

UNH-Project SMART- 2009

(Science & Mathematics Achievement through Research Training)

July 6- 31, 2009

Hands-On Science Field trips Make Friends College credits

◆ **BIOTECHNOLOGY & NANOTECHNOLOGY** ◆ **SPACE SCIENCE**

◆ **MARINE & ENVIRONMENTAL SCIENCE**

What is Project SMART?

- § A Summer Program that will challenge, educate, and motivate you in science and mathematics
- § Expose you to advanced topics in science through **discussions, lectures, field trips, and research**
- § Train you in the **process of research** § Boost your interest and aptitude for learning science

Scholarships available

COST - \$2,150 - Includes boarding, lodging, and field trips + \$450 for weekends

DEADLINE: Rolling admission until March 31, 2009 – APPLY EARLY

2009 Program Details (Check: www.smart.unh.edu)



◆ **BIOTECHNOLOGY & NANOTECHNOLOGY** - Genes, genetics, genetic engineering; cloning of plants, animals and humans; genetically engineered organisms; genetic screening, gene therapy; stem cell research; biotechnology in agriculture, medicine and environment; patenting of living organisms. Nano-templates, microscopy of nano-structures, applications of nanotechnology, "Nano-fear", regulation and ethics of nanotechnology.



◆ **SPACE SCIENCE**

Study of high energy particles following a solar flare; ion acceleration at interplanetary disturbances; the Earth's bow shock; the outermost terrestrial boundary; a study of the impact of shocks on the magnetosphere; cosmic rays; Astrophysics



◆ **MARINE & ENVIRONMENTAL SCIENCE** – Exploring aquatic systems from White Mountains to Great Bay to the Isles of Shoals; observing behavior of marine life; analyzing lake water quality; toxic algal blooms; impact of global climate change on the aquatic food web; using GPS and Satellite Imagery to assess forest health; investigating altitudinal effects on forests, streams, and lakes; the causes of climate change and its impact on major ecosystems of New England.



For information and application forms, contact:

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