



## MASTER OF MATHEMATICS AND PHYSICS

### Physics Concentration

Physics is a broad subject that ranges from pondering the origins of the universe to designing better electronic memory devices. The M.S. (Master of Science), with a concentration in Physics, prepares students to obtain an advanced degree (Ph.D.) in physics or a related field or for employment in a hi-tech field. Students who successfully complete the program will have acquired the physics training/research skills necessary to teach pre-college and high school students and to secure a job in the high technology market.

Southern University and A&M College is an excellent choice for graduate studies in Mathematics and Physics. Major areas of research include Condensed Matter Physics (Theory and Experiments); Magnetic Materials; Computational Physics; Atomic, Molecular, and Nuclear Physics and Applications; Surface Physics; and Materials Science. Our faculty provide personal attention and the needed support to students for their successful completion of the program.

#### CAREER OPPORTUNITIES

The foundations of most science, engineering, and technology disciplines rest on the laws of Physics. Physics leads to careers in technology, sports and games, space and aerospace sciences, sound engineering in music and television, medicine, and in teaching (at universities and in secondary schools). From 2008 to 2018, 2/3<sup>rd</sup> of the M.S. degree holders, with a Physics Concentration, have earned or are successfully pursuing Ph.D. degrees. *A Master's in Mathematics and Physics, with a concentration in Physics, is an excellent choice for students seeking exciting and promising careers in a variety of settings.*

#### ADMISSION REQUIREMENTS

- ✓ Admission to the Southern University Graduate School
- ✓ A Bachelor's Degree in physics or a related area with at least 27 credit hours of physics courses or equivalent
- ✓ Three (3) letters of recommendation; one of which must be from a faculty advisor
- ✓ A brief essay describing the applicant's career plans
- ✓ TOEFL scores (for International Students only)

#### DEGREE OPTIONS/GRADUATION REQUIREMENT

- ✓ Completion of a program of at least 24 hours of graduate coursework [includes all core courses] with an overall "B" average or better and six (6) hours of thesis research
- ✓ A passing score on the Physics Concentration Comprehensive Examination (PCCE)
- ✓ Successful defense of a thesis

#### GRADUATE ASSISTANTSHIPS

The Department of Mathematics and Physics offers graduate assistantships for eligible students who show outstanding potential. These assistantships are competitively awarded typically for an academic year and are contingent on the availability of funds.

#### CONTACT INFORMATION

Contact person: Dr. Diola Bagayoko, M.S. Program Director

Email: [diola\\_bagayoko@subr.edu](mailto:diola_bagayoko@subr.edu)

Phone: (225) 771-2730 | Fax: (225) 771-4341

#### THE GRADUATE SCHOOL

For more detailed information, please refer to the Southern University Graduate School website:

<http://www.subr.edu/page/1567>

