management, Course Leader

1993 Fall Semester
VS 2014 – Anatomy and Physiology, Course Leader
CVM 3309 – Principles of Veterinary Anatomy and Physiology, Problem Base Learning Facilitator
CVM 3319 – Principles of Veterinary Anatomy and Physiology, Problem Base Learning Facilitator

1993 Summer Semester
CVM 4416 – Basic Concepts in Veterinary Medicine, Course Leader, Problem Base Learning Facilitator
CVM 4426 – Basic Concepts in Veterinary Medicine, Course Leader, Problem Base Learning Facilitator

1993 Spring Semester
VS 1012 – Introduction to Veterinary Medical Careers, Course Leader
CVM 4185 – Anatomy and Physiology, Course Leader

1992 Fall Semester
VS 2014 – Anatomy and Physiology, Course Leader
CVM 5594 – Veterinary Practice Management, Course Leader
CVM 3033 – Fundamentals of Clinical Science I

1992 Spring Semester
VS 1012 – Introduction to Veterinary Medical Careers, Course Leader
CVM 4185 – Food Animal Health & Disease, Course Leader

1991 Fall Semester
VS 2014 – Anatomy and Physiology, Course Leader
CVM 5594 – Veterinary Practice Management, Course Leader

1991 Spring Semester
VS 1012 – Introduction to Veterinary Medical Careers, Course Leader

1990 Fall Semester
CVM 5594 – Veterinary Practice Management, Course Leader

1990 Spring Semester
VS 1012 – Introduction to Veterinary Medical Careers, Course Leader
<table>
<thead>
<tr>
<th>Year</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>1989 Fall</td>
<td>VS 2014 – Anatomy and Physiology, Course Leader</td>
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<tr>
<td>1989 Spring</td>
<td>VS 1012 – Introduction to Veterinary Medical Careers,</td>
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<td>Course Leader</td>
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<tr>
<td>1988 Fall</td>
<td>VS 2014 – Anatomy and Physiology, Course Leader</td>
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<tr>
<td>1988 Spring</td>
<td>VS 2014 – Anatomy and Physiology, Course Leader</td>
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<tr>
<td>1987 Fall</td>
<td>VS 2014 – Anatomy and Physiology, Course Leader</td>
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<tr>
<td>1987 Spring</td>
<td>VS 2014 – Anatomy and Physiology, Course Leader</td>
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<td>1986 Fall</td>
<td>VS 2014 – Anatomy and Physiology, Course Leader</td>
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<tr>
<td>1986 Spring</td>
<td>VS 2014 – Anatomy and Physiology, Course Leader</td>
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<tr>
<td>1985 Fall</td>
<td>VS 2014 – Anatomy and Physiology, Course Leader</td>
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<tr>
<td></td>
<td>CVM 4154 – Urinary System (Large Animal)</td>
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<tr>
<td></td>
<td>CVM 4124 – Integument System (Large Animal)</td>
</tr>
<tr>
<td></td>
<td>CVM 4114 – Hemic-Lymphatic System (Large Animal)</td>
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<tr>
<td>1985 Spring</td>
<td>VS 2014 – Anatomy and Physiology, Course Leader</td>
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<tr>
<td></td>
<td>CVM 3032 – Fundamentals of Clinical Science II, Course</td>
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<tr>
<td></td>
<td>Leader</td>
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<tr>
<td></td>
<td>CVM 4322 – Population Medicine II, 1985, Course Leader</td>
</tr>
<tr>
<td>1984 Fall</td>
<td>VS 2014 – Anatomy and Physiology, Course Leader</td>
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<tr>
<td>1984 Spring</td>
<td>VS 2014 – Anatomy and Physiology, Course Leader</td>
</tr>
<tr>
<td></td>
<td>CVM 3032 – Fundamentals of Clinical Science II, Course</td>
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<tr>
<td></td>
<td>Leader</td>
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<tr>
<td></td>
<td>CVM 4235 – Reproductive System, Course Leader</td>
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<tr>
<td>1983 Fall</td>
<td>VS 2014 – Anatomy and Physiology, Course Leader</td>
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<tr>
<td>1983 Spring</td>
<td>VS 2014 – Anatomy and Physiology, Course Leader</td>
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<tr>
<td>1982 Fall</td>
<td>VS 2014 – Anatomy and Physiology, Course Leader</td>
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<tr>
<td>1982 Spring</td>
<td>CVM 3032 – Fundamentals of Clinical Science II</td>
</tr>
</tbody>
</table>
Service

Student Affairs, College of Veterinary Medicine

Recruitment of Early Entry and Regular Entry Students
Admissions of Early Entry and Regular Entry Students
Advisement of Pre-Vet Students (co-advisor), Early Entry Students
Administration of Emergency Student Loans
Coordination of Student Awards and Scholarships
Coordination of the Career Opportunity Listing for Senior Students

College of Veterinary Medicine
Admissions Committee
  Chair, August, 1987 – May, 2002
  Member, May, 2002 – May, 2004
  Chair, May, 2004 - Present
Safety Committee, 2000
Search Committee, Dean, 1999
Search Committee, Academic Program Manager, 1998
Professional Standards Committee, 1998-2002
Contact Person for the AVMA Chemical Impairment Committee, 1994 – 2002
Honor Court Advisor, 1987 – 2004
Academic Board, 1985 – 2002
Search Committee, Anatomist, 1997
Strategic Planning Committees (Financial Base, Development, Career Options, Academic Financial Base, and Applicant Pool), 1989
College Cabinet, 1984 – 1987

Mississippi State University
Agri-Center Advisory Committee, September 23, 1998 – 2002
Scholarship Committee, July 1, 1998 – 2002
Undergraduate Council, July 1, 1989 – June 30, 2002
  Planning Subcommittee
Discovery: MSU Committee, July 1, 1989 -1986
Scholarship Committee, July 1, 1988 – 1986
College Alumni Council, February 26, 1988 – 1987
Scholarship Recognition Committee, July 1, 1989 – June 30, 1990
Athletic Council, July 1, 1987 – 1985
Fall and Spring Visitors’ Weekend Committee,
  July 1, 1988 – June 30, 1989
Judicial Appeals Board, July 1, 1986 – June 30, 1989
Search Committees
  Head Coach, Women’s Basketball, May, 1989
  Head Coach, Track and Field, September – October, 1988
  Director, Noncredit Continuing Education, August, 1983

Appendix 2, Page 10 of 36
Faculty

Service (continued)

Professional Organizations

American Veterinary Medical Association
  Council on Education,
  Representing Basic or Preclinical Science,
  July, 1993 – June, 1999

Southern Veterinary Federation
  Board of Directors, 1991 – 1994

Mississippi Veterinary Medical Association
  President, July 1990 – June, 1991
  Secretary-Treasurer, July, 1985 – June, 1988
  Executive Board, July, 1980 – June, 1982

American Association of Veterinary Clinicians
  Secretary-Treasurer, July, 1987 – 1990

Central Mississippi Veterinary Medical Association
  President, 1978 – 1980
  Secretary-Treasurer, 1976 – 1978

Civic Organizations

Starkville Rotary Club;
  Vice President & President Elect, 1990 – 91;
  Executive Board, 1989 – 90;
  Chairman, Scholarship Committee, 1996 – Present;
  Chairman, Program Committee, 1990 – 91;
  Chairman, Club Service Committee, 1988 – 89;
  Member, September, 1981 – Present

Starkville Area Chamber of Commerce
  Recreation Committee, 1989 – 1990,
  Agricultural Committee, 1987 – 1990

United Way Fund Drive,
  Starkville – Oktibbeha County, 1988, 1989

Leadership Starkville, Starkville Area Chamber of Commerce,
  Selected to participate, October, 1986

Rotary Club, Bay Springs, MS June, 1973 – August, 1981
Andrew Mackin B.Sc., B.V.M.S., M.V.S., D.V.Sc.
Diplomate A.C.V.I.M. (Small Animal Internal Medicine)
Associate Professor
Department of Clinical Sciences
Service Chief, Small Animal Medicine
Huge G. Ward Endowed Chair of Small Animal Veterinary Medicine

Education:
D.V.Sc., University of Guelph, Veterinary Clinical Studies, 1994
M.V.S., University of Melbourne, Veterinary Clinical Science, 1989
B.V.M.S., Murdoch University, Veterinary Medicine, 1983
B.Sc., Murdoch University, Veterinary Biology, 1981
Fellow – ACVSc (Australian College of Veterinary Scientists – Canine Medicine)

Specialty Certification:
Diplomate – ACVIM (American College of Veterinary Internal Medicine)

Workload:
2002 – present Mississippi State University
College of Veterinary Medicine
Associate Professor
Small Animal Medicine

2002 – present Mississippi State University
College of Veterinary Medicine
Dr. Hugh Ward Chair
Small Animal Medicine

4 lectures
Dermatology, Sophomore Class Small Animal Med & Surg II
1 lecture
8 lectures
1 lecture
7 lectures
Transfusion, Anemia, Hemostasis Cases and Blood Gas/Electrolyte Cases,
Sophomore Class Clinical Pathology Course; 4 lectures
Diabetes, Transfusion, Toxoplasma, Fever, Feline Elective
4 lectures
Oncology, Clinical Oncology Elective; 8 lectures

2008: Challenging Internal Medicine Cases, MSU SACVIM; 1 lecture
Faculty

Andrew Mackin (continued)

1999 on: Associate Member, MSU Graduate Faculty  
Head, Intern/Resident committee

Publications

Faculty

Lanny Pace, D.V.M., Ph.D., A.C.V.P.
Professor
Department of Pathobiology and Population Medicine
Executive Director, Mississippi Veterinary Research & Diagnostic Laboratory System

Education
B.S. – Mississippi State University
D.V.M. – Mississippi State University
Ph.D. – Louisiana State University

Specialty Certification:
Diplomate – American College of Veterinary Pathologists

Current workload for typical semester, including specific courses usually taught; explain how workload will be impacted with the addition of proposed program.

Current workload – Executive Director with administrative oversight of 4 laboratories in the lab system. Day to Day director of MVRDL in Pearl.

No Courses taught.

Workload should not be impacted by proposed program, unless students are assigned rotations through the diagnostic laboratories in Pearl. I will then assist with coordinating the rotations.

Scholarship and publication record for the past five years.

Grant and contracts:

<table>
<thead>
<tr>
<th>Grant Description</th>
<th>PI/Co-I</th>
<th>Amount</th>
<th>Percentage</th>
<th>Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chronic Wasting Disease</td>
<td>PI, MS Board of Animal Health</td>
<td>$35,000</td>
<td>5%</td>
<td>2002-2007</td>
</tr>
<tr>
<td>Animal Health Monitoring</td>
<td>PI, MS Board of Animal Health</td>
<td>$22,500</td>
<td>5%</td>
<td>2002-2003</td>
</tr>
<tr>
<td>West Nile Virus Surveillance</td>
<td>PI, MS State Dept. of Health</td>
<td>$277,285</td>
<td>5%</td>
<td>2002-2004</td>
</tr>
<tr>
<td>Johne’s Disease Monitoring</td>
<td>PI, MS Board of Animal Health</td>
<td>$19,250</td>
<td>5%</td>
<td>2002-2003</td>
</tr>
<tr>
<td>Animal Health Monitoring</td>
<td>PI, MS Board of Animal Health</td>
<td>$22,500</td>
<td>5%</td>
<td>2003-2004</td>
</tr>
<tr>
<td>Johne’s Disease Monitoring</td>
<td>PI, MS Board of Animal Health</td>
<td>$22,000</td>
<td>5%</td>
<td>2003-2004</td>
</tr>
<tr>
<td>Tissue Digestion System</td>
<td>PI, USDA</td>
<td>$176,020</td>
<td>5%</td>
<td>2004-2005</td>
</tr>
<tr>
<td>Johne’s Disease Monitoring</td>
<td>PI, MS Board of Animal Health</td>
<td>$22,000</td>
<td>5%</td>
<td>2004-2005</td>
</tr>
<tr>
<td>Animal Health Monitoring</td>
<td>PI, MS Board of Animal Health</td>
<td>$22,500</td>
<td>5%</td>
<td>2004-2005</td>
</tr>
<tr>
<td>MS Johne’s Disease Demo Herd Project</td>
<td>Co-I, MBAH</td>
<td>$38,000</td>
<td>5%</td>
<td>2004-2005</td>
</tr>
</tbody>
</table>
## Publications:


Faculty

Dr. Lanny Pace (continued)


Presentations:


Wilson F, Stayer P, Pace L, Muhammad F: Histological Demonstration of a Pathological or Non-Artifact Basis for Epiphysis Separation Induced During Coxofemoral Disarticulation in Clinically Normal Poultry. 48th Annual Meeting of the American Association of Veterinary Laboratory Diagnosticians, Hershey, PA, November 3-8, 2005.

Zhang S, Pace, L: Infection of a Goat Herd with Mycoplasma mycoides subsp. Mycoides LC type. 48th Annual Meeting of the American Association of Veterinary Laboratory Diagnosticians, Hershey, PA, November 3-8, 2005.
Dr. Lanny Pace (continued)

--Professional activity

Current appointment:
2000-present  Executive Director, Mississippi Veterinary Diagnostic and Research Laboratory System, Pearl, MS
2000-present  Professor, College of Veterinary Medicine, Mississippi State University, Mississippi State, MS

PROFESSIONAL ORGANIZATIONS AND SERVICE:

American Veterinary Medical Association
   Member, Council on Public Health & Regulatory Veterinary Medicine, 07/2005 – 07/2009
Mississippi Veterinary Medical Association
American College of Veterinary Pathologists
   Committee member – Government Relations
American Association of Veterinary Laboratory Diagnosticians
   Member of House of Delegates
   Committee member – Laboratory Directors, Pathology, Laboratory safety, Enteric diseases, Government Relations, Informatics & NAHLN IT, Quality Assurance
U.S. Animal Health Association
   Committee member – Aquaculture, Diagnostic Laboratory & Veterinary Workforce Expansion, Animal Emergency Management, Emerging Diseases
National Institute for Animal Agriculture
   Committee Chair – Emerging Diseases
   Committee member – Emerging Diseases, Animal Health Emergency Management, Animal Health & International Trade, Cattle Health
National Animal Health Laboratory Network
   Member – Steering Committee, 07/2008 – 06/2011
C. L. Davis Foundation for the Advancement of Veterinary & Comparative Pathology
   American Association of Swine Veterinarians
   Phi Zeta, Pi Chapter
   Gamma Sigma Delta, Honor Society of Agriculture

--Expected responsibilities in this program
None that have been assigned to me. I will assist in implementing any plans for rotations of students in the diagnostic laboratories. I could also provide guest lectures as needed and as my schedule permits.
Lucy H. Senter
University Veterinarian/Clinical Professor
Department of Clinical Sciences

Education
1991 – M.S. Laboratory Animal Medicine, University of Missouri
1988 – Laboratory Animal Medicine Residency, University of Missouri
1986 – Doctor of Veterinary Medicine, College of Veterinary Medicine
    Mississippi State University
1976 – M.S. Physiology, Mississippi State University
1973 – B.A. Biology, Agnes Scott College

Board Certification
1990 – American College of Laboratory Animal Medicine, Diplomate

2005-present Mississippi State University, Director, Laboratory Animal Resources
    and University Veterinarian
    Direct the University’s regulated animal care and use programs; supervise animal care staff; provide direct and delegated oversight of clinical veterinary care; provide assistance in maintaining compliance with regulatory and accreditation standards; participate in protocol review; train animal care and research/teaching staff and faculty; provide oversight of animal procurement; participate in IACUC meetings and review.

- Classroom lectures for Special Species, Epidemiology, Anatomy and Physiology, Summer Research Experience, Food Science, ALAT, and LAT certification preparation, and veterinary technology.
- Assessed and revised per diem schedule for MSU animal care
- Assessed, developed and implemented facility improvement plan for CVM research animal facilities
- Led the processes leading to renewed AAALAC accreditation for the College of Veterinary Medicine and the College of Arts and Sciences (2006).
- Submitted documentation and received renewal of the MSU PHS Assurance Statement, 2006
- Re-organized LARAC to improve quality of animal care. Developed new positions (team leader).
- Assumed complete staff responsibility for animal care at Harned Hall (College of Arts and Sciences).
- Developed new CVM policy regarding animal donations
- Member, MSU Biosafety Committee
- Member, MSU Institutional Animal Care and Use Committee
Lucy H. Senter (continued)

Publications


Robert L. Linford, D.V.M., Ph.D., A.C.V.S.
Professor
Department of Clinical Sciences

EDUCATION:

- Diplomate, American College of Veterinary Surgeons 1997
- Ph.D., Comparative Pathology, School of Veterinary Medicine, University of California, Davis 1985-1987
- Postgraduate Researcher & Resident, Equine Radiology, School of Veterinary Medicine, University of California, Davis 1981-1985
- Residency, Equine Surgery, School of Veterinary Medicine, University of California, Davis 1979-1981
- Internship, Equine Surgery, School of Veterinary Medicine, University of California, Davis 1978-1979
- Doctor of Veterinary Medicine, College of Veterinary Medicine, Colorado State University 1974-1978
- Bachelor of Science, Montana State University 1971-1974

PROFESSIONAL ACTIVITIES:

- 2006-Present: Professor & Chief, Equine Medicine and Surgery, College of Veterinary Medicine, Mississippi State University

PUBLICATIONS: peer reviewed


PUBLICATIONS: book chapter contributions


INSTRUCTIONAL RESPONSIBILITIES:

- 2004-2008: Course Leader/Co-Leader - Equine Medicine & Surgery CVM 5142 and CVM 5153. Developed, scheduled, and presented 20 hours lecture material and 38 hours laboratory instruction. Developed 19 laboratory teaching specimens, 7 new illustrations, an instructional DVD, and 11 teaching videos.
Faculty

   Senior clinician in charge of surgical receiving group consisting of 1 to 3-5 house officers, 5 to 9 veterinary students, and 2 technicians: 26 to 35 weeks/year.
   Senior clinician in charge of surgical procedures laboratories (40 hours/year).

1996-2008  Co-Instructor - Veterinary Dentistry Elective CVM 5362, later CVM 5672.
   Equine Dentistry

1996-2008  Co-Instructor – Directed Individual Studies
   Equine Medicine & Surgery.
   20 students.

1996-2008  Primary faculty advisor/faculty reviewer – Clinical Pathological Conference (Senior Seminar) CVM 5122, later CVM 5302.
   67 students
Robert E. Meyer, D.V.M., A.C.V.A.
Associate Professor
Department of Clinical Sciences

COLLEGE EDUCATION
College: Cornell University
Dates: 1981-1983
Degree: Certificate of Residency in Veterinary Anesthesiology

College: Cornell University
Dates: 1976-1980
Degree: Doctor of Veterinary Medicine

College: Iowa State University
Dates: 1974-1976
Degree: Enrolled in graduate program in Medical Entomology; withdrew to attend veterinary program at Cornell University; no degree awarded

College: State University of New York at Buffalo
Dates: 1969-1973
Degree: Bachelor of Arts in Biology

PROFESSIONAL EXPERIENCE
Associate Professor, Department of Clinical Sciences, College of Veterinary Medicine, Mississippi State University, Mississippi State, MS, August 2003 to present.

PUBLICATIONS

In Press

Refereed Publications


Robert E. Meyer (continued)


Contributions to Textbooks


Meyer RE, Morrow WEM. Physiology of Euthanasia. In: *Guidelines for Euthanasia of Non-Domestic Animals* (Charlotte Kirk Baer, ed); Yulee FL, Published by the American Association of Zoo Veterinarians (AAZV), 2006: (Ch.3, pages 6-8).


Web-based Publication

Ron McLaughlin, D.V.M., D.V.Sc., A.C.V.S.
Professor & Chief, Small Animal Surgery
Head, Department of Clinical Sciences

Education:
D.V.M. – University of Missouri – 1985
D.V.Sc. (Honors) – University of Guelph – 1991
Surgery Residency – Ontario Veterinary College, University of Guelph – 1991

Specialty Certification:
Diplomate – American College of Veterinary Surgeons

2006 – present
Head, Department of Clinical Sciences
College of Veterinary Medicine
Mississippi State University, MS

2006 – present
Professor and Chief, Small Animal Surgery
College of Veterinary Medicine
Mississippi State University, MS

Workload
Small Animal Surgery – Clinical Rotation (CVM 5256) – 2000 to present
Advanced Small Animal Surgery Rotation (CVM 5454) – 2000 to present
Advanced Small Animal Surgery Elective (CVM 5754) – 2001 to present
Small Animal Emergency Medicine and Critical Care (CVM 5316) – 2000 to present
Introduction to Veterinary Medical Careers (1 hr – Surgery) – 2001 to present

Publications:
(* First author = Graduate student/resident/house officer)

Journal Publications:

*Horstman CL, McLaughlin RM, Elder SH, Pool RR< Read RR, Boyle CR. Changes in rabbit articular cartilage following remote application of bipolar or monopolar radiofrequency energy and with or without Cosequin Therapy. Vet Comp Orthop Traumatol, Submitted Fed. 2008.


Appendix 2, Page 24 of 36
Faculty

Ron McLaughlin (continued)


*Demko J, Elder S, McLaughlin RM. Axial pull-out strength of 3.5 cortical and 4.0 cancellous bone screws placed in canine proximal tibias using manual and power tapping. VCOT Accepted, Sept 2007


Ron McLaughlin (continued)


Faculty

Sharon Fooshee Grace, M.S., M.Ag., D.V.M., A.B.V.P., A.C.V.I.M.
Clinical Professor
Department of Clinical Sciences

Education:
B.S. Agric. University of Missouri
Animal Husbandry
1978

M.Ag. Texas Tech University
Animal Science
1982

M.S. Mississippi State University
Animal Physiology
1982

D.V.M. Mississippi State University
College of Veterinary Medicine
1987

Internship Texas A & M University
College of Veterinary Medicine
Small Animal Medicine & Surgery
1987-1988

Residency Mississippi State University
College of Veterinary Medicine
Small Animal Internal Medicine
1989 - 1991

Diplomate – American Board of Veterinary Practitioners
Specialty: Companion Animal
Certified: 1993, Recertified 2002

Diplomate – American College of Veterinary Internal Medicine
Specialty: Small Animal Internal Medicine
Certified: 1994

Current Workload:
Clinical Professor
Mississippi State University
Department of Clinical Sciences

Associate Clinical Professor
Mississippi State University
Department of Clinical Sciences

Courses Led – Mississippi State University College of Veterinary Medicine
Course Leaders – 2007 – present – CVM 5302 – Professional Development IV (2 hr)
Course Leader – 2007 – present – VS 3014 – Anatomy and Physiology (4 hr)
Faculty

Sharon Fooshee Grace, M.S., M.Ag., D.V.M., A.B.V.P., A.C.V.I.M. (continued)

Books - Published.

Norsworthy GD, Crystal MA, Grace SK, Tilley LP. The feline patient: Essentials of Diagnosis and Treatment. 3rd edition. 2007. Blackwell Publications. (Also to be distributed overseas in Spanish, Japanese, Italian, and Portuguese)

Norsworthy GD, Crystal MA, Grace SK, Tilley LP. The feline patient: Essentials of Diagnosis and Treatment. 2nd ed. 2003; Williams and Wilkins, Media, PA. (Also distributed overseas in Spanish, Japanese, Italian)

Book Chapters.


Philadelphia: Lippincott Williams & Wilkins, 2002; 294-296.


Appendix 2, Page 28 of 36
Faculty


Sharon Fooshee Grace, M.S., M.Ag., D.V.M., A.B.V.P., A.C.V.I.M. (continued)

Refereed Journals.


Peer-Reviewed and Newsmagazine Journals.


Proceedings.

Grace, S. The Cat as an Animal Victim. Western States Veterinary Conference, Las Vegas, NV, Feb 2007
Grace, S. Cytauxzoonosis – An Emerging Disease of Cats in Mississippi. Western States Veterinary Conference, Las Vegas, NV, Feb 2007
Grace, S. Feline Histoplasmosis. Western States Veterinary Conference, Las Vegas, NV, February 2007
Grace, S. Emerging Feline Zoonoses. Western States Veterinary Conference, Las Vegas, NV, Feb 2007
Nelson PD, Bushby P, Grace S, Pepper, W. The Use of Oral Examinations to Assess

Student Communication, Problem-Solving, and Self-Directed Learning Skills in a PBL Curriculum; International Conference on Communication in Veterinary Medicine, Niagra Falls, Canada, June 13-16, 2004

PBL 2004 International Conference, June 13-19, Cancun, Mexico
Grace, S. Cruelty to Animals: Reflection of human inner struggle. Western States Veterinary Conference, Las Vegas, NV, February 2004
Stephen B. Pruett, B.D., Ph.D.
Department Head
Department of Basic Sciences

Education:
B.D., Microbiology, Northwestern State University of Louisiana – 1976

Ph.D., Immunology, LSU School of Medicine in Shreveport, Shreveport, LA. Dissertation: “Characterization of the Heterophile Transplantation Antigen System”. Mentor: Michael Wolcott, Ph.D. – 1980

Postdoctoral Training, Immunology, UAB Medical School, Birmingham, AL. Mentor: J. Claude Bennett, M.D. – 1980 – 1982

Sabbatical Leave, Immunotoxicology, Medical College of Virginia/Virginia Commonwealth University, Richmond, VA. Sponsor: Albert E. Munson, Ph.D. 1990 1991

Workload:

2007 – present
Professor and Head, Dept. of Basic Sciences
College of Veterinary Medicine
Mississippi State University
Mississippi State, MS 39762

Mostly administrative with one course and two funded research projects

Publications:


Stephen B. Pruett, (continued)


Stephen B. Pruett, (continued)


Faculty

**Stephen B. Pruett**, (continued)


Vernon Cory Langston, D.V.M., Ph.D., A.C.V.C.P.
Professor
Department of Clinical Sciences

Education:

September, 1977 - May, 1981. College of Veterinary Medicine, Mississippi State University. DVM degree. Quality Point Average 3.64/4.00.

September, 1974 - May, 1977. Mississippi State University. Acceptance to veterinary school occurred prior to completion of undergraduate degree requirements. Quality Point Average 3.71/4.00.

Specialty Certification & Licensure
Diplomate of the American College of Veterinary Clinical Pharmacology awarded in 1991 (by examination). Mississippi Veterinary License number 611

Professional Experience
July, 1987 – present Mississippi State University, College of Veterinary Medicine. Emphasis in Clinical Pharmacology. Duties include teaching, primary patient care, and research.
March, 2002 – present Professor of veterinary medicine

Teaching
Clinical Pharmacology:
CVM 5844 Clinical Pharmacology. Senior elective course in clinical pharmacology and therapeutics; format involves topic presentation, teaching rounds, and Evidence Based Veterinary Medicine student projects. College of Veterinary Medicine, Mississippi State University, 80 hours/year 1989-present.
Facility

**Vernon Cory Langston** (continued)

**Clinical Service and Teaching:**

Small Animal Primary Patient Care (formerly Community Practice) and Exotic Medicine; College of Veterinary Medicine, Mississippi State University, 4 months/year of primary patient care 1996-2003, 6 months/year 2004-present.

**Pharmacology:**

CVM 5122 & 5132 Anesthesiology & Pharmacology parts I & II – Course leader for pharmacology portion; anti-infectives, disinfectants, vaccinology, parasitases, 21 hours/year 2004-present.

CVM 5185 Small Animal Medicine and Surgery I and II lectures in the management of: cardiac, urinary, respiratory, GI, and endocrine diseases. 6 hours/year; 2004-present.

CVM 5814 The Feline Patient; CVM 5784 Clinical Behavior Medicine; CVM 5672 Veterinary Dentistry; one hour guest lecture in each course per year 2000-present.

**PAPERS & PRESENTATIONS**


"Teaching Veterinary Clinical Pharmacology." Moderator of multiple sessions and roundtable discussion of challenges facing the teaching of veterinary pharmacology. AAVPT 14th Biennial Symposium, Rockville, MD, May 2005.

"Pharmacokinetics and the Veterinary Antimicrobial Decision Support System (VADS)" European College of Veterinary Pharmacology and Toxicology Workshop, Lisbon, Portugal, July 2003.

"Regulatory issues for pharmacokinetics and bioequivalence: the US perspective"; co-presenter with J.O. Clark; European College of Veterinary Pharmacology and Toxicology Workshop, Lisbon, Portugal, July 2003.
Faculty

**Vernon Cory Langston** (continued)

**PUBLICATIONS**


New Degree Program Proposal

Veterinary Medical Technology
Bachelor’s of Science
Degree Program

Appendix 3
U.S. Department of Labor
Bureau of Labor Statistics
Occupational Outlook Handbook
Veterinary Technologists
and Technicians
(O*NET 29-2056.00)

Significant Points
Animal lovers get satisfaction from this occupation, but aspects of the work can be unpleasant, physically and emotionally demanding, and sometimes dangerous. Entrants generally complete a 2-year or 4-year veterinary technology program and must pass a State examination. Employment is expected to grow much faster than average. Overall job opportunities should be excellent; however, keen competition is expected for jobs in zoos and aquariums.

Nature of the Work
Owners of pets and other animals today expect state-of-the-art veterinary care. To provide this service, veterinarians use the skills of veterinary technologists and technicians, who perform many of the same duties for a veterinarian that a nurse would for a physician, including routine laboratory and clinical procedures. Although specific job duties vary by employer, there often is little difference between the tasks carried out by technicians and by technologists, despite some differences in formal education and training. As a result, most workers in this occupation are called technicians.

Veterinary technologists and technicians typically conduct clinical work in a private practice under the supervision of a licensed veterinarian. They often perform various medical tests and treat and diagnose medical conditions and diseases in animals. For example, they may perform laboratory tests such as urinalysis and blood counts, assist with dental prophylaxis, prepare tissue samples, take blood samples, or assist veterinarians in a variety of tests and analyses in which they often use various items of medical equipment, such as test tubes and diagnostic equipment. While most of these duties are performed in a laboratory setting, many are not. For example, some veterinary technicians obtain and record patients’ case histories, expose and develop x-rays and radiographs, and provide specialized nursing care. In addition, experienced veterinary technicians may discuss a pet’s condition with its owners and train new clinic personnel. Veterinary technologists and technicians assisting small-animal practitioners usually care for companion animals, such as cats and dogs, but can perform a variety of duties with mice, rats, sheep, pigs, cattle, monkeys, birds, fish, and frogs. Very few veterinary technologists work in mixed animal practices where they care for both small companion animals and larger, nondomestic animals. Besides working in private clinics and animal hospitals, veterinary technologists and technicians may work in research facilities, where they administer medications orally or topically, prepare samples for laboratory examinations, and record information on an animal’s genealogy, diet, weight, medications, food intake, and clinical signs of pain and distress. Some may sterilize
laboratory and surgical equipment and provide routine post-operative care. At research facilities, veterinary technologists typically work under the guidance of veterinarians or physicians. Some veterinary technologists vaccinate newly admitted animals and occasionally may have to euthanize seriously ill, severely injured, or unwanted animals. While the goal of most veterinary technologists and technicians is to promote animal health, some contribute to human health as well. Veterinary technologists occasionally assist veterinarians in implementing research projects as they work with other scientists in medical-related fields such as gene therapy and cloning. Some find opportunities in biomedical research, wildlife medicine, the military, livestock management, or pharmaceutical sales.

**Work environment.** People who love animals get satisfaction from working with and helping them. However, some of the work may be unpleasant, physically and emotionally demanding, and sometimes dangerous. At times, veterinary technicians must clean cages and lift, hold, or restrain animals, risking exposure to bites or scratches. These workers must take precautions when treating animals with germicides or insecticides. The work setting can be noisy. Veterinary technologists and technicians who witness abused animals or who euthanize unwanted, aged, or hopelessly injured animals may experience emotional stress. Those working for humane societies and animal shelters often deal with the public, some of whom might react with hostility to any implication that the owners are neglecting or abusing their pets. Such workers must maintain a calm and professional demeanor while they enforce the laws regarding animal care.

In some animal hospitals, research facilities, and animal shelters, a veterinary technician is on duty 24 hours a day, which means that some may work night shifts. Most full-time veterinary technologists and technicians work about 40 hours a week, although some work 50 or more hours a week.

**Training, Other Qualifications, and Advancement**

There are primarily two levels of education and training for entry to this occupation: a 2-year program for veterinary technicians and a 4-year program for veterinary technologists.

**Education and training.** Most entry-level veterinary technicians have a 2-year associate degree from an American Veterinary Medical Association (AVMA)-accredited community college program in veterinary technology in which courses are taught in clinical and laboratory settings using live animals. About 16 colleges offer veterinary technology programs that are longer and that culminate in a 4-year bachelor’s degree in veterinary technology. These 4-year colleges, in addition to some vocational schools, also offer 2-year programs in laboratory animal science. Several schools offer distance learning. In 2006, 131 veterinary technology programs in 44 States.
were accredited by the American Veterinary Medical Association (AVMA). Graduation from an AVMA-accredited veterinary technology program allows students to take the credentialing exam in any State in the country. Persons interested in careers as veterinary technologists and technicians should take as many high school science, biology, and math courses as possible. Science courses taken beyond high school, in an associate or bachelor's degree program, should emphasize practical skills in a clinical or laboratory setting. Technologists and technicians usually begin work as trainees in routine positions under the direct supervision of a veterinarian. Entry-level workers whose training or educational background encompasses extensive hands-on experience with a variety of laboratory equipment, including diagnostic and medical equipment, usually require a shorter period of on-the-job training.

**Licensure and certification.** Each State regulates veterinary technicians and technologists differently; however, all States require them to pass a credentialing exam following coursework. Passing the State exam assures the public that the technician or technologist has sufficient knowledge to work in a veterinary clinic or hospital. Candidates are tested for competency through an examination that includes oral, written, and practical portions and that is regulated by the State Board of Veterinary Examiners or the appropriate State agency. Depending on the State, candidates may become registered, licensed, or certified. Most States, however, use the National Veterinary Technician (NVT) exam. Prospects usually can have their passing scores transferred from one State to another, so long as both States use the same exam. Employers recommend American Association for Laboratory Animal Science (AALAS) certification for those seeking employment in a research facility. AALAS offers certification for three levels of technician competence, with a focus on three principal areas—animal husbandry, facility management, and animal health and welfare. Those who wish to become certified must satisfy a combination of education and experience requirements prior to taking the AALAS examination. Work experience must be directly related to the maintenance, health, and well-being of laboratory animals and must be gained in a laboratory animal facility as defined by AALAS. Candidates who meet the necessary criteria can begin pursuing the desired certification on the basis of their qualifications. The lowest level of certification is Assistant Laboratory Animal Technician (ALAT), the second level is Laboratory Animal Technician (LAT), and the highest level of certification is Laboratory Animal Technologist (LATG). The AALAS examination consists of multiple-choice questions and is longer and more difficult for higher levels of certification, ranging from 2 hours and 120 multiple choice questions for the ALAT to 3 hours and 180 multiple choice questions for the LATG.

**Other qualifications.** As veterinary technologists and technicians often deal with pet owners, communication skills are very important. In addition, technologists and technicians should be able to work well with others, because teamwork with veterinarians is common. Organizational ability and the ability to pay...
attention to detail also are important.

**Advancement.** As they gain experience, technologists and technicians take on more responsibility and carry out more assignments under only general veterinary supervision. Some eventually may become supervisors.

**Employment**

Veterinary technologists and technicians held about 71,000 jobs in 2006. About 91 percent worked in veterinary services. The remainder worked in boarding kennels, animal shelters, stables, grooming salons, zoos, State and private educational institutions, and local, State, and Federal agencies.

**Job Outlook**

Excellent job opportunities will stem from the need to replace veterinary technologists and technicians who leave the occupation and from the limited output of qualified veterinary technicians from 2-year programs, which are not expected to meet the demand over the 2006-16 period. Employment is expected to grow much faster than average.

**Employment change.** Employment of veterinary technologists and technicians is expected to grow 41 percent over the 2006-16 projection period, which is much faster than the average for all occupations. Pet owners are becoming more affluent and more willing to pay for advanced veterinary care because many of them consider their pet to be part of the family. This growing affluence and view of pets will continue to increase the demand for veterinary care. The vast majority of veterinary technicians work at private clinical practice under veterinarians. As the number of veterinarians grows to meet the demand for veterinary care, so will the number of veterinary technicians needed to assist them. The number of pet owners who take advantage of veterinary services for their pets—currently about 6 in 10—is expected to grow over the projection period, increasing employment opportunities. The availability of advanced veterinary services, such as preventive dental care and surgical procedures, also will provide opportunities for workers specializing in those areas as they will be needed to assist licensed veterinarians. The rapidly growing number of cats kept as companion pets is expected to boost the demand for feline medicine and services. Further demand for these workers will stem from the desire to replace veterinary assistants with more highly skilled technicians and technologists.

**Projections data from the National Employment Matrix**

<table>
<thead>
<tr>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
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<td>Veterinary Technologists and Technicians</td>
<td>29-2056</td>
<td>71,000</td>
<td>100,000</td>
<td>29,000 41</td>
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</tbody>
</table>

NOTE: Data in this table are rounded. See the discussion of the employment projections table in the Handbook introductory chapter on Occupational Information included in the Handbook.

Veterinary Technologists and Technicians in animal clinics and hospitals, shelters, boarding kennels, and humane societies.

Biomedical facilities, diagnostic laboratories, wildlife facilities, humane societies, animal control facilities, drug or food

Appendix 3, Page 4 of 5
manufacturing companies, and food safety inspection facilities will provide additional jobs for veterinary technologists and technicians. However, keen competition is expected for veterinary technologist and technician jobs in zoos and aquariums, due to expected slow growth in facility capacity, low turnover among workers, the limited number of positions, and the fact that the work in zoos and aquariums attracts many candidates.

**Job prospects.** Excellent job opportunities are expected because of the relatively few veterinary technology graduates each year. The number of 2-year programs has recently grown to 131, but due to small class sizes, fewer than 3,000 graduates are anticipated each year, which is not expected to meet demand. Additionally, many veterinary technicians remain in the field for only 7-8 years, so the need to replace workers who leave the occupation each year also will produce many job opportunities.

Employment of veterinary technicians and technologists is relatively stable during periods of economic recession. Layoffs are less likely to occur among veterinary technologists and technicians than in some other occupations because animals will continue to require medical care.

**Earnings**
Median hourly earnings of veterinary technologists and technicians were $12.88 in May 2006. The middle 50 percent earned between $10.44 and $15.77. The bottom 10 percent earned less than $8.79, and the top 10 percent earned more than $18.68.

**Related Occupations**
Others who work extensively with animals include animal care and service workers, and veterinary assistants and laboratory animal caretakers. Like veterinary technologists and technicians, they must have patience and feel comfortable with animals. However, the level of training required for these occupations is less than that needed by veterinary technologists and technicians. Veterinarians, who need much more formal education, also work extensively with animals, preventing, diagnosing, and treating their diseases, disorders, and injuries.

**Sources of Additional Information**
For information on certification as a laboratory animal technician or technologist, contact:
American Association for Laboratory Animal Science, 9190 Crestwyn Hills Dr., Memphis, TN 38125.
Internet: [http://www.aalas.org](http://www.aalas.org)

For information on careers in veterinary medicine and a listing of AVMA-accredited veterinary technology programs, contact:
American Veterinary Medical Association, 1931 N. Meacham Rd., Suite 100, Schaumburg, IL 60173-4360.
Internet: [http://www.avma.org](http://www.avma.org)
Proposal for a
Veterinary Medical Technology
Bachelor’s of Science
Degree Program

Appendix 4
Projected Budget
Veterinary Technology Program Projected Course Support Costs

The budget figures on all budget sheets only reflect the Junior and Senior years of the proposed program. CVM will have sole responsibility for the delivery of the Junior and Senior years. The Freshman and Sophomore years will be delivered on main campus.

Year 1
During years 1 and 2 of the proposed program, students will be taking the core curriculum of MSU. The first year of the new program will be focused on recruitment of potential students with plans that the junior year of the program will be initiated Fall 2010.

0 Junior Students
0 Senior Students

Projected Expenses and Income

<table>
<thead>
<tr>
<th>Animal Purchases</th>
<th># of animals</th>
<th>cost/animal</th>
<th>per/diem/year</th>
<th>total/lab</th>
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</thead>
<tbody>
<tr>
<td>Dogs (all techniques and Crit. Care)</td>
<td>0</td>
<td>$800.00</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Cats</td>
<td>0</td>
<td>$600.00</td>
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<tr>
<td>Horses (support 1 horse)</td>
<td>CVM herd</td>
<td>$-</td>
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<tr>
<td>Cows (same as FA course)</td>
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<tr>
<td>Lab animals</td>
<td>CVM owned</td>
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<tr>
<td>Pigs (necropsy)</td>
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<td>$40.00</td>
<td>-</td>
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</table>

Laboratory Commodities

| Micro, Clin Path, Animal handling skills, parasitology necropsy, anesthesia, anatomy (dissection of cats?) | 0 | $40.00 | - |

Office Supplies

| Paper (20 reams/month) | $1,000.00 |
| Copy Machine (10,000 additional copies/month) | $1,100.00 |

Senior Year Projected Costs

| (Commodities & Labs) | $ - |

Laboratory Support Staff

| $ - |

Office Support Staff (1 new positions) Benefits included

| $30,000.00 |

Faculty Positions (1 new position) Benefits included

| $110,000.00 |

Total Projected Cost for Year 1

| $142,100.00 |
Veterinary Technology Program Projected Course Support Costs

Year 2
24 Junior Students
0 Senior Students

Projected Expenses and Income

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<tr>
<th>Animal Purchases</th>
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<th>per/diem/year</th>
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<td>$8,993.60</td>
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<td>Cats</td>
<td>8</td>
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<td>Horses (support 1 horse)</td>
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<tr>
<td>Cats (support 1 horse)</td>
<td>6</td>
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<td>$4,887.00</td>
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<tr>
<td>Lab animals</td>
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<td>CVM owned</td>
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<td>Pigs (necropsy)</td>
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<td>skills, parasitology</td>
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<tr>
<td>anatomy (dissection of cats?)</td>
<td>8</td>
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<td>(10,000 additional copies/month)</td>
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Senior Year Projected Costs

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<th>(Commodities &amp; Labs)</th>
<th>cost/student</th>
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<tr>
<td>Laboratory Support Staff (1 new position)</td>
<td>Benefits included</td>
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<td>Office Support Staff, Benefits included</td>
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<td>$30,000.00</td>
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<tr>
<td>Faculty Positions (1 additional position)</td>
<td>Benefits included</td>
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Total Projected Cost for Year 2

|                              | $323,257.15  |

Cost/student

|                      | $13,469.05   |

Tuition/student

<table>
<thead>
<tr>
<th></th>
<th>Tuition/year/student</th>
<th>tuition year 2/student</th>
<th>tuition/year 2 24 students</th>
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<tbody>
<tr>
<td>Fall/ Spring resident total</td>
<td>$3,440.44</td>
<td>$5,018.83</td>
<td>$120,451.92</td>
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<tr>
<td>Summer (11 hours) resident total</td>
<td>$1,578.39</td>
<td>$5,018.83</td>
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Projected Budget

Veterinary Technology Program Projected Course Support Costs
Year 3
24 Junior Students
24 Senior Students

Projected Expenses and Income

<table>
<thead>
<tr>
<th>Animal Purchases</th>
<th># of animals</th>
<th>cost/animal</th>
<th>per/diem/year</th>
<th>total/lab</th>
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<tbody>
<tr>
<td>Dogs (all techniques and Crit. Care)</td>
<td>8</td>
<td>$800.00</td>
<td>$8,993.60</td>
<td>$15,393.60</td>
</tr>
<tr>
<td>Cats</td>
<td>8</td>
<td>$600.00</td>
<td>$7,650.40</td>
<td>$12,450.40</td>
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<tr>
<td>Horses (support 1 horse)</td>
<td>CVM herd</td>
<td></td>
<td>$1,646.15</td>
<td>$1,646.15</td>
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<tr>
<td>Cows (same as FA course)</td>
<td>6</td>
<td>Donated</td>
<td>$4,887.00</td>
<td>$4,887.00</td>
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<tr>
<td>Lab animals</td>
<td>CVM owned</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Pigs (necropsy)</td>
<td>24</td>
<td>$40.00</td>
<td></td>
<td>$960.00</td>
</tr>
</tbody>
</table>

Laboratory Commodities
- Micro, Clin Path, Animal handling skills, parasitology necropsy, anesthesia,
anatomy (dissection of cats?)
  | 8 | $40.00 | $320.00 |

Office Supplies
- Paper
  (20 reams/month)
- Copy Machine
  (10,000 additional copies/month)
  | $1,000.00 |
  | $1,100.00 |

Senior Year Projected Costs
- (Commodities & Labs)
  | $150.00 |
  | $3,600.00 |

Laboratory Support Staff, Benefits included
- $32,500.00

Office Support Staff, Benefits included
- $30,000.00

Faculty Positions, Benefits included
- $220,000.00

Total Projected Cost for Year 3
| $326,857.15 |

Cost/student
| $6,809.52 |

Tuition/student
Fall/Spring resident total
- $3,440.44
- $5,018.83
- $5,018.83
- $240,903.84
Summer (11 hours) resident total
- $1,578.39

Appendix 4, Page 3 of 6
## Veterinary Technology Program Projected Course Support Costs

### Year 4

<table>
<thead>
<tr>
<th>24 Junior Students</th>
<th>24 Senior Students</th>
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### Projected Expenses and Income

<table>
<thead>
<tr>
<th>Animal Purchases</th>
<th># of animals</th>
<th>cost/animal</th>
<th>per/diem/year</th>
<th>total/lab</th>
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</thead>
<tbody>
<tr>
<td>Dogs (all techniques and Crit. Care)</td>
<td>8</td>
<td>$800.00</td>
<td>$8,993.60</td>
<td>$15,393.60</td>
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<td>Cats</td>
<td>8</td>
<td>$600.00</td>
<td>$7,650.40</td>
<td>$12,450.40</td>
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<tr>
<td>Horses (support 1 horse)</td>
<td>CVM herd</td>
<td>$1,646.15</td>
<td></td>
<td>$1,646.15</td>
</tr>
<tr>
<td>Cows (same as FA course)</td>
<td>6 (Donated)</td>
<td>$4,887.00</td>
<td></td>
<td>$4,887.00</td>
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<tr>
<td>Lab animals</td>
<td>CVM owned</td>
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<tr>
<td>Pigs (necropsy)</td>
<td>24</td>
<td>$40.00</td>
<td></td>
<td>$960.00</td>
</tr>
</tbody>
</table>

### Laboratory Commodities

| Micro, Clin Path, Animal handling skills, parasitology necropsy, anesthesia, anatomy (dissection of cats?) | 8 | $40.00 | $320.00 |

### Office Supplies

| Paper (20 reams/month) | $1,000.00 |
| Copy Machine (10,000 additional copies/month) | $1,100.00 |

### Senior Year Projected Costs

| (Commodities & Labs) | $150.00 | $3,600.00 |

### Laboratory Support Staff, Benefits included

| Laboratory Support Staff, Benefits included | $32,500.00 |

### Office Support Staff, Benefits included

| Office Support Staff, Benefits included | $30,000.00 |

### Faculty Positions, Benefits included

| Faculty Positions, Benefits included | $220,000.00 |

### Total Projected Cost for Year 4

| $326,857.15 |

### Cost/Student

| $6,809.52 |

### Tuition/Student

<table>
<thead>
<tr>
<th>Tuition/year/student</th>
<th>Tuition/year 4/48 students</th>
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<tbody>
<tr>
<td>Fall/Spring resident total</td>
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<tr>
<td>Summer (11 hours) resident total</td>
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### Veterinary Technology Program Projected Course Support Costs

#### Year 5

<table>
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<th>Animal Purchases</th>
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<th>per/diel/year</th>
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<td>$7,330.50</td>
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<td>Pigs (necropsy)</td>
<td>36</td>
<td>$40.00</td>
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<td>$1,440.00</td>
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<tr>
<td>Laboratory Commodities</td>
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</tr>
<tr>
<td>Micro, Clin Path, Animal handling skills, parasitology necropsy, anesthesia, anatomy (dissection of cats?)</td>
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<tr>
<td></td>
<td>12</td>
<td>$40.00</td>
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<td>$480.00</td>
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<td>Office Supplies</td>
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<td>Paper</td>
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<td>(20 reems/month)</td>
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<td>(10,000 additional copies/month)</td>
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<tr>
<td>Senior Year Projected Costs</td>
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<td></td>
</tr>
<tr>
<td>(Commodities &amp; Labs)</td>
<td>$150.00</td>
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<td>$3,600.00</td>
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<tr>
<td>Laboratory Support Staff, Benefits included</td>
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<td>$32,500.00</td>
<td></td>
</tr>
<tr>
<td>Office Support Staff, Benefits included</td>
<td></td>
<td></td>
<td>$30,000.00</td>
<td></td>
</tr>
<tr>
<td>Faculty Positions, Benefits included</td>
<td></td>
<td></td>
<td>$220,000.00</td>
<td></td>
</tr>
<tr>
<td>Total Projected Cost for Year 5</td>
<td></td>
<td></td>
<td>$343,862.65</td>
<td></td>
</tr>
</tbody>
</table>

| Cost/student | $5,731.04 |
| Tuition/student | Tuition/year/student | tuition year 5/student | tuition/year 5 60 students |
| Fall/ Spring resident total | $3,440.44 | $5,018.83 | $5,018.83 | $301,129.80 |
| Summer (11 hours) resident total | $1,578.39 | |

Appendix 4, Page 5 of 6
Projected Budget

Veterinary Technology Program Projected Course Support Costs

Year 6
36 Junior Students
36 Senior Students

Projected Expenses and Income

<table>
<thead>
<tr>
<th>Animal Purchases</th>
<th># of animals</th>
<th>cost/animal</th>
<th>per/diem/year</th>
<th>total/lab</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dogs (all techniques and Crit. Care)</td>
<td>12</td>
<td>$800.00</td>
<td>$13,490.40</td>
<td>$23,090.40</td>
</tr>
<tr>
<td>Cats</td>
<td>12</td>
<td>$600.00</td>
<td>$11,475.60</td>
<td>$18,675.60</td>
</tr>
<tr>
<td>Horses (support 1 horse)</td>
<td>CVM herd</td>
<td></td>
<td>$1,646.15</td>
<td>$1,646.15</td>
</tr>
<tr>
<td>Cows (same as FA course)</td>
<td>9 Donated</td>
<td>$40.00</td>
<td>$7,330.50</td>
<td>$7,330.50</td>
</tr>
<tr>
<td>Lab animals</td>
<td>CVM owned</td>
<td></td>
<td>$23,090.40</td>
<td>$18,675.60</td>
</tr>
<tr>
<td>Pigs (necropsy)</td>
<td>36</td>
<td>$40.00</td>
<td></td>
<td>$1,440.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Laboratory Commodities</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Micro, Clin Path, Animal handling skills, parasitology necropsy, anesthesia, anatomy (dissection of cats?)</td>
<td>12</td>
<td>$40.00</td>
<td>$480.00</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Office Supplies</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Paper</td>
<td></td>
<td></td>
<td>$1,000.00</td>
<td></td>
</tr>
<tr>
<td>(20 reems/month)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Copy Machine</td>
<td></td>
<td></td>
<td>$1,100.00</td>
<td></td>
</tr>
<tr>
<td>(10,000 additional copies/month)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Senior Year Projected Costs</th>
<th>cost/student</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>(Commodities &amp; Labs)</td>
<td>$150.00</td>
<td></td>
<td>$3,600.00</td>
<td></td>
</tr>
</tbody>
</table>

| Laboratory Support Staff, Benefits included |              |             | $32,500.00    |            |
| Office Support Staff, Benefits included   |              |             | $30,000.00    |            |
| Faculty Positions, Benefits included      |              |             | $220,000.00   |            |

| Total Projected Cost for Year 6          |              |             | $343,862.65   |            |

Cost/student $4,775.87

Tuition/student

<table>
<thead>
<tr>
<th>Tuition/year/student</th>
<th>Tuition/year/6 student</th>
<th>Tuition/year/672 students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall/ Spring resident total</td>
<td>$3,440.44</td>
<td>$5,018.83</td>
</tr>
<tr>
<td>Summer (11 hours) resident total</td>
<td>$1,578.39</td>
<td></td>
</tr>
</tbody>
</table>

Appendix 4, Page 6 of 6