



The University of Arkansas Pine Bluff is accredited by the Higher Learning Commission North Central Association

Statement from the Department Chair

Welcome to the Department of Chemistry and Physics at the University of Arkansas at Pine Bluff. UAPB is a dynamic institution that embodies an ideal academic standard in an ever changing technological world of science. We are in line with the University's mission and vision and we are in the process of launching new programs especially for undergraduate programs that target new and emerging areas in nanotechnology and nanomaterials. Under the supervision of faculty, the department has progressively engaged in various research activities. This has enabled us to post several patents and publications in peer reviewed journals as we continue to explore the area of innovation through the hard work of competent members of staff. The faculty and staff are excited and ready to serve all students, Pine Bluff community

Admission Process

Any new student (first time, transfer or special students) who desire to enroll in classes, whether seeking a degree or not, must file a formal application for admissions and must submit complete official transcript of all previous academic work. Transcripts must be sent directly to the Office of Admissions by the issuing schools. All new students having taken less than 30 semester hours must have ACT scores on file with the University prior to registering for classes. The ACT is administered on-campus during the orientation period for those students who were unable to take it earlier. All students must be admitted to the University prior to registration. Contact the Office of Admissions and Academic Records for more information.

Financial Aid and Scholarships

Contact us for more information

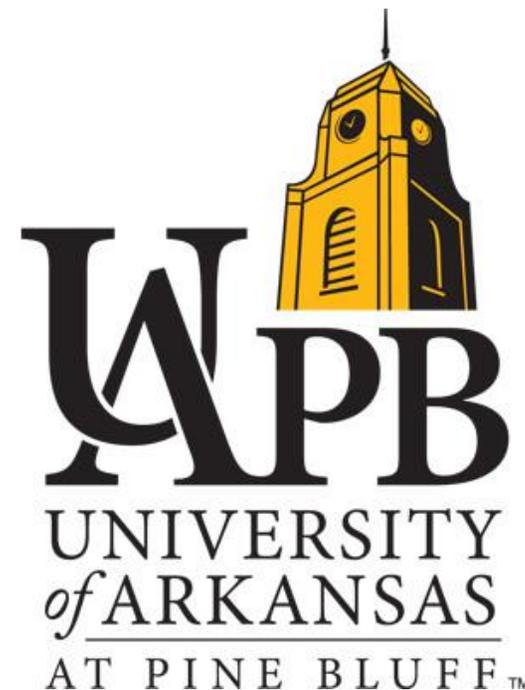
Contact Us

Physics Program



**UNIVERSITY OF ARKANSAS
AT PINE BLUFF**

1200 N. University Drive
Pine Bluff, AR 71601



**Department of
Chemistry &
Physics**

*Preparation for a Competitive Edge in
Technological Era*

Introduction

The Physics Program at University of Arkansas at Pine Bluff is student-centered and designed to provide students with opportunities and experiences to allow them to pursue future careers in a variety of areas. One of the key tenants of the program is the hands-on emphasis on laboratory experience as well as classroom instruction. This practice is aided by industry-related equipment and techniques.

The field of physics is emerging to meet the demands of the economic future as new technologies and interdisciplinary fields become increasingly important. The Physics Degree program at the University of Arkansas at Pine Bluff helps prepare students for graduate school in physics and other professionals that include Engineering, Geophysicist/field Seismologist, Metallurgist, Radiation Protection Practitioner etc. Jobs where your degree would be useful include: Investment Analyst, Meteorologist, Operational Researcher, Patent Attorney and Systems Developer.

Degree Offered

The department offers the Bachelor of Science Degree in Chemistry and Physics with an Option in Physics. This degree is designed for those students, who wish to pursue graduate studies in physics or related fields, attend professional schools or work as laboratory physicist. A Bachelor of Science Degree with endorsement in education is offered to those students who plan to become high school physics teachers. A Master's Degree in General Science Education is also offered.

Out of Class Opportunities

The Physics Program strongly encourages undergraduate research. Research experiences with financial remuneration are sometimes available to students who qualify for federally funded programs. UAPB is in close proximity to major research facilities at the National Center for Toxicological Research and the University of Arkansas at Little Rock. Research experiences at these locations are available to students through cooperative research programs. A cooperative educational program also exists which allows students to obtain relevant work experience in off-campus settings. UAPB has an active American Physics Society Student Affiliates Chapter and offers educational opportunities for students in HBCU UP (STEM Scholars Academy) and ARK-LSAMP.

What makes Physics Unique?

The Chemistry and Physics Department provides an engaged learning community between students and faculty through small class sizes, undergraduate research with faculty and personal advisors. This environment is enhanced by state-of-the-art equipment that is used in many professional and research settings not normally available in the undergraduate setting. Another unique aspect is the significant amount of exploratory learning available to students. This environment of exploration utilizes and sharpens critical thinking skills vital to any physics profession. By making a wide scope of high-quality instrumentation available in core laboratory courses, students are exposed to unique learning opportunities to hone their skills for a variety of careers.

Physics Program

All students in the physics major take a core set of courses listed below.

Common Core Program Requirement

Principles of Biology	Analytical Mechanics
General Chemistry I/Lab	Modern Physics
General Chemistry II/Lab	Thermodynamics
Calculus I	Optics
Calculus II	Space Physics
University Physics I/Lab	Quantum Mechanics
University Physics II/Lab	Advanced Laboratory
Differential Equations	Intro to Solid State
Physics Research I	Math Methods in Physics
Physics Seminar	Nuclear Physics
Electricity/Magnetism	

Physics Faculty/Department of Mathematics & Computer Science

Mansour Mortazavi, PhD. Professor, University of Arkansas at Fayetteville, AR. Laser Physics.

Aslam Chowdhury, PhD. Associate Professor, Oklahoma State, Stillwater, OK. Laser Light Scattering.

Seyed Ghetmiri, PhD. Assistant Professor, University of Arkansas, Fayetteville, AR. Microelectronics-Photonics.

Physics Faculty

Miah Adel, PhD. Professor, Louisiana State University, Baton Rouge, LA. Space Physics and Environmental Science.

Aboozar Mosleh, PhD. Assistant Professor, University of Arkansas, Fayetteville, AR. Nanoscience Physics: Microelectronics-Photonics.

Shaheen Khan, BSc. Laboratory Instructor Lane College, Jackson TN. Chemistry and Physics.

Administration

Grant W. Wangila, PhD., Chairperson, University of Alberta, Edmonton, AB, Canada.

Kimberly Ross, BA, Administrative Specialist III. University of Arkansas at Little Rock, AR.