

# LEADING THE WAY INTO THE 21<sup>ST</sup> 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?"

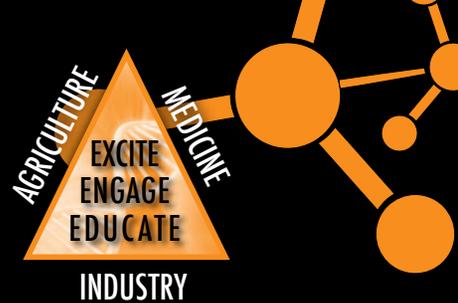
**Dr. Gregory Roth**  
Sanford Burnham

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



## ELIGIBILITY

As a Program of Emphasis, the Bioscience Technology Program is open to:

- Students zoned for Oviedo High School
- Students eligible for an approved Choices transfer option
- A limited number of 9th grade Program of Emphasis transfers

Please see the Choices website [www.seminoleschoolchoices.com](http://www.seminoleschoolchoices.com) for specific eligibility and application information.

## TRANSPORTATION

- Transportation to school is provided to eligible in-zone students living more than two miles from the school.
- No transportation is provided to eligible transfer students.

## SCHOOL BOARD MEMBERS

Karen Almond  
Tina Calderon  
Amy Lockhart  
Dede Schaffner

## SUPERINTENDENT

Dr. Walt Griffin

This program supported in part by



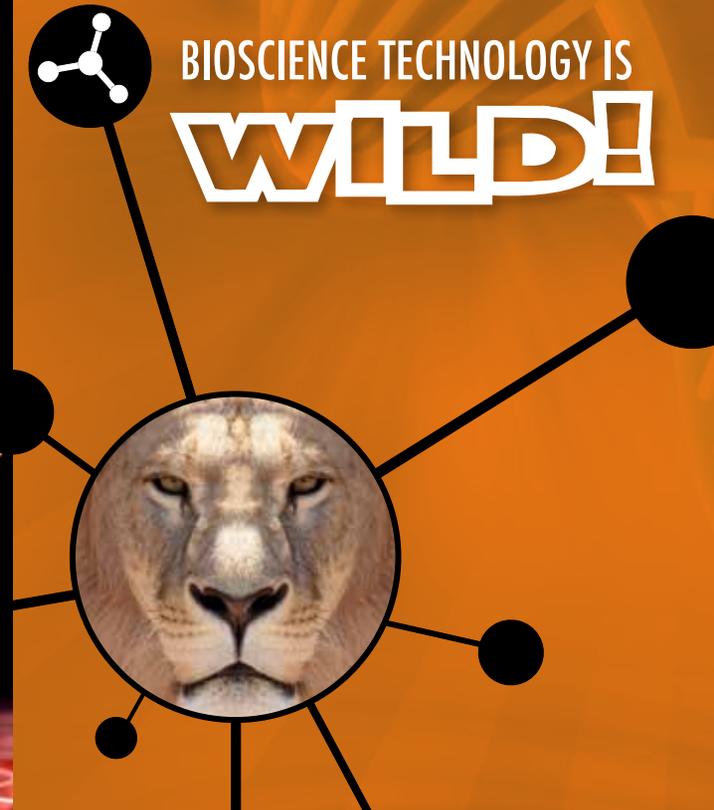
## CONTACT INFORMATION

Oviedo High School  
601 King Street  
Oviedo, FL 32765  
407-320-4050

# OVIEDO HIGH SCHOOL

## 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 RANKING

- Florida Ranks third in the nation for its number of FDA recognized medical device establishments, trailing number two New York, by a mere six companies.
- Part of the Nation's third 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 country's 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 TECHNOLOGY COURSE SEQUENCE

The Bioscience Technology courses are designed as predominately laboratory based with a focus on utilizing bioscience equipment such as thermocyclers, horizontal and vertical gel electrophoresis, micropipettes, spectrophotometers, centrifuges, and other advanced laboratory equipment currently used in the bioscience industry.

COURSE DESCRIPTION	PREREQUISITE / COREQUISITE
<b>BIOSCIENCE I HONORS</b> Bioscience I is a laboratory based course that focuses on introducing students to the basic lab techniques, equipment, critical thinking, work ethics, and communication skills currently used in the bioscience field.	<b>Prerequisite:</b> None  <b>Corequisite:</b> Students must be concurrently enrolled in Biology or have successfully completed Biology.  Any students interested in science are encouraged to enroll.
<b>BIOSCIENCE II HONORS</b> Bioscience II is a laboratory based course that provides an advanced foundation in the concepts, theories, and pioneering methods involved in micro and molecular based research in the bioscience field.	<b>Prerequisite:</b> Completion of Bioscience I Honors  <b>Corequisite:</b> See counselor for recommended science course.
<b>BIOSCIENCE III HONORS</b> Bioscience III is an advanced laboratory based research course that will apply the conceptual knowledge and practical skills learned in Bioscience I and II in order to research a bioscience problem.	<b>Prerequisite:</b> Completion of Bioscience II Honors  <b>Corequisite:</b> See counselor for recommended science course.

