

RECOGNITION
OPPORTUNITIES

for

AUBURN UNIVERSITY'S
COLLEGE OF SCIENCES
AND MATHEMATICS

LEACH
SCIENCE
CENTER
+ ADDITION

THE IMPORTANT ROLE *of* PHYSICS

Recognized as the most fundamental science, physics seeks to explain how the physical universe behaves and works.

The study of physics leads to the path of innovation and discovery, confronting questions on topics ranging from the origins of the universe and sustainable forms of energy to personal electronics and the treatment of disease. The study of physics provides an ideal background for personal growth and for an array of rewarding careers in areas including scientific research, higher education, business, medicine, law, and computer science. Students pursuing the study of physics embark on a journey limited only by their imaginations and these pivotal journeys begin in classrooms and laboratories on Auburn's campus.

Auburn University's College of Sciences and Mathematics (COSAM) is committed to remaining at the forefront of academic instruction, research, and outreach. As part of this commitment, the college is continually improving facilities to integrate state-of-the-art technology with contemporary learning environments, such as the new Leach Science Center Addition. This renovation and addition will create a physics complex in COSAM consisting of instructional and research laboratories, student success and collaborative study spaces, departmental offices, and student support facilities. The Leach Science Center will house modern classrooms that support the teaching, learning, and assessment needs of Auburn students and faculty members — both now and in the future.



LEACH SCIENCE CENTER + ADDITION

A NEW HOME *for* PHYSICS

Advancing COSAM's commitment to providing its students with the environment and tools they need to excel in their chosen fields, the expanded Leach Science Center will provide a variety of welcoming, collaborative spaces.

The renovation and addition will increase the size of the current facility by 30,000 square feet and add more than 11,000 square feet of dedicated student space. Additionally, it will include a 1,954-square-foot astronomy terrace, new instructional and research labs, and an administrative suite that

provides a more centralized and efficient unit for physics faculty and administrators. The facility also will provide value-added benefits to many of the year-round programs sponsored by COSAM's Office of Outreach, which cultivate curiosity in sciences and mathematics among thousands of the state's K-12 students and educators.

The Leach Science Center project provides numerous philanthropic opportunities, including naming the integral teaching, research, collaboration, and student spaces throughout the building.



ASTRONOMY TERRACE

\$1,000,000

*awe-inspiring
innovative*

A highlight of the Leach Science Center expansion will be the awe-inspiring astronomy terrace, an experiential laboratory designed to enhance the learning opportunities of students interested in this popular area of science. The innovative, roof-top terrace is designed to help Auburn's College of Sciences and Mathematics meet the changing learning styles of today's students while incorporating emerging technologies. The 1,954-square-foot modern, instructional facility will allow the college to accommodate as many as 600 students per year in astronomy courses — an increase of nearly 250 percent.

Currently, students must move, set up and recalibrate telescopes with each use due to space restrictions. The new astronomy terrace will include up to 18 telescopes mounted on concrete piers, which will increase observation time and efficiency. Additionally, each telescope will be linked to an in-house computer located in the new astronomy classroom allowing students to access data and spectroscopic observations from the astronomy terrace while in the classroom.



1,954 SQ FT
18 TELESCOPES
600 STUDENTS PER YEAR

 Leach Astronomy Terrace




LEVEL 1



ATRIUM

\$400,000



Bordering undergraduate laboratory space, the 1,117-square-foot atrium provides a corridor for numerous Auburn University students taking foundational physics courses. As one of the building's main arteries, hundreds of students and faculty members will flow through the atrium daily, meet classmates, and use the variety of comfortable seating areas to study or collaborate. The design incorporates natural light and open concept spaces, providing a welcome departure from traditional, insular classroom environments. Everything about the atrium invites students and faculty members in — to interact, learn, and discover.

CLASS LAB COLLOQUIUM/ SEMINAR/ CONFERENCE ROOM

\$250,000

The Leach addition also includes multiple group collaboration areas, but none as large as the nearly 2,000-square-foot class lab colloquium/ seminar/conference room. This space will feature contemporary adaptive learning tools such as interactive white and glass boards to stimulate collaborative work and encourage shared knowledge and experiences. The open, multi-purpose area includes flexible, problem-based learning spaces which merge contemporary design and learning styles with proven educational techniques. The seating and interactive technology facilitate a productive learning environment and encourage discussion more effectively than traditional rows of desks.



- Atrium
- Class Lab Colloquium/Seminar/Conference Room
- Physics Class Labs
- Group Study Space



LEVEL 2

CONFERENCE ROOM

\$150,000

The corner hub of the science center's second level, the main conference room will serve as a meeting space for the entire department, creating an enhanced, collaborative culture. State-of-the-art technology integration will transform a traditional meeting room into a highly sought-after space that facilitates communication, brainstorming, and innovation.

ADMINISTRATIVE SUITE

\$150,000

Located between class laboratory space and graduate group work and study areas, the administrative suite accommodates the entire Department of Physics administration in one 1,300-square-foot location. In addition to improving the culture of interaction and collaboration, the new space provides a more centralized, productive, and accessible unit.



- Conference Room
- Administrative Suite
- Physics Class Labs
- Group Study Space
- Faculty Offices
- Faculty Lounge

LEVEL 3



FACULTY RESEARCH LAB

(2) \$100,000

Research drives the development of scientific thinking, adds to the body of knowledge, and propels practical and theoretical advancements forward. The Leach Science Center expansion will provide two 941-square-foot faculty research labs with state-of-the-art equipment and ample space to support faculty members who lead the field, conducting ground-breaking research in their disciplines and inspiring students with their practical, scientific discoveries.

SOCIETY OF PHYSICS STUDENTS LOUNGE

\$50,000

Auburn's chapter of the Society of Physics Students is extremely active with regular meetings and collaborative projects such as the design and construction of a vehicle for the national Moon Buggy competition. The science center renovation and addition will create a dedicated Society of Physics Students lounge, fostering camaraderie, support, and the generation of new ideas and insights among physics majors.

ASTRONOMY CLASSROOM

\$125,000

The new astronomy classroom will empower those who had only looked with awe at the sky, lit with countless stars, and those who are serious investigators of astronomy, the science that seeks to explain everything we observe in the universe. A contemporary, active learning space with more than 1,150 square feet, the astronomy classroom will be connected to telescopes on the roof-top astronomy terrace, creating a learning experience in which the entire universe becomes explorable.



The expansion of the Leach Science Center will provide the Department of Physics with new instructional laboratories and research laboratories, allowing us to better serve the Auburn students who take foundational physics courses and to also advance the research mission of the department. One fantastic feature of the building will be the roof-top terrace where a collection of telescopes used for teaching astronomy will be located. This will allow us to expand our core astronomy courses and teach this important area of science in new and exciting ways.

Nicholas Giordano

DEAN OF THE COLLEGE OF SCIENCES AND MATHEMATICS

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