Department of Biological and Environmental Sciences

Biology M.S. Degree Program
Science of the Future
Our Mission

• Educate students in the fundamentals of problem solving in biological sciences through the integration of teaching and research

• Prepare students well prepared for positions in industry, public and private sectors, or further graduate studies
Objectives

• Provide students with high quality course instruction and research opportunities.
• Conduct research in specialized areas of biological sciences.
• Promote scientific literacy.
• Enhancing student career placement opportunities through mentoring.
Core Course Requirement

Courses include:

• Bio-Instrumentation
• Research and Research Ethics
• Current Concepts in Biology

Enable students acquire needed concepts and skills.
Degree Concentration Areas

- MICROBIOLOGY
- PHYSIOLOGY
- GENETICS AND MOLECULAR BIOLOGY
- ECOLOGY AND SYSTEMATICS
Research Areas

- Biological Decontamination
- Microbial Biofilms
- Nanoparticles & Bio-Interactions
- Chemical Mutagenesis
- Neurophysiology
- Bio-fuel and Sustainable Energy
- Aerobiology
- Health Disparities
A Limited number of competitive graduate research and teaching assistantships are available to qualified candidates.

Financial Assistantship information may also be obtained from the AAMU Financial Aid Office.
Students in Lab
Research Stations & Study Classroom
A Few Student Statements

“The professors take time to understand your short term and long term goals academically, and they go the extra step to help you succeed.” J. White

“Under faculty guidance, I am working on a project that is on the cutting edge of science. So far I have flourished as a scientist ......at A&M and I couldn’t be happier with my decision.” K. Franklin

“You will get all the opportunities to explore your ideas here, with good support of the professors.” R. Cheniya
Our Recent Graduates Go
...Upon Graduation

1. **Ph.D. Program**... E. Weems, S. Pulliam (Microbiology Meharry Med. College). L. Dalrymple Ph.D. Food Sc. AAMU.

2. **Federal Agency (FDA)**... B. Neloms, C. Strong, A. Taylor

3. **Bio-Labs**... D. Taylor, A. Ebenezer

4. **Health Professional Programs**: Q. Rover, Ohio Osteopathic Medical School; S. Reevers, Auburn School of Pharmacy School; E. Nuckles Veterinary Medicine
Faculty Expertise

- Sampson Hopkinson, Ph.D. *Plant Biology*
- Cynthia Jackson, Ph.D. *Physiology*
- Jeanette Jones, Ph.D. *Mycology/Medical Mycology*
- Purushottam Kale Ph.D. *Genetics* {Emeritus}
- Florence Okafor, Ph.D. *Medical Microbiology*
- Jacob Savage, Ph.D. *Indus. Microbiology*
- Cameron Sheeler, Ph.D. *Cell Biology and Physiology*
- Conwin Vanterpool, Ph.D. *Pharmacology/Physiology*
Faculty

Hopkinson, Sampson, Ph.D. Associate Professor

Kale, Purushottam, Ph.D. Professor {Emeritus}

Jones, Jeanette, Ph.D. Professor, Graduate Program Coordinator

Vanterpool, Conwin, Ph.D Adjunct Professor
Faculty

Savage, Jacob, Ph.D.

Okafor, Florence, Ph.D.
Interim Chair

Sheeler, Cameron, Ph.D.
Assistant, Professor

Jackson, Cynthia, Ph.D.
Associate, Professor
Biology Student Workers
“What Skills Do I Develop as a Biologist at AAMU?”

- Ability to make critical observations and appropriate decisions
- Proficiency in problem-solving
- Conducting and explaining research
- Determining relationships between factors
- Collecting and analyzing data
- Drawing conclusions from data
- Understanding and expressing complex scientific and technical information
- Writing grant proposals
- Team work
- Ability to organize and maintain accurate records
- Meeting deadlines
A Sneak Peak at Our Program
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The Biology Program is Committed to Excellence in Research, Teaching, and Public Service.

For more information on options, career opportunities, and degree plans at Alabama Agricultural & Mechanical University visit our website at [http://www.aamu.edu](http://www.aamu.edu) and follow the catalog link.
Students interested in our program are encouraged to visit the department and meet the faculty as well as student representatives. To arrange a visit with one of our instructors, please call or stop by the Biology office.

Carter Hall, Room 309
(256) 372-5329 (Phone)
(256) 372-5905 (Fax)
The Biology Graduate Program

THANK YOU. Go Bulldogs!!