

APPLIED SCIENCE PROGRAM

The Department of Advanced Technologies offers a Bachelor of Science degree in Applied Science with a concentration in Electro-Mechanical Engineering/Systems Science and Computer Engineering/Systems Science.

The **Electro-Mechanical Engineering/Systems Science** field incorporates elements of both electrical and mechanical engineering technology.

The electrical component of the curriculum includes course work in areas such as circuit analysis and electronics. The mechanical component consists of traditional engineering sciences including fluid mechanics, thermodynamics, and mechanics of materials and machines.

The department also offers a Bachelor of Science degree in Applied Science with a concentration in **Computer Engineering/Systems Science**. In this field, students study in-depth software and hardware design, as well as computer systems integration and applications.

FACULTY

Dr. Kwabena Agyepong
Chairperson, Associate Professor
Computer Networking & Information Technology
kwabena@alcorn.edu

Dr. Sam Aceil
Professor
Robotics & Automation Technology
saceil@alcorn.edu

Dr. John Adjaye
Assistant Professor
Robotics & Automation Technology
adjaye@alcorn.edu

Dr. Steve Adzanu, Program Director
Associate Professor
Robotics & Automation Technology
adzanu@alcorn.edu

Dr. Jyotirmay Gadewadikar
Assistant Professor
Robotics & Automation Technology
jyo@alcorn.edu

Ms. Mamie Griffin
Instructor
Robotics & Automation Technology
mgri468135@aol.com

Dr. Ognjen Kuljaca
Assistant Professor
Robotics & Automation Technology
okuljaca@alcorn.edu

Dr. Erol Sarigul
Assistant Professor
Robotics & Automation Technology
esarigul@email.com

ALCORN STATE UNIVERSITY

DEPARTMENT OF ADVANCED TECHNOLOGIES



ELECTRO-MECHANICAL ENGINEERING TECHNOLOGY AND COMPUTER ENGINEERING - SYSTEMS SCIENCE

1000 ASU DRIVE #360
ALCORN STATE, MS 39096-7500
PHONE (601) 877-6482
FAX (601) 877-3941

www.adtech.alcorn.edu

ELECTRO-MECHANICAL ENGINEERING/SYSTEMS SCIENCE

The **Electro-Mechanical Engineering/Systems Science** major provides students with the necessary electrical and mechanical background to enable them to tackle and solve practical electro-mechanical and related problems in various types of industrial settings.

Several commercial, industrial, and military equipments consist of electrical and mechanical components that work together to realize the equipment's functionality. It is therefore necessary to educate students who wish to enter into the workforce with the proper understanding of the interaction between electrical and mechanical systems.

The **Electro-Mechanical Engineering/Systems Science** major is, therefore, designed to provide students who desire to enter the industrial world as electrical and mechanical technologist/electrical with the skills and academic foundations that will enable them to find employment and career opportunities in this ever growing sector of technology.



COMPUTER ENGINEERING/SYSTEMS SCIENCE

The **Computer Engineering/Systems Science** major provides students with fundamental knowledge in computer software and hardware required in developing the knowledge and skills necessary for the design and implementation of computers and computer systems, the integration of computers into larger systems, and the application of digital solutions to a broad range of engineering problems.



This major provides the student with a well-rounded education encompassing the theory and practice of computer software, hardware, and electronics to enable the student to contribute and continue their education in a wide range of computer-related engineering fields. The program seeks to emphasize hands-on experience, problem solving, and the creative process that prepares the student to work in the dynamic and rapidly expanding field of digital technology.

NATURE OF THE WORK

Electro-Mechanical Engineering Technicians work with equipment that uses electric power to operate mechanical controls. They design, develop, test, and manufacture electrical and computer-controlled mechanical systems.

They work in the computer and office machines industries and a wide variety of other industries that use electromechanical equipment, such as pilot systems, elevator controls, vending machines, and guided missile systems.

Computer Engineering professionals might find themselves in a variety of environments in academia, research, industry, government, private and business organizations – analyzing problems for solutions, formulating and testing, using advanced communications or multi-media equipment, or working in teams for product development.

While the computing field is one of the fastest growing segments of industry, it is also one of the fastest changing. Success requires an ongoing commitment to learning to maintain knowledge, skills, and career opportunities.

FOR MORE INFORMATION ▼

Visit adtech.alcorn.edu to learn more about the Department of Advanced Technologies.