



CANDO Robots Challenge Douglas, WY

DAY 1

- 9:00 – 9:30 Introduction & Criteria
- 9:30 – 11:30 Programming Instruction
- 11:30 – 12:30 Bring Sack Lunch
- 12:30 – 2:00 Engineering Instruction
- 2:00 – 3:30 Selection of Problem to be Solved

DAY 2 - 4

- 9:00 – 3:30 Independent Exploration & Creation

DAY 5

- 9:00 – 11:30 Independent Exploration & Creation
- 11:30 – 12:30 Bring Sack Lunch
- 12:30 – 2:30 Demonstration Preparations
- 2:30 – 3:30 Robot Creation Demonstrations – Parents Invited

8 Students Only

Students are encouraged to have attended three years of Robotz in Outer Space before moving on to the Robot Challenge.

Tools – 1 Per Student

1 Lego Mindstorms NXT Base Set

<http://www.legoeducation.com/store/detail.aspx?ID=1263&c=0&t=0&l=0>

1 Team Challenge Set

<http://www.legoeducation.com/store/detail.aspx?CategoryID=177&by=9&ID=327&c=1&t=0&l=0>

This is a very advanced class where students are required to be self-starters in creating their own designed robot in response to some perceived need in the world. Students will work on projects independent of other participants and instructed in engineering techniques, programming skills and problem solving. Students will be encouraged to work together as a team to brainstorm, encourage, share and understand the importance of team building.