

Mark your Calendar:

- **August 19:** DPS Secondary Science Institute Workshop
- **September 21:** Student application deadline
- **October 2:** Notifications sent
- **October 8:** Teacher workshop for prospective team advisors at Duke, 4:30-7:30pm

Schedule

Program will be held on Thursdays, 4:00-5:30pm at DSA.

10/15	Dead reckoning
10/22	Bumper cars
10/29	Line following
11/05	Speed line following
11/07	Science Day @ Duke
11/12	Following colors
11/19	Wall following
12/03	Exhibition Preparation
12/05	Exhibition

www.cs.duke.edu/robocup

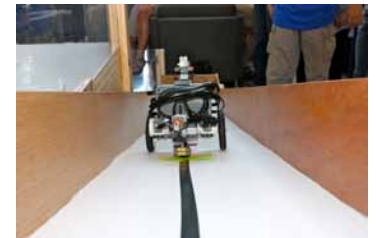


Special Thanks to:

- Burroughs-Wellcome Student Science Enrichment Program
- Duke University Service-Learning Program
- Duke-Durham Neighborhood Partnership
- DPS Office of the Superintendent
- Christine Fierro, Teacher, DSA



Duke/DPS After-school Robotics Program



FALL 2009
Applications due – Sept. 21

Registration & information:
<http://www.cs.duke.edu/robocup>

**All DPS middle and
high school students are
encouraged to apply.**

About the Program

After-school Sessions:

Weekly meetings at Durham School of the Arts with the assistance of Duke undergraduate student mentors. Teams of students work on LEGO robot challenges.

Topics include: programming, sensing, applied physics and simple machines, ratios and proportions, conversion of units, and technical literacy. Projects include dance, rescue, obstacle detection, robot racing, reacting to sound and other exhibitions throughout the year.

Science Days @ Duke:

Saturday and summer workshops where students work on robots and learn about research in science and technology from practitioners.

RoboCupJunior competitions:

Regional and international competitions where students participate in rescue and dance events and have the opportunity to observe and interact with research scientists and students from around the world.

RoboCupJunior 2007 Atlanta, USA



Two groups of students from Chewning Middle School and Durham School of the Arts participated in dance and rescue events as part of the RoboCupJunior International competition.

RoboCupJunior 2008 Suzhuo, China



Two students from Shepard Middle School won the RoboCup Junior Southeast Regional Rescue Competition at Duke and traveled to China to compete in the world finals.

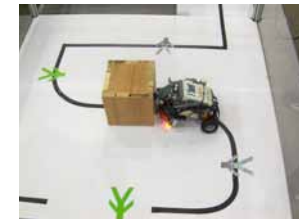
We look forward to working with you in the 2009-2010 school year and beyond!

What is RoboCupJunior?

Dance: Robots and students come together with music, dressed in costume and moving in creative harmony.



Rescue: Robots identify victims within simulated disaster scenarios, varying in complexity from line-following on a flat surface to negotiating paths through obstacles on uneven terrain.



Soccer: Two-on-two teams of robots play soccer by tracking a special light-emitting ball in an enclosed field with landmarks.

