



OVERVIEW

The College of Agriculture and Food Sciences (CAFS) is one of the world's leading institutions of its kind. Since its establishment, CAFS has evolved and continues to do so to meet the ever-changing needs of the food and agricultural industries. Our academic programs provide students with firsthand knowledge of the many facets in which the study of agriculture and food science encompasses, equipping them with the capabilities to tackle and eventually provide solutions to the challenges of the 21st century worldwide as it relates to global food security and fighting world hunger.

CORE COMPETENCIES/CAPABILITIES

- Artificial Intelligence applications in Modeling, simulation and automation of Food, Water and Energy Systems
- Provide educational support and programs for small-scale farmers and agribusinesses, agricultural and horticultural industries, families, individuals, youth and communities.
- Provide experiential learning for college and K-12 students in food and agricultural sciences.
- Grape Genetics and Breeding Program

DIFFERENTIATORS

- Leads the university in grants and contracts
- Lead institution or co-lead in each of its 1890 Centers of Excellence.
- Only college to have a graduate program in Entomology (joint Ph.D.) among 1890 Universities
- First in Florida and among the 1890 university system academic to offer a concentration in 'Grape and Wine Sciences' under B.S. degree in Agriculture Sciences
- Developed a method that is able to remove arsenate and arsenite from water to meet drinking water standard of $10 \mu\text{g L}^{-1}$
- Has one of the largest collections of aquatic insects in the world (more than 1,000,000 specimens)

PAST PERFORMANCE

- Development of biological control of the Vorroa mite and small-hive beetle to protect the honeybees that play a crucial role in pollinating the nation's fruits and vegetables
- Developed curriculum in Agricultural Sciences to address pressing issues relative to global climate change, along with issues that impact industry, workforce, communities and society in general.
- The Brooksville Agricultural Research and Environmental Station (BAERS) was successful in securing \$1.6 million in Florida Legislative Support (LBR) for its research and extension programs in 2021-2022.

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