

# Howard County Library System HiTech Classes



for Teens

AGES  
11 - 18



## JOIN US FOR SPRING BREAK!

All classes Monday through Friday, March 28 through April 1. Registration required for the following multi-session classes unless otherwise noted. Additional details at [hclibrary.org/hitech\\_events](http://hclibrary.org/hitech_events).



### Anatomy I

2 - 3:30 pm

Discover the gross anatomy of the human body. Learn about seven body systems that allow us function.

### Audio/Video Lab

3:30 - 5 pm

Drop in the Audio-Video lab to work on film and video projects, or write and produce music. No registration required.



### Computer Science Academy:

10 - 11:30 am

#### iOS Game Development

& 12 - 1:30 pm

Learn to develop 2D games for iOS using Xcode and SpriteKit. Work in teams to program a game. Grades 9-12 only.

### Dive into Chemistry!

12 - 1:30 pm

Struggling with chemistry? Review topics ranging from atomic and molecular structure to gas laws. Practice questions on the AP Chemistry exam and conduct experiments. Graphing calculators recommended. Grades 9-12 only.



### Histology

3:30 - 5 pm

Learn the different types of human tissues as you use a microscope, view slides, and determine the function and location of each tissue type.

### Hovercraft

3:30 - 5 pm

Learn how these vehicles defy gravity, then collaborate with other students to build a life-size, functional hovercraft.



flip over for more

**Infectious Disease Academy** 3:30 - 5 pm  
Explore how microorganisms can be harmful and helpful. Discover how disease detectives stop organisms from spreading. Learn how to properly handle, isolate and identify organisms using fun and safe techniques. Grades 6-8 only.

**Infectious Disease Academy: Epidemiology** 10 - 11:30 am  
Learn how infectious diseases spread, and how scientists stop them. Participate in mock disease outbreaks to isolate diseases, identify their cause, and handle them. Grades 9-12 only.

**Mechanics of Turbine** 12 - 1:30 pm  
Modern electric wind turbines come in different styles and sizes, depending on their use. Explore, design and construct a new type of turbine. Register for all five sessions. Registration required.

**The Modern Web** 2 - 3:30 pm  
Modern web design goes beyond static HTML. Server-side based content delivery focuses on delivering dynamic content to users "on the fly." Discover how PHP and Javascript are used to deliver "on demand" web pages on most web sites today. Grades 9-12 only.

**Movie Editing** 10 - 11:30 am  
Discover the world of post-production. Learn the skills of a film/video editor while acquiring an understanding of the technology involved with the profession. Edit video and audio using iMovie and Logic Pro X.

**The Science of Movie Making II: Anatomy of a Video Production** 12 - 1:30 pm  
Immerse into the world of digital production. Go beyond the basic workings of digital cameras and create a high quality movie. Focus on the practical use of technology used by professionals (Final Cut Pro X). Prerequisite: Students must have attended The Science of Movie Making I in order to qualify for class.

**Raspberry STEM** 10 - 11:30 am  
Experience using a hands-on platform for learning programming and electronics - no experience necessary!

**Robotics Challenge** 3:30 - 5 pm  
Work in teams to build and program Lego Mindstorms robots. Complete a variety of challenges to see whose robot is the best.

**Quadrotor** 10 - 11:30 am  
Investigate the physics of a quadrotor through hands-on learning, including multirotor liftoff, stabilization, flight direction, and aircraft landing. On Friday, flight test your team's quadrotor.

## REGISTER

All classes take place at HCLS Savage Branch.

Visit [hclibrary.org/hitech\\_events](http://hclibrary.org/hitech_events) or call 410.313.0760.