College Profile Summary

College of Engineering, Science, Technology, and Agriculture (CESTA)

Vision
To create an environment that is accessible to people and propels them to enhance discoveries through engineering, science, technology, and agriculture.

Leadership of 1890 Land-Grant Programs
• Michelle Corley, Ph. D., Dean of the College of Engineering, Science, and Technology and Director, 1890 Land-Grant Programs
• Associate Extension Administrator, Sid Dasgupta, Ph.D.
• Associate Director, Research, Subramania Sritharan, Ph.D., P.E.

Overview
The College of Engineering, Science, Technology, and Agriculture (CESTA) at Central State University offers degree programs in 10 critical areas of Basic and Applied Science, Technology, Engineering, and Mathematics. CESTA offers minors in many of these same programs as well as in interdisciplinary fields such as Environmental Science, Forensic Science, Computational Science, and Nuclear Engineering. CESTA is the critical hub for computer literacy, mathematics, and science requirements in the General Education component of all CSU programs. Unique to Ohio, CESTA offers an interdisciplinary degree program in Water Resources Management. Our Manufacturing Engineering and Environmental Engineering programs are accredited by the Accreditation Board for Engineering and Technology, Inc. (ABET).

Departments
• Agricultural and Life Sciences
• Manufacturing Engineering
• Mathematics and Computer Science
• Water Resources Management

Partners
• City of Trotwood
• Dayton Food Bank
• Montgomery County Environmental Services
• Ohio Ecological Farm Association
• Ohio Farm Bureau
• The Ohio State University-Extension
• Toledo YMCA
• USDA-NIFA
• Xenia Recreation, Education, Activity, Community, and Health (REACH) Center

Signature Programs for Recruitment and Retention
• REAP (High Schoolers)
• Seed-to-Bloom (Middle Schoolers)
• STEM X-Ed (CESTA Students)
• Verizon

Signature Research Programs
• Advanced Agricultural Technology
• Nutrition Health and Exercise
• Water Resources Management

Grants and Contracts
Over $4 million annually
Centers

- Center of Excellence in Emerging Technologies (CEET) -- a Center designated by the State of Ohio
- Center of Excellence of STEM Education (STEM-X-ED)
- International Center for Water Resources Management (CWRM)

Land-Grant Programs

CESTA administers the university’s Land-Grant programs. Our faculty, scientists, and engineers have excellent laboratories for instruction and research and train students in hands-on usage of advanced equipment. Our Land-Grant activities are integrated into every fabric of CESTA. Concepts in natural science, agriculture, mathematics, computer science, and engineering are employed to serve the needs of the agricultural community in the state of Ohio.

Our Cooperative Extension Service is developing partnerships with community-based organizations, townships and state organizations to help provide solutions to problems facing Ohioans. We are co-located with The Ohio State University Cooperative Extension Service, and in those counties where we are located together, we complement each other.

Many CESTA faculty are engaged in unique research activities for Federal agencies such as Air Force Research Laboratory (AFRL), National Aeronautics and Space Administration (NASA), National Science Foundation (NSF), Department of Energy (DoE), Department of Defense (DoD), National Institutes of Health (NIH), Agricultural Research Service, and National Institute of Food and Agriculture (NIFA), among other agencies.

Signature Majors

- Computer Science (Bachelor of Science)
- Environmental Engineering (Bachelor of Science)
- Exercise Science (Bachelor of Science)
- Industrial Technology (Bachelor of Science)
- Manufacturing Engineering (Bachelor of Science)
- Mathematics (Bachelor of Science)
- Sustainable Agriculture (Bachelor of Science)
- Water Resources Management (Bachelor of Science)

Accreditations

ABET for Manufacturing Engineering and Environmental Engineering.

Student Research

Our students are engaged in research at major universities, federal laboratories, and on-campus laboratories throughout the academic year and summer months. Student industrial internships are available. CESTA works closely with the Center for Student Opportunities in identifying scholarships, internships, and graduate school preparation courses as well as offering assistance with graduate school visits and placement.

Contact

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