

## Other Educational and Career OPPORTUNITIES



### **Florida Bright Futures Scholarship Program: Florida Academics, Florida Medallion and The Gold Seal Endorsement Program.**

The Gold Seal Scholarship focuses on students who have performed well in career preparatory programs. It recognizes and rewards excellence for academic achievement and career preparation.



**Career Pathways** is a high school applied technology program linked with a post secondary program which may lead to a certificate program, associate's degree, and/or bachelor's degree. Through applied academics and technical studies, the student will build his/her competencies in communication, mathematics and science.



**Dual Enrollment** students may earn free college credits and high school credits during their junior and/or senior year at St Johns River State College, Daytona State College or Santa Fe College. Students must meet the criteria of a 3.0 UGPA and have a college placement score (CPT/PERT, SAT, ACT) on file.

Check out these websites for more information

[www.putnamschools.org](http://www.putnamschools.org)  
[http://www.putnamschools.org/pages/Putnam\\_County\\_SD/Career\\_Counseling](http://www.putnamschools.org/pages/Putnam_County_SD/Career_Counseling)

# PCSD



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## PUTNAM COUNTY SCHOOL DISTRICT

# Biomedical Sciences



## Palatka High School

# Purpose

This program is designed to give students relevant curriculum through project based assignments. Examples include programming robotics and analyzing DNA samples. The projects involve real world challenges derived from many areas such as energy and the environment, housing and healthcare, and transportation and technology.

The program is collaborative and utilizes creative critical thinking. The focus is on a STEM (science, technology, engineering and mathematics) approach that will help students succeed in educational pursuits and a 21st century workplace.

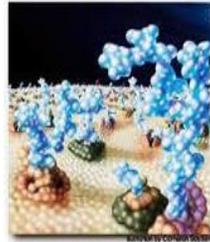
This Biomedical Science program offers students an array of advantages, from career readiness and hands-on experience, to college preparatory-level classes, labs and creative exercises.



# Course Sequence

## Principles of Biomedical Science (PBS)

Students investigate the human body and various health conditions including heart



disease, diabetes and other infectious diseases.

The activities and projects

introduce students to human physiology,

medicine, research processes and bioinformatics.

## Human Body Systems (HBS)

Students examine the interactions of body systems as they explore identity, communication, power, movement, protection and homeostasis. The students will be exploring science in action utilizing role playing as biomedical professionals to solve medical mysteries.

## Medical Interventions (MI)

This course is a “How-To” manual for maintaining overall health and homeostasis in the body as students explore: how to prevent, diagnose and treat

cancer; how to screen and evaluate the code of human DNA; and how to prevail when the organs of the body begin to fail. Lifestyle choices and preventive measures are emphasized throughout the course as well as the important roles scientific thinking and engineering design play in the development of medical interventions of the future.

## Biomedical Innovation (BI)

In this capstone course, students apply their knowledge and skills to answer questions or solve problems related to biomedical sciences. Students design innovative solutions for the health challenges of the 21st century as they work through progressively challenging



open-ended problems addressing topics such as clinical medicine and public health.

Throughout the course, students present their work to an adult audience that includes representatives from the local business and health care community.