

# Veterinary Medical Science

## College of Veterinary Medicine

Dr. Gregg Boring, Interim Dean  
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Research and Graduate Studies  
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**Admission Criteria**—To be admitted to the Veterinary Medical Sciences Graduate Program the applicant must either hold a D.V.M. degree from a recognized college of veterinary medicine or have at least a bachelor's degree from a fully recognized four-year institution of higher learning. The scholastic record for all undergraduate, graduate, and professional school coursework will be reviewed and should exceed a minimum GPA of 3.00 for undergraduate work; GPA of 3.00 for graduate work; GPA of 2.75 for the four years of the veterinary curriculum or 2.75 for the last two years of the veterinary curriculum. Also required are three reference letters, a minimum TOEFL score of 550 for international students where English is not the primary language, and if a Graduate Record Examination (GRE) score is available it will be considered.

### Program of Study/Completion

**Requirements**—Course requirements for the master's degree are a minimum of 30 hours approved graduate credit which includes one statistics and one seminar course, one-half or more of course work must be 8000 level courses or above, and a final examination (oral and/or written) which covers both the major and supportive fields and includes defense of the thesis.

Course requirements for a Ph.D. are a minimum of 60 hours beyond a master's which include at least 21 hours of dissertation research, three seminar courses, two statistics courses, and pass preliminary and final examinations, both of which can cover the major and supportive fields and includes defense of the dissertation.

Thesis based M.S. and Ph.D. students must present an open seminar of the thesis/dissertation research just prior to oral final examinations. The student must adhere to the University and College regulations regarding

his/her graduate program. A non-thesis master's degree with emphasis in Population Medicine is also available through the Veterinary Medical Science Graduate Program.

**Provisional Admission**—In special circumstances a student who does not meet admission criteria may be admitted provisionally if approved by the Graduate Advisory Committee. See Provisional Admission under Admission in this publication for provisional requirements.

**Academic Performance**—If a student does not show satisfactory progress toward meeting academic, research, and/or thesis requirements, his/her performance will be reviewed in a meeting with the student's graduate committee. This committee may recommend a change in the student's program or recommend that the student be dismissed from the degree program in the College of Veterinary Medical Science program. In addition, three grades below a B in graduate courses will remove the student from degree candidacy.

For more information write to: Graduate Coordinator, Veterinary Medical Science Program, College of Veterinary Medicine, P.O. Box 6100, Mississippi State, MS 39762-6100 or visit our website: <http://www.cvm.msstate.edu>.

**Graduate Courses**—Course prerequisites are listed in parentheses.

- CVM 6104 Avian Diagnostic Microbiology. 4 hours
- CVM 6113 Avian Histopathology (consent of instructor). 3 hours
- CVM 6114 Avian Pathology (consent of instructor). 4 hours
- CVM 6134 Aquatic Animal Health Management (one course in microbiology and one course in physiology). 4 hours
- CVM 6513 Environmental Toxicology (8 hours biological sciences and 8 hours chemistry). 3 hours
- CVM 7000 Directed Individual Study. 1-6 hours
- CVM 8000 Research/Thesis. 6 hours
- CVM 8011 Seminar. 1 hour
- CVM 8031 Current Topics in Molecular Mechanisms of Disease. 1 hour
- CVM 8091 Current Topics in Production Animal Medicine (consent of instructor). 1 hour

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| CVM 8105 | Avian Medicine Externship. 5 hours   | CVM 8805 | Advanced Small Animal Clinical Neurology (must already have registerable veterinary degree and consent of instructor). 5 hours |
| CVM 8113 | Advanced Diseases of Poultry. 3 hours  | CVM 8890 | Economic and Performance Medicine (consent of instructor). 3 hours   |
| CVM 8133 | Avian Necropsy (consent of instructor). 3 hours  | CVM 8990 | Special Topics in Veterinary Medicine. 1-9 hours   |
| CVM 8134 | Advanced Fish Diseases (CVM 6134 or consent of instructor). 4 hours                                | CVM 9000 | Research/Dissertation. 20 hours  |
| CVM 8141 | Seminar Histopathology of Fish Diseases (CVM 6134 or consent of instructor). 3 hours               |          |  |
| CVM 8143 | Epidemiology/Biostatistics. 3 hours  |          |  |
| CVM 8190 | Aquatic Diagnostic Investigation (CVM 6134 or equivalent or consent of instructor). 1-6 hours      |          |  |
| CVM 8301 | Advanced Topics in Comparative Immunology. 1 hour  |          |  |
| CVM 8303 | Advanced Immunology (BIO 6413 or equivalent or consent of instructor). 3 hours                     |          |  |
| CVM 8315 | Immunological Techniques. 5 hours  |          |  |
| CVM 8403 | Principles of Pharmacology and Pharmacokinetics. 3 hours   |          |  |
| CVM 8513 | Applied Veterinary Epidemiology. 3 hours   |          |  |
| CVM 8614 | Helminthology (BIO 1504 or equivalent). 4 hours  |          |  |
| CVM 8624 | Protozoology (BIO 1504 or equivalent). 4 hours   |          |  |
| CVM 8701 | Pathology Seminar. 1 hour  |          |  |
| CVM 8711 | Histopath Descriptions (consent of instructor). 1 hour   |          |  |
| CVM 8723 | Advanced General Pathology (consent of instructor). 3 hours  |          |  |
| CVM 8735 | Mechanisms of Disease (acceptance to dual degree DVM/MS program or consent of Instructor). 5 hours |          |  |
| CVM 8790 | Laboratory Diagnostic Services. 1-9 hours  |          |  |

## **Weed Science**

**(See Plant and Soil Sciences)**

## **Wildlife And Fisheries**

### **College of Forest Resources**

Dr. George M. Hopper, Dean/Director  
 Dr. Bruce D. Leopold, Department Head  
 Dr. Donald C. Jackson, Graduate Coordinator  
 Thompson Hall 109  
 662-325-3830

The Wildlife and Fisheries Department offers graduate education leading to the Master of Science in Wildlife and Fisheries Science with emphasis in either wildlife ecology, fisheries ecology, or aquaculture. The Master of Science degree requires 24 hours of course work, including one graduate course in statistics, a thesis, a thesis defense, and a comprehensive oral examination. . A Ph.D. degree is offered in Forest Resources with emphasis in wildlife ecology, fisheries ecology, or aquaculture. The Ph.D. requires a comprehensive written diagnostic examination, one graduate level statistics course, variable hours of course work (determined by graduate committee), oral and written comprehensive preliminary examinations, a dissertation and oral defense of dissertation. A limited number of graduate research assistantships are available. For additional information write to Department Head, Department of Wildlife and Fisheries, Box 9690, Mississippi State, MS 39762-9690.