



**Summer 2005
July 10-29, 2005**



**EDUC 275
Students, Learning, and Technology:
Mindtools for Investigation and Education**

Three Week Residential Program --- Three Undergraduate Credits
Rising Juniors and Seniors

Explore and expand knowledge of essential 21st century skills (technology fluency and applications, team building, collaboration tools, problem based critical thinking), through gaming, modeling and simulation development, while investigating exciting careers that interconnect the fields of education and technology.

- Explore various modeling and simulation software packages (MicroWorlds, RoboLab, ICONS, Squeak, StarLogo)
- Create an Animated Story & Interactive Game/Maze with MicroWorlds
- Design Evaluation Criteria for Academic Simulations Through Wiki & Blogger Contributions
- Develop a Group Simulation with ICONS
- Develop an Interactive Educational Mini Simulations with Excel
- Participate in Robo Challenges
- Develop your own *Robo-Ed-U-Tech Invention*



For more about the course: syllabus, standards met, past products, course outline visit:

<http://www.edtechoutreach.umd.edu/CourseInfo/educ275.html>

Fields Trips:

- NIST
- NSA Cryptologic Museum
- National Center for Missing and Exploited Children
- Spy Museum
- Anthrotronix
- Wind Tunnel
- Neutral Buoyancy Lab

For More Information:

<http://www.summer.umd.edu/>
<http://www.edtechoutreach.umd.edu/>

Davina Pruitt-Mentle
301-405-8202
dp151@umail.umd.edu