



**Science, Technology, Engineering, and Mathematics (STEM)  
SUMMER CAMPS 2009**

ARL (Applications and Research Lab) 10920 ROUTE 108, ELLICOTT CITY, MD 21042

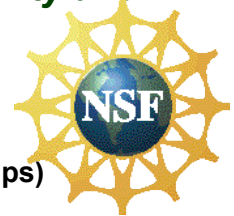
**You must provide your own transportation!**

Maximum enrollment: **18 students per class**—First come, first served

**Registration due by May 20, 2009**

**Course I: STEM Information Assurance, Information Security and  
Digital Forensics (IT)**

**Davina Pruitt-Mentle - NSF PI/YSP Coordinator**  
dpruitt@umd.edu - 410 531-3910  
and HCPSS teachers



**Cost: \$75 per student per course (includes registration and fieldtrips)**



**Date:** July 6, 2009 - July 24, 2009      **Time:** 8:00 AM - 1:00 PM

**Eligible students:** Rising 10<sup>th</sup> and 11<sup>th</sup> graders

**Course description:**

- Explore various modeling and simulation software packages
- Create an animated story and interactive Game/Maze with MicroWorlds
- Develop Interactive Educational Mini Simulations/Games with Excel and Star Logo
- Design, build, and program a cybernetic device with ROBOLAB
- Develop a computer animation using a 3D model
- Explore Digital Forensics Basics
- Visit NIST and NSA and the National Cryptologic Museum
- Hear from speakers from state and federal agencies and local security companies

**Supported by NSF CyberWATCH Grant**



**Course II: STEM Research and Biotechnology**

**Cost: \$75 per student per course (includes registration and supplies)**

**Date:** July 13, 2009 - July 17, 2009

**Time:** 8:00 AM - 12:00 PM

**Eligible students:** Rising 9th graders

**Course description:**

- Apply concepts of research and biotechnology
- Explore the research process
- Complete hands-on lab activities
- Design, and build a cooperative culminating project

**For More Information:**

STEM Office at ARL: 410-313-5326 OR

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