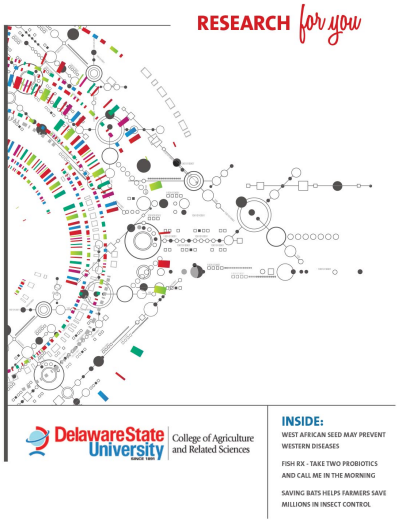
Cooperative Research

Research in the College of Agriculture and Related Sciences **[1] (CARS)** at Delaware State University encompasses the breadth of agriculture, natural resources and human ecology. The college is endowed with highly trained research faculty, of which more than 98% hold terminal degrees in their respective disciplines. CARS collaborates with both the public and private sectors, and with foundations in research partnerships that transcend the capability of any single academic institution.

COOPERATIVE RESEARCH NEWS

CARS publication showcases impact of research programs

Research for You is the latest magazine published by CARS. It showcases work of research faculty who investigate food, fiber and environmental issues affecting citizens of Delaware and the Delmarva region. The electronic copy is available here:



[2]

Staff Research Profile

Aquaculture and Water Quality **[3]**
Ecological connectivity forest ecology, and environmental stressors **[4]**
Food Microbiology & Food Safety **[5]**
Molecular Biotechnology Biofuels and Bio-Processing **[6]**
Molecular Genetics And Genomics **[7]**

CARS Faculty and their Research

CARS faculty engage in an array of research from molecular investigations in genomics to organismal research in plant and animal

sciences; from restoration of devastated habitats in the National Estuarine Research Reserve to mapping of Phragmites species in coastal Delaware; and from oyster restoration and water quality studies to tracking and ecobiology of marine and freshwater finfish in Delaware Bay.

The college is also well known for its agricultural mammal research, especially small ruminants, and it houses the only aquaculture research and demonstration facility in the State of Delaware. The Claude E. Phillips Herbarium [8], which is also housed in the College, is a revered resource for taxonomic classification of plant species, collection of rare and endangered species, and preservation and long term storage of plant species. It is one of the best herbaria in the United States and the largest at an HBCU.

CARS Facilities

CARS is endowed with resources and capabilities that promote a conducive environment for research. Research resources in the college include:

- 192-acre DSU Outreach and Research Center
- 75-acre Hickory Hill Farm
- The Claude E. Phillips Herbarium – Ranked 87th out of 535 (Index Herbarium) in the country with plant specimens dating back to 1799 and books dating back to 1737. It is also the only public herbarium on the Delmarva Peninsula.
- Aquaculture Research and Demonstration Center
- Microbial Safety of Aquaculture Products Center of Excellence
- Microbial Seafood Safety Laboratory – the only USDA-ARS lab of its kind in the country
- Scanning Electron Microscope
- Research Greenhouse
- Center for Integrated Biological and Environmental Research (CIBER)

Research projects in the College of Agriculture and Related Sciences can be categorized into five major broad areas:

- **Agricultural Research** [9]
- Aquaculture Research and Demonstration **[9]**
- **Natural Resources Research** [9]
- Food, Nutrition and Dietetic Research **[9]**
- Textile and Fashion Merchandising Research **[9]**

Source URL: http://desu.edu/agriculture-and-related-sciences/cooperative-research

Links
[1] http://www.desu.edu/agriculture-and-related-sciences/college-agriculture-related-sciences-0
[2] http://www.desu.edu/sites/default/files/u24/CARS_Research%20for%20You.pdf
[3] http://www.desu.edu/sites/default/files/u538/Ozbay_Research_2014%20copy.pdf
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[7] http://www.desu.edu/sites/default/files/u538/Kalavacharla_Research_2014%20copy.pdf
[8] http://herbarium.desu.edu/

[9] http://www.desu.edu/dsu-cooperative-research-focus-areas