

LEADING THE WAY INTO THE 21ST CENTURY

Looking into the future, we know the "Sunshine State" must transform itself from a heavily service-based economy into a knowledge-based economy."

Ken Pruitt

Former Florida Senate President

The future for bioscience professions in CentralFlorida is bright, yet to staff the emerging research facilities, biotech companies, and hospitals of tomorrow, we'll need a skilled and eager workforce. The spark to pursue a career in science often begins with one teacher or one course that inspires and challenges a student to ask, "What if?"

Dr. Gregory Roth

Sanford Burnham

Florida has become one of the fastest growing states in the life sciences industry and is among the top 10 United States biotech centers, according to Ernst & Young. There are more than 120 biotechnology research and development companies in the state, excelling in the areas of biotechnology devices, diagnostics and therapeutics.

Governor Charlie Crist Press Office

The medical city will not only improve medical care in the region, it will make Central Florida a hub for high paying jobs. "It's just an almost unbelievable boom to this community so we are very excited about this,"

Dr. John Hitt

UCF President

MISSION STATEMENT

The Oviedo High School's Bioscience Technology Program will seek to excite, engage, and educate students through a cutting edge curriculum that will prepare them for the flourishing fields within Bioscience Technology.



CONTACT INFORMATION:

Oviedo High School
601 King Street Oviedo, FL 32765
Kathy Savage
Kathy_Savage@scps.k12.fl.us
407-320-4173

OVIEDO HIGH SCHOOL'S BIOSCIENCE TECHNOLOGY PROGRAM OF EMPHASIS

BIOSCIENCE TECHNOLOGY IS
WILD!

WHY BIOSCIENCE TECHNOLOGY?

Florida is one of the fastest growing biotech centers and is home to more than 9% of the nation's 1,450 bio tech firms including

- The Max Planck Institute of Bio-Imaging
- VGTI Florida (Vaccine and Gene Therapy Institute)
- Hussman Institute for Human Genomics
- Scripps Research Institute Florida
- Sanford Burnham Research Institute
- Torrey Pines Institute for Molecular Studies

Florida Ranks 3rd in the nation for its number of FDA recognized medical device establishments, trailing #2, New York, by a mere 6 companies.

Part of the Nation's 5th largest University, UCF College of Medicine houses the Burnett School of Biomedical Sciences which includes a research intensive medical school that ranges from laboratory "bench" science to patient bedsides.

The Central Florida Research Park at UCF is one of the countries top 10 research facilities Florida's High Tech Corridor employs more than 9,100 people with an average salary of nearly \$49,000 annually.

The Institute of Food and Agricultural Sciences at the University of Florida is the research and development center for the states natural resource industries that have in excess of a \$100 billion annual impact and is ranked #1 in the nation by the NSF.



WHAT IS BIOSCIENCE TECHNOLOGY?

Bioscience includes more than just biotechnology. It encompasses all branches of science dealing with the structure and behavior of living organisms. By understanding the function of living things products can be made or modified for a specific use to benefit society.

BIOSCIENCE TECHNOLOGY INCLUDES

- Medicine and Health
- Engineering and Manufacturing
- Marine Science
- Agriculture
- Research and Development
- Supplies and Services
- Business Development
- Legal- Patent and Business Law

WIDE RANGE OF JOB OPPORTUNITIES

- Medicine
- Veterinary Medicine
- Biology
- Chemistry
- Forensics
- Computer Science
- Engineering
- Law

BIOSCIENCE/BIOTECHNOLOGY PROGRAM STRANDS

9 th	Honors Biology/ AP Biology Honors Geometry	Standard Biology Algebra I
10 th	Honors Chemistry/ AP Chemistry Honors Algebra II	Standard Chemistry Geometry
	Honors Bioscience I	Biotechnology I
11 th	AP Bio/AP Chemistry/ Honors Physics Honors Pre-calculus	Standard Physics Algebra II
	Honors Bioscience II	Biotechnology II
12 th	AP Bio/AP Chemistry/ Honors Anatomy Calculus AB/Calculus BC	AP Bio/AP Chemistry/ Standard Anatomy Physiology College Algebra
	Honors Bioscience III — Including but not limited to Research Projects incorporating Independent Experimental Design and internship opportunities.	Biotechnology III —Including but not limited to Research Projects and Job Shadow Possibilities.

POSSIBLE BENEFITS TO PROGRAM

- University Entry Readiness into a Bioscience related career
- Articulation into an A.S. Degree/certification
- Entry Level Employment
- Industry Level Certification
- College Credit
- Dual Enrollment
- Use of state of the art laboratory equipment, procedures and techniques.
- Internships
- Job Shadows
- Research Experience

