

COLLEGE OF SCIENCE, ENGINEERING AND TECHNOLOGY

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Introduction

The College of Science, Engineering and Technology is committed to implementing the University's urban mission and focusing its intellectual expertise, and other resources on improving the quality of life for students, the local, state, national and the global community. A fundamental objective of the College is the focus on quality instruction and engagement in research and experiential experiences. We believe such exposure embellishes the development of the skills and knowledge to prepare students for the workforce and/or graduate studies.

Mission

The mission of the College of Science, Engineering and Technology (CSET) at Jackson State University is to provide an innovative program of excellence in education, research, public and professional services at both the undergraduate and graduate levels. CSET promotes the production of highly competitive graduates as judged by the highest academic standards in the fields of science, technology, engineering, and mathematics (STEM). The College also endeavors to be recognized both nationally and internationally as preparers of outstanding men and women scientist. CSET is committed to implementing the University's mission to ensure that students are technologically advanced, ethical, global leaders who think critically and address societal problems and compete effectively.

Goals and Objectives

- To provide high quality, efficient and cost-effective STEM educational programs.
- To strengthen the research agenda of the College through faculty support, professional development, and student research/experiential initiatives.
- To provide high quality STEM outreach services to the local, state, national, and international community.

College Accreditations

- Chemistry (B.S.) – American Chemical Society
- Civil Engineering and Environmental (B.S.) - Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology, Inc.
- Computer Engineering (B.S.) - Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology, Inc.
- Computer Science (B.S.) - Computing Accreditation Commission of the Accreditation Board for Engineering and Technology, Inc.
- Electrical Engineering (B.S.) - Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology, Inc.
- Industrial Technology (B.S.) – Association of Technology, Management, and Applied Engineering

College Description

The College of Science, Engineering and Technology (CSET), comprised of 7 Departments including the Department of Aerospace Science (Air Force ROTC); Department of Biology; Department of Chemistry, Physics and Atmospheric Sciences; Department of Civil & Environmental Engineering and Industrial Systems & Technology; Department of Electrical & Computer Engineering and Computer Science; Department of Mathematics & Statistical Sciences; and Department of Urban & Regional Planning, is committed to producing highly competitive science, technology, engineering and mathematics (STEM) graduates.

CSET is constantly redefining itself and is confident that along with its dedicated faculty and staff, strong emphasis on research, continued commitment to recruiting highly motivated students and continued growth in new innovative programs, will have an inspiring effect on our graduates.

College Departments

- Department of Aerospace Science (Air Force ROTC)
- Department of Biology
- Department of Chemistry
- Physics and Atmospheric Sciences
- Department of Civil & Environmental Engineering and Industrial Systems & Technology
- Department of Electrical & Computer Engineering and Computer Science
- Department of Mathematics & Statistical Sciences
- Department of Urban & Regional Planning

Centers

Interdisciplinary Center for Nanotoxicity - The National Science Foundation-sponsored Interdisciplinary Center for Nanotoxicity (ICN) is an interdisciplinary initiative of researchers focused on the development and production of nanomaterials and investigations of their toxicity.

Institute for Multimodal Transportation -The Institute for Multimodal Transportation (IMTRANS) is an umbrella Institute to formally recognize the substantial Multimodal Transportation outreach, research, and education initiatives at JSU. IMTRANS currently includes the Mississippi Summer Transportation Institute (MSTI), Southeastern Transportation Research, Innovation, Development and Education (STRIDE) Center, and the Maritime Transportation Research and Education Center (MarTREC).

The National Institutes of Health Research Centers in Minority Institutions (NIH-RCMI)-Center for Health Disparities Research (CHDR). The Center for Health Disparities Research focuses on enabling JSU researchers to use innovative approaches for examining disease and developing novel prevention and treatment strategies for important health issues of concern to minorities and underserved communities.

Resources

The REGALS program supports the College in the achievement of developing and implementing strategic activities that enhance the successful matriculation and graduation of science, engineering, technology, and mathematics (STEM) students. The Scholars Academy Office is actively engaged in students' recruitment and retention, advising, tutoring, financial support, academic year research placement, and experiential learning through summer research internships. In addition, the Scholars Academy is also responsible for engaging STEM students

in clubs, organized seminars, distinguished speaker's series, workshops, conferences, science and engineering fairs, community services, students' organizations, and international programs. Furthermore, the Scholars Academy actively work with STEM students to develop their soft skills in the specific areas of learning style, time management, study habits, oral and poster presentation skills, and critical thinking skills. For more information, contact: (601) 979-1604.

- Department of Aerospace Studies (<https://jsu-public.courseleaf.com/undergraduate/college-science-engineering-technology/departament-aerospace-studies/>)
- Department of Biology (<https://jsu-public.courseleaf.com/undergraduate/college-science-engineering-technology/departament-biology/>)
- Department of Chemistry, Physics and Atmospheric Sciences (<https://jsu-public.courseleaf.com/undergraduate/college-science-engineering-technology/departament-chemistry-physics-atmospheric-sciences/>)
- Department of Civil and Environmental Engineering and Industrial Systems and Technology (<https://jsu-public.courseleaf.com/undergraduate/college-science-engineering-technology/departament-civil-environmental-engineering-industrial-systems-technology/>)
- Department of Electrical and Computer Engineering and Computer Science (<https://jsu-public.courseleaf.com/undergraduate/college-science-engineering-technology/departament-electrical-computer-engineering-computer-science+/>)
- Department of Mathematics and Statistical Sciences (<https://jsu-public.courseleaf.com/undergraduate/college-science-engineering-technology/departament-mathematics-statistical-sciences/>)