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... functional genomics, gene silencing, recombinant DNA technology, RNA hybridization, gas chromatography-mass spectrometry, high performance liquid chromatography, and more.

Plant and Environmental Biotechnology (PEB) is a new interdisciplinary Bachelor of Science degree program designed to educate students in the exciting area of biotechnology, which promises to be the predominant science of the early 21st century. Students may choose from five specializations:

- **General Biotechnology**—allows students to take the maximum range of elective courses to obtain an overview of biotechnology applications.
- **Environmental and Microbial Biotechnology**—offers classes pertinent to monitoring and reducing chemical and microbial contaminants in the human environment.
- **Plant Biotechnology**—presents the methods and objectives of plant tissue culture and genetic modification for agricultural or industrial purposes.
- **Insect and Pathogen Biotechnology**—provides training in technologies that protect plants under human management from attack by insects or diseases.
- **Aquaculture and Bioreactor Biotechnology**—focuses on the design and operation of artificial environments for efficient production of high-value compounds and organisms.

Team up with Award-Winning Students...

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Open Doors to New Careers and Opportunities

All specialties prepare students for graduate school, and the general biotechnology option is specifically designed for students wishing to pursue professional school, such as teaching or medicine. The environmental and microbial biotechnology specialization prepares students for employment in environmental monitoring and natural environmental cleanup, or bioremediation. The plant biotechnology specialization prepares students to enter the agricultural biotechnology industries. The insect and pathogen biotechnology specialization prepares students to develop environmentally safe technologies to protect plants and agriculture from pest and pathogen attack. The aquaculture and bioreactor biotechnology specialization prepares students to participate in the increasingly technology-driven areas of bio-based industries such as aquaculture, marine biotechnology, and large-scale production of valuable organisms or biochemicals useful in the food, pharmaceutical, or medical industries.

For Fun and Friends

The College of Tropical Agriculture and Human Resources has numerous student organizations that provide you with the opportunity to meet new friends with interests similar to yours and participate in social, community-service, and field-related activities. Because this is a new undergraduate program, you might have the opportunity to help create a student organization designed especially for PEB majors.

Are You Prepared?

Students are strongly advised to be well grounded in science, especially chemistry and biology, and mathematics before entering the Plant and Environmental Biotechnology program. Upon entering the program, students will be assisted by academic advisors to identify their career objectives and select an appropriate specialization for study.

**We’re Here to Help**

Contact the Plant and Environmental Biotechnology Program
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